N00207.AR.002625
NAS JACKSONVILLE
5090.3a

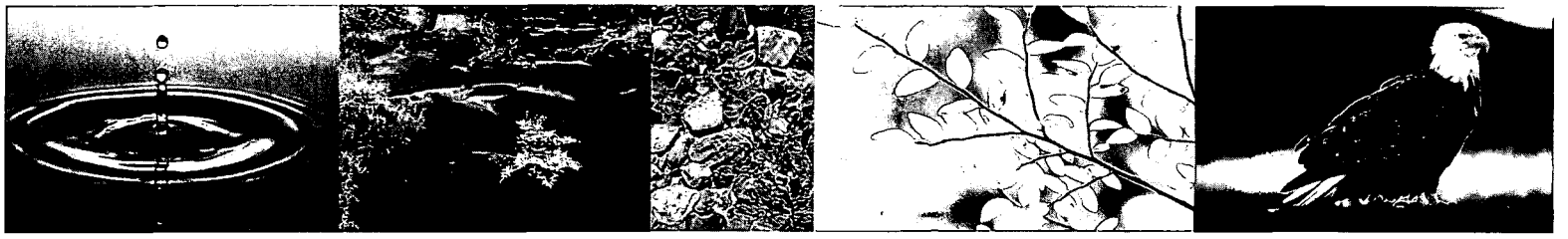
REMEDIAL INVESTIGATION AND FEASIBILITY STUDY FOR POTENTIAL SOURCE OF CONTAMINATION 47 (PSC47) NAS JACKSONVILLE FL

5/1/2007

TETRA TECH

Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62467-94-D-0888



ORIGINAL

Rev. 1
05/18/07

Remedial Investigation and Feasibility Study
for
Potential Source of Contamination 47

Naval Air Station Jacksonville
Jacksonville, Florida

Contract Task Order 0162

May 2007

NAVFAC
Naval Facilities Engineering Command
Southeast
2155 Eagle Drive
North Charleston, South Carolina 29406

TETRA TECH NUS, Inc.

Rev. 1
05/18/07

REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
FOR
POTENTIAL SOURCE OF CONTAMINATION 47

NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command
Southeast
2155 Eagle Drive
North Charleston, South Carolina 29406

Submitted by:
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, Pennsylvania 15220

CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0162

MAY 2007

PREPARED UNDER THE SUPERVISION OF:

MARK A. PETERSON, P.G.
TASK ORDER MANAGER
TETRA TECH NUS, INC.
JACKSONVILLE, FLORIDA

APPROVED FOR SUBMITTAL BY:

DEBRA M. HUMBERT
PROGRAM MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA

FOREWORD

In order to meet its mission objectives, the United States Navy (Navy) performs a variety of operations, some requiring the use, handling, storage, or disposal of hazardous materials. Through accidental spills, leaks, and conventional methods of past disposal, hazardous materials may have entered the environment in ways unacceptable by today's standards. With growing knowledge of the long-term effects of hazardous materials on the environment, the Department of Defense initiated various programs to investigate and remediate conditions related to suspect past releases of hazardous materials at their facilities.

One of these programs is the Navy and Marine Corps Installation Restoration Program (NIRP). This program complies with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA). The Acts, passed by Congress in 1980 and 1986, respectively, established the means to assess and cleanup hazardous waste sites for both private sector and federal facilities. These Acts are the basis for what is commonly known as the Superfund Program.

Originally, the Navy's part of this program was called the Navy Assessment and Control of Installation Pollutants (NACIP) Program. Early reports reflect the NACIP process and terminology. The Navy eventually adapted the program structure and terminology of the NIRP.

The NIRP is conducted in several stages:

- The Preliminary Assessment (PA) in which potential sites are identified through record searches and interviews.

- A Site Inspection (SI) in which areas containing contamination are confirmed, constituting actual sites. (Together, the PA and SI steps were called the Initial Assessment Study under the Navy's NACIP program.)

- A Remedial Investigation and Feasibility Study (RI/FS) in which the type and extent of contamination is determined, criteria for cleanup is established, remedial action alternatives are identified and evaluated, and cost estimates for each alternative are developed. As part of the RI/FS, a risk assessment will be made to identify potential effects on human health and the environment in order to help evaluate remedial action alternatives.

- The remedial design and remedial action in which the selected alternative is planned and conducted. Monitoring is then performed to evaluate the effectiveness of the selected alternative.

The investigation of potential hazardous waste sites at Naval Air Station (NAS) Jacksonville in Jacksonville, Florida is presently being conducted under the NIRP and follows CERCLA guidelines. Earlier preliminary investigations had been conducted at NAS Jacksonville under the Navy's NACIP program. In 1990, in coordination with the United States Environmental Protection Agency (USEPA) and the Florida Department of Environmental Protection (FDEP), the investigation of hazardous waste sites was formalized under a Federal Facilities Agreement (FFA).

NAS Jacksonville is conducting the investigation and cleanup of hazardous waste sites at their facility by working through the Naval Facilities Engineering Command, Southeast (NAVFAC SE). USEPA and the FDEP oversee the Navy environmental program. All aspects of the program are conducted in compliance with State and Federal regulations, as ensured by the participation of these regulatory agencies.

Questions regarding the NIRP Program at NAS Jacksonville should be addressed to Mr. Bill Raspet at (904) 542-4229.

TABLE OF CONTENTS

PROFESSIONAL ENGINEER AUTHORIZATION iii
FOREWORD v
ACRONYMS xiv

EXECUTIVE SUMMARY ES-1

1.0 INTRODUCTION 1-1
1.1 ORGANIZATIONAL STRUCTURE 1-1
1.2 PAST PRACTICES LEADING TO ESTABLISHMENT OF PSC 47 1-1
1.2.1 Pesticide Shop (Building 536) 1-1
1.2.2 DVECC (Building 937) 1-2
1.3 ASSESSMENT AND REMEDIAL ACTIONS PRIOR TO THE RI/FS 1-3
1.4 RI/FS SCOPE OF WORK AND OBJECTIVES 1-3
1.4.1 Phase I Field Activities 1-3
1.4.2 Phase II Field Investigation 1-6
1.4.3 Phase III Field Investigation 1-7
1.4.4 Objectives of the RI/FS 1-8
1.5 REPORT SCOPE AND ORGANIZATION 1-8

2.0 SITE BACKGROUND 2-1
2.1 SITE CHARACTERIZATION 2-1
2.1.1 NAS Jacksonville Location and Description 2-1
2.1.2 NAS Jacksonville History 2-4
2.1.3 PSC 47 Location and Site Description 2-4
2.2 ENVIRONMENTAL SETTING 2-6
2.2.1 Geography, Demographics, and Land Use 2-6
2.2.2 Physiography and Topography 2-7
2.2.3 Climate 2-7
2.2.4 Soil 2-9
2.2.5 Regional Geology 2-9
2.2.6 Site Specific Geology 2-9
2.2.7 Regional Hydrology 2-12
2.2.8 Site Hydrology 2-14

3.0 PREVIOUS SITE INVESTIGATIONS AND REMEDIAL ACTIONS 3-1
3.1 REMEDIATION WORK PLAN DVECC USED OIL TANK REMOVAL, BEI (SEPTEMBER 1995) 3-1
3.2 TANK CLOSURE REPORT, RUST (JANUARY 1996) 3-1
3.3 DVECC RCRA FACILITY INVESTIGATION, BRE (JANUARY 1997) 3-2
3.4 RCRA APPLICATION FOR CLOSURE PERMIT, HRP SPECTRUM (HRP) (SEPTEMBER 1998) 3-3
3.5 SAMPLING EVENT REPORT, HARDING LAWSON ASSOCIATES (HLA) (FEBRUARY 1999) 3-7
3.5.1 Soil Analytical Results 3-7
3.5.2 Groundwater Analytical Results 3-8
3.6 SOIL REMOVAL AT PSC 47 PESTICIDE SHOP (BEI, 1999) 3-9
3.7 PRELIMINARY ASSESSMENT 3-9
3.7.1 Surface Water 3-9
3.7.2 Sediment 3-10
3.7.3 Soil 3-10
3.7.4 Groundwater 3-10
3.8 RI ASSESSMENT ACTIVITIES 3-11

4.0 RI/FS FIELD ACTIVITIES 4-1
4.1 RI/FS APPROACH 4-1
4.2 RI FIELD ACTIVITIES 4-2

4.2.1 Phase I Investigation 4-7
4.2.2 Phase II Investigation 4-10
4.2.3 Phase III Investigation 4-21

5.0 NATURE AND EXTENT OF CONTAMINATION 5-1
5.1 SOURCES OF CONTAMINATION 5-1
5.2 BACKGROUND SCREENING CONCENTRATIONS 5-2
5.3 CONTAMINATION ASSESSMENT 5-2
5.3.1 Soil Quality Assessment 5-3
5.3.2 Groundwater Quality Assessment 5-31
5.4 DISCUSSION OF RI RESULTS 5-113
5.4.1 Soil 5-123
5.4.2 Groundwater 5-124

6.0 CHEMICAL FATE AND TRANSPORT ANALYSIS 6-1
6.1 CHEMICAL AND PHYSICAL PROPERTIES IMPACTING FATE AND TRANSPORT 6-1
6.1.1 Specific Gravity 6-6
6.1.2 Vapor Pressure 6-6
6.1.3 Water Solubility 6-6
6.1.4 Octanol/Water Partition Coefficient 6-7
6.1.5 Organic Carbon Partition Coefficient 6-7
6.1.6 Henry's Law Constant 6-7
6.1.7 Bioconcentration Factor 6-7
6.1.8 Distribution Coefficient 6-8
6.1.9 Mobility Index 6-8
6.2 CONTAMINANT TRANSPORT PATHWAYS 6-9
6.2.1 Leaching of Soil Contaminants to Groundwater 6-10
6.2.2 Migration of Groundwater Contaminants 6-10
6.2.3 Volatilization from Soil 6-11
6.2.4 Volatilization from Groundwater 6-11
6.2.5 Erosion and Runoff of Contaminated Particles from Soil 6-11
6.3 CHEMICAL FATE (PERSISTENCE) AND MIGRATION 6-12
6.3.1 Monocyclic Aromatics 6-12
6.3.2 Halogenated Aliphatics 6-13
6.3.3 PAHs 6-15
6.3.4 Phthalate Esters 6-17
6.3.5 Pesticides and Herbicides 6-18
6.3.6 Metals 6-22
6.4 BIODEGRADATION AND NATURAL ATTENUATION AT PSC 47 6-22
6.4.1 Northern Plume 6-22
6.4.2 Southern Plume 6-26
6.5 CONCEPTUAL MODEL OF CONTAMINANT MIGRATION 6-28
6.5.1 Northern Plume 6-28
6.5.2 Southern Plume 6-28

7.0 BASELINE HUMAN HEALTH RISK ASSESSMENT 7-1
7.1 DATA EVALUATION 7-2
7.1.1 Data Usability 7-2
7.1.2 Selection of COPCs 7-4
7.2 EXPOSURE ASSESSMENT 7-23
7.2.1 Conceptual Site Model 7-27
7.2.2 Potential Current and Future Receptors of Concern and Exposure Pathways 7-29
7.2.3 Exposure Point Concentrations 7-30
7.2.4 Quantification of Exposure 7-33
7.3 TOXICITY ASSESSMENT 7-47
7.3.1 Sources of Toxicity Criteria 7-47
7.3.2 Toxicity Criteria for Dermal Exposures 7-50

7.3.3 Toxicity Criteria for TCE 7-58
7.4 RISK CHARACTERIZATION 7-58
7.4.1 Risk Estimation Methods 7-58
7.4.2 Comparison of Quantitative Risk Estimates to Benchmarks 7-59
7.4.3 Results of the Risk Characterization 7-59
7.5 UNCERTAINTY ANALYSIS 7-67
7.5.1 Uncertainty in Selection of COPCs 7-68
7.5.2 Uncertainty in the Exposure Assessment 7-69
7.5.3 Uncertainty in the Toxicological Evaluation 7-70
7.5.4 Uncertainty in the Risk Characterization 7-72
7.6 REMEDIAL GOAL OPTIONS 7-72
7.7 SUMMARY OF HHRA 7-73

8.0 ECOLOGICAL RISK ASSESSMENT 8-1
8.1 SCREENING-LEVEL PROBLEM FORMULATION 8-1
8.1.1 Environmental Setting 8-1
8.1.2 Contaminant Fate and Transport 8-2
8.1.3 Ecotoxicity and Potential Receptors 8-4
8.1.4 Complete Exposure Pathways 8-5
8.1.5 Preliminary Assessment and Measurement Endpoints 8-6
8.2 SCREENING-LEVEL ECOLOGICAL EFFECTS EVALUATION 8-7
8.3 SCREENING-LEVEL EXPOSURE ESTIMATE 8-7
8.4 SCREENING-LEVEL RISK CALCULATION 8-7
8.5 REFINEMENT OF PRELIMINARY COPCS 8-8
8.5.1 Results of Food-Chain Modeling 8-11
8.5.2 Step 3a Discussion 8-11
8.6 UNCERTAINTY 8-15
8.6.1 Uncertainty in the Problem Formulation 8-17
8.6.2 Uncertainty in the Ecological Effects Characterization 8-17
8.6.3 Uncertainty in the Exposure Assessment 8-18
8.6.4 Uncertainty in the Risk Characterization 8-18
8.7 SUMMARY AND CONCLUSIONS 8-19

9.0 REMEDIAL ACTION OBJECTIVES AND GENERAL RESPONSE ACTIONS 9-1
9.1 REMEDIAL ACTION OBJECTIVES 9-1
9.1.1 Statement of RAOs 9-1
9.1.2 ARARs and TBC Criteria 9-2
9.1.3 Media of Concern 9-4
9.1.4 Chemicals of Concern for Remediation 9-4
9.2 PRELIMINARY REMEDIATION GOALS 9-9
9.2.1 PRGs for Soil 9-9
9.2.2 PRGs for Groundwater 9-10
9.3 GRAS AND ACTION SPECIFIC ARARS 9-11
9.3.1 GRAs 9-11
9.3.2 Action-Specific ARARs 9-12
9.4 ESTIMATED VOLUMES OF CONTAMINATED MEDIA 9-12
9.4.1 Estimated Volumes of Contaminated Soil 9-12
9.4.2 Estimated Volume of Contaminated Groundwater 9-17

10.0 SCREENING OF REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS 10-1
10.1 PRELIMINARY SCREENING OF SOIL REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS 10-2
10.2 DETAILED SCREENING OF SOIL REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS 10-6
10.2.1 No Action 10-6
10.2.2 Limited Action 10-7
10.2.3 Containment 10-8

10.2.4 Removal 10-9
10.2.5 Ex-Situ Treatment 10-10
10.2.6 Disposal 10-14
10.3 SELECTION OF SOIL REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS 10-16
10.4 PRELIMINARY SCREENING OF GROUNDWATER REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS 10-16
10.5 DETAILED SCREENING OF GROUNDWATER REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS 10-21
10.5.1 No Action 10-21
10.5.2 Limited Action 10-22
10.5.3 Removal 10-27
10.5.4 In-Situ Treatment 10-29
10.5.5 Ex-Situ Treatment 10-32
10.5.6 Disposal 10-32
10.6 SELECTION OF GROUNDWATER REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS 10-33

11.0 ASSEMBLY AND DETAILED ANALYSIS OF REMEDIAL ALTERNATIVES 11-1
11.1 INTRODUCTION 11-1
11.1.1 Evaluation Criteria 11-1
11.1.2 Relative Importance of Criteria 11-5
11.1.3 Selection of Remedy 11-5
11.2 DEVELOPMENT OF SOIL ALTERNATIVES 11-6
11.2.1 Alternative S-1: No Action 11-6
11.2.2 Alternative S-2: Capping To Allow Industrial Use and Prevent Leaching, LUCs, and Monitoring 11-8
11.2.3 Alternative S-3: Excavation and Off-Site Disposal to Allow Industrial Use, Capping to Prevent Leaching, LUCs, and Monitoring 11-14
11.2.4 Alternative S-4: Excavation and Off-Site Disposal To Allow Residential Exposure and Prevent Leaching 11-19
11.3 DEVELOPMENT OF GROUNDWATER REMEDIAL ALTERNATIVES 11-23
11.3.1 Alternative GW-1 - No Action 11-24
11.3.2 Alternative GW-2: Monitored Natural Attenuation and LUCs 11-25
11.3.3 Alternative GW-3A: Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored Natural Attenuation, and LUCs 11-28
11.3.4 Alternative GW-3B: Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored Natural Attenuation, and LUCs 11-32

12.0 COMPARATIVE ANALYSIS OF REMEDIAL ALTERNATIVES 12-1
12.1 COMPARISON OF SOIL REMEDIAL ALTERNATIVES BY CRITERIA 12-1
12.1.1 Overall Protection of Health and Environment 12-1
12.1.2 Compliance with ARARs and TBCs 12-2
12.1.3 Long-term Effectiveness and Permanence 12-2
12.1.4 Reduction of Toxicity, Mobility, or Volume through Treatment 12-3
12.1.5 Short-term Effectiveness 12-3
12.1.6 Implementability 12-4
12.1.7 Cost 12-4
12.2 PREFERRED SOIL REMEDIAL ALTERNATIVES 12-5
12.3 COMPARISON OF GROUNDWATER REMEDIAL ALTERNATIVES BY CRITERIA 12-5
12.3.1 Overall Protection of Human Health and the Environment 12-5
12.3.2 Compliance with ARARs and TBCs 12-8
12.3.3 Long-Term Effectiveness and Permanence 12-8
12.3.4 Reduction of Toxicity, Mobility, or Volume through Treatment 12-9
12.3.5 Short-Term Effectiveness 12-9
12.3.6 Implementability 12-10
12.3.7 Cost 12-11

12.4 PREFERRED GROUNDWATER REMEDIAL ALTERNATIVES 12-11

REFERENCES R-1

APPENDICES

A LITHOLOGIC BORING LOGS A-1
B DOCUMENTATION OF SLUG TESTS CONDUCTED AT PSC 47 ..... B-1
C ILLUSTRATIONS FROM HISTORICAL DOCUMENTS C-1
D LABORATORY ANALYSES PERFORMED ON SOIL AND GROUNDWATER SAMPLES D-1
E SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS E-1
E.1 SOIL BORING LOGS
E.2 MONITORING WELL CONSTRUCTION DIAGRAMS
F MONITORING WELL DEVELOPMENT RECORDS F-1
G SOIL SAMPLING DATA SHEETS G-1
H GROUNDWATER SAMPLING LOGS AND LOW FLOW PURGE SHEETS H-1
I MOBILE LABORATORY ANALYTICAL RESULTS – PHASE I RI I-1
J FIXED-BASE LABORATORY ANALYTICAL REPORTS – J-1
J.1 PHASE I
J.2 PHASE II
J.3 PHASE III
K SUPPORTING INFORMATION HUMAN HEALTH RISK ASSESSMENT K-1
K.1 SAMPLE CALCULATIONS
K.2 RAGS PART D TABLES
K.3 ProUCL PRINTOUTS
K.4 VAPOR INTRUSION MODELING OUTPUTS
L RISK ASSESSMENT METHODS L-1
M CALCULATIONS AND COST ESTIMATES M-1

TABLES

NUMBER **PAGE**

1-1 Summary of Source Removal Actions, Assessment Activities, and Remedial Measures 1-4
4-1 Summary of Assessment Activities Performed During RI 4-3
4-2 Monitoring Well Construction Details 4-16
4-3 Water Table Elevation Data 4-17
5-1 Summary of Detected Pesticide Concentrations in Soil Samples 5-5
5-2 Summary of Detected VOC and SVOC Concentrations in Soil Samples 5-24
5-3 Soil SPLP Data 5-32
5-4 Summary of Detected Pesticide Concentrations in Groundwater Samples-Phase I 5-45
5-5 Summary of Detected VOCs in Groundwater-Phase I 5-65
5-6 Summary of Detected SVOCs in Groundwater-Phase I 5-75
5-7 Summary of Detected Dioxins and Herbicides in Groundwater-Phase I 5-80
5-8 Summary of Detected Pesticides in Groundwater 5-81
5-9 Summary of VOC Detections in Groundwater 5-89
5-10 Summary of SVOC Detections in Groundwater 5-97
5-11 Summary of Detected Herbicides in Groundwater 5-103
5-12 Summary of Detected TAL Metals in Groundwater 5-106
5-13 Summary of Arsenic in Groundwater 5-111
5-14 Field Results for Natural Attenuation 5-115
5-15 Laboratory Analytical Results for Natural Attenuation 5-119
6-1 Environmental Fate and Transport parameters for Organic Chemicals 6-2
6-2 Relative Mobilities of Inorganics as a Function of Environmental Conditions (Eh, pH) 6-5

TABLES (CONTINUED)

NUMBER **PAGE**

6-3 Summary of Contaminant Concentrations in Groundwater Over Time 6-23
7-1 Screening Criteria Used in Selection of COPCs-Soil 7-7
7-2 Screening Criteria Used in Selection of COPCs-Groundwater 7-9
7-3 Occurrence, Distribution, and Selection of COPCs-Surface Soil-Direct Contact Exposures 7-11
7-4 Occurrence, Distribution, and Selection of COPCs-Surface Soil-Migration to Groundwater 7-13
7-5 Occurrence, Distribution, and Selection of COPCs-Subsurface Soil-Direct Contact Exposures 7-16
7-6 Occurrence, Distribution, and Selection of COPCs-Subsurface Soil-Migration to Groundwater 7-18
7-7 Occurrence, Distribution, and Selection of COPCs-Groundwater-Direct Contact Exposures 7-20
7-8 Occurrence, Distribution, and Selection of COPCs-Groundwater-Vapor Intrusion 7-24
7-9 Chemicals Retained as COPCs 7-26
7-10 Selection of Exposure Pathways 7-31
7-11 Exposure Point Concentrations 7-34
7-12 Summary of Exposure Input Parameters 7-35
7-13 Parameters for Evaluation of Dermal Contact with Soil/Groundwater 7-43
7-14 Chemical Properties for Volatilization from Groundwater to Outdoor Air Model 7-48
7-15 Input Parameters for Vapor Intrusion Model 7-49
7-16 Non-Cancer Toxicity Data – Oral/Dermal 7-51
7-17 Non-Cancer Toxicity Data – Inhalation 7-52
7-18 Cancer Toxicity Data – Oral/Dermal 7-54
7-19 Cancer Toxicity Data – Inhalation 7-56
7-20 Summary of Cancer Risks and Hazard Indices-Reasonable Maximum Exposures 7-60
7-21 Chemicals Retained as Chemicals of Concern 7-64
7-22 Remedial Goal Options for Soil 7-74
7-23 Remedial Goal Options for Groundwater 7-76
8-1 Selection of Ecological COPCs for Surface Soil 8-9
8-2 Terrestrial Wildlife Model – Maximum HQs 8-12
8-3 Terrestrial Wildlife Model – Average HQs 8-13
9-1 Federal Chemical-Specific ARARs and TBCs 9-5
9-2 State Chemical-Specific ARARs and TBCs 9-6
9-3 Federal Location-Specific ARARs and TBCs 9-7
9-4 State Location-Specific ARARs and TBCs 9-8
9-5 Synopsis of Federal Action-Specific ARARs and TBCs 9-13
9-6 Synopsis of State Action-Specific ARARs and TBCs 9-15
10-1 Preliminary Screening of Soil Remediation Technologies and Process Options 10-3
10-2 Preliminary Screening of Groundwater Remediation Technologies and Process Options 10-17
12-1 Summary Comparative Analysis of Soil Remedial Alternatives 12-5
12-2 Summary Comparative Analysis of Groundwater Remedial Alternatives 12-12

FIGURES

NUMBER **PAGE**

2-1 Regional Location Map 2-2
2-2 Site Location Map 2-3
2-3 Site Map 2-5
2-4 Topographic Map 2-8
2-5 Site Geologic Profile A-A' 2-10
2-6 Site Geologic Profile B-B' 2-11
2-7 Groundwater Elevation Contour Map Shallow Zone, April 12, 2002 2-15
2-8 Groundwater Elevation Contour Map Shallow Zone, July 15, 2003 2-16
2-9 Groundwater Elevation Contour Map Shallow Zone, November 27, 2006 2-17
2-10 Groundwater Elevation Contour Map Deep Zone, April 12, 2002 2-18
2-11 Groundwater Elevation Contour Map Deep Zone, July 15, 2003 2-19
2-12 Groundwater Elevation Contour Map Deep Zone, November 27, 2006 2-20
4-1 Phase I DPT Boring Locations and Groundwater Sampling Depths 4-9
4-2 Soil Sample Locations and Depths 4-11
4-3 Monitoring Well Location Map 4-13
4-4 Monitoring Well Construction Diagrams 4-15
4-5 Soil Sample Location Map 4-23
5-1 Exceedances of Residential SCTLs in Surface Soil 5-20
5-2 Exceedances of Industrial SCTLs in Surface Soil 5-21
5-3 Exceedances of Leachability SCTLs in Surface Soil 5-22
5-4 Exceedances of Residential SCTLs in Subsurface Soil 5-27
5-5 Exceedances of Industrial SCTLs in Subsurface Soil 5-28
5-6 Exceedances of Leachability SCTLs in Subsurface Soil 5-29
5-7 Pesticide Concentrations Exceeding FDEP GCTLs (Mobile Laboratory Phase I) 5-62
5-8 Pesticide Concentrations Exceeding FDEP GCTLs (Fixed-Base Laboratory Phase I) 5-63
5-9 VOC/SVOC Concentrations Exceeding FDEP GCTLs in Phase I Groundwater Samples 5-76
5-10 Exceedances of Pesticides in Groundwater 5-86
5-11 Exceedances of VOCs and SVOCs in Groundwater 5-100
5-12 Exceedances of Arsenic in Groundwater 5-114
7-1 Summary of Human Health Risk Assessment Process 7-3
7-2 Conceptual Site Model 7-28
8-1 Constituent Concentrations Exceeding Ecological Screening Values - Surface Soil 8-16
9-1 Extent of Surface Soil Exceeding PRGs 9-19
9-2 Extent of Subsurface Soil Exceeding PRGs 9-20
9-3 Extent of Surface Soil Exceeding Industrial and Leachability SCTLs 9-21
9-4 Extent of Subsurface Soil Exceeding Industrial and Leachability SCTLs 9-22
9-5 Extent of Groundwater Exceeding PRGs 9-23
11-1 Alternatives S-2 and S-3: Extent of Site Preparation Excavation 11-10
11-2 Alternative S-2: Extent of Capping 11-11
11-3 Alternative S-3: Extent of Subsurface Soil Excavation and Capping 11-16
11-4 Alternative S-4: Extent of Surface Soil Excavation 11-20
11-5 Alternative S-4: Extent of Subsurface Soil Excavation 11-21
11-6 Alternative GW-3A: Northern Plume Enhanced In-Situ Bioremediation System 11-29
11-7 Alternative GW-3B: Southern Plume Arsenic Hot Spot In-Situ Chemical Oxidation and Precipitation System 11-34

ACRONYMS

2,4-D	2,4-Dichlorophenoxyacetic Acid
2,4,5-T	2,4,5-Trichlorophenoxyacetic acid
2,4,5-TP	2,4,5-trichlorophenoxypropionic acid (Silvex)
ABB-ES	ABB Environmental Services
ABS	Absorption Efficiency
ACH	Air Changes per Hour
ARAR	Applicable or Relevant and Appropriate Requirement
AS	Air Sparging
AS^{3+}	Trivalent Arsenic
AS^{5+}	Pentavalent Arsenic
AST	Aboveground Storage Tank
ATI	Ambient Technologies, Inc.
ATSDR	Agency for Toxic Substances and Disease Registry
AWQC	Ambient Water Quality Criteria
BaPEq	Benzo(a)pyrene Equivalent
BCF	Bioconcentration Factor
BEHP	bis(2-ethylhexyl) phthalate
BEI	Bechtel Environmental, Inc.
BHC	Hexachlorocyclohexane (Lindane)
bls	Below Land Surface
BOD`	Biochemical Oxygen Demand
BRE	Brown and Root Environmental, Inc.
BTEX	Benzene, Toluene, Ethylbenzene, Total Xylenes
BW	Body Weight
°C	Degrees Celsius
CAA	Clean Air Act
CA EPA	California Environmental Protection Agency
CCTL	Clean Closure Target Level
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CF	Conversion Factor
CFR	Code of Federal Regulations
CKD	Cement Kiln Dust
cm	Centimeter
cm^2	Centimeters Squared
cm/sec	Centimeters per Second
CO2	Carbon Dioxide

ACRONYMS (Continued)

COC	Contaminant of Concern
COD	Chemical Oxygen Demand
CompQAP	Comprehensive Quality Assurance Plan
COPC	Constituent of Potential Concern
CSF	Cancer Slope Factor
CSM	Conceptual Site Model
CTL	Cleanup Target Level
CTO	Contract Task Order
CWA	Clean Water Act
days/year	Days per Year
DCE	Dichloroethene
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichlorethylene
DDT	2,2'-Bis(p-chlorophenyl)-1,1,1-trichloroethane
DON	Department of Navy
DOT	Department of Transportation
DPT	Direct Push Technology
DQO	Data Quality Objective
DVECC	Disease Vector Ecology and Control Center
EC	Engineering Control
ED	Exposure Duration
EF	Exposure Frequency
Eh	Oxidation Reduction Potential of Groundwater
ENCO	Environmental Conservation Laboratories, Inc.
EPC	Exposure Point Concentration
ERA	Ecological Risk Assessment
ESV	Ecological Screening Values
ET	Exposure Time
EV	Event Frequency
°F	Degree Fahrenheit
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FFA	Federal Facilities Agreement
FI	Fraction Ingested from Contaminated Source
FID	Flame Ionization Detector

ACRONYMS (Continued)

f_{oc}	Organic Carbon
FS	Feasibility Study
ft	Feet or Foot
ft^2	square feet
ft^3	cubic feet
ft/day	Feet (or Foot) Per Day
ft/yr	Feet (or Foot) Per Year
GAC	Granulated Activated Carbon
GCTL	Groundwater Cleanup Target Level
GGC	Groundwater Guidance Concentration
gpm	Gallons per Minute
GRA	General Response Action
HEAST	Health Effects Assessment Summary Tables
Hg	Mercury
HHRA	Human Health Risk Assessment
HI	Hazard Index
HLA	Harding Lawson Associates
HQ	Hazard Quotient
HRC	Hydrogen Releasing Compound
HRP	HRP Spectrum
HSA	Hollow Stem Auger
HSWA	Hazardous and Solid Waste Amendment
IC	Institutional Control
ICR	Incremental Cancer Risk
ILCR	Incremental Lifetime Cancer Risk
IR	Installation Restoration
IRIS	Integrated Risk Information System
k	Hydraulic Conductivity
K_d	Distribution Coefficient
kg/mg	Kilograms per Milligram
K_{oc}	Organic Carbon Partition Coefficient
K_{ow}	Octanol/Water Partition Coefficient
LDR	Land Disposal Restrictions
LOAEL	Lowest-Observed-Adverse-Effect-Level
LTTD	Low Temperature Thermal Desorption
LUC	Land Use Control

ACRONYMS (Continued)

M^3	Cubic Meters
MCL	Maximum Contaminant Level
MCPA	2-Methyl-4-chlorophenoxy acetic acid
MCPP	2-(2 methyl-4-chlorophenoxy)propionic acid
mg/cm^2	Milligrams per Centimeters Squared
mg/kg	Milligrams per Kilogram
mg/kg/day	Milligrams per Kilograms per Day
mg/L	Milligrams per Liter
mg/µg	Milligrams per Micrograms
MI	Mobility Index
mm	Millimeter
MMA	Monomethylarsenate
MRC	Metal Removal Compound
MRL	Minimal Risk Level
msl	Mean Sea Level
MS/MSD	Matrix Spike/Matrix Spike Duplicate
mV	Millivolts
NAAQS	National Ambient Air Quality Standards
NACIP	Navy Assessment and Control of Installation Pollutants
NADSC	Natural Attenuation Default Source Concentrations
NAS	Naval Air Station
NAT	Naval Aviation Trades
NAVFAC SE	Naval Facilities Engineering Command, Southeast
Navy	United States Navy
NCEA	National Center for Environmental Assessments
NCP	National Oil and Hazardous Substances Contingency Plan
NFA	No Further Action
NESHAP	National Emission Standards for Hazardous Air Pollutants
NIRP	Navy and Marine Corps Installation Restoration Program
NL	No Listing
NM	Not Measured
NO_2	Nitrite
NO_3	Nitrate
NOAEL	No-Observed-Adverse-Effect-Level

ACRONYMS (Continued)

NPL	National Priority List
NPW	Net Present Worth
NS	Not Sampled
NSPS	New Source Performance Standards
NTU	Nephelometric Turbidity Unit
O&M	Operation and Maintenance
OP	Organophosphorus
ORC	Oxygen Releasing Compound
ORP	Oxidation Reduction Potential
OSHA	Occupational Health and Safety Administration
OU	Operable Unit
OVG	Organic Volatile Gases
PA	Preliminary Assessment
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethene
PEF	Particulate Emission Factor
pg/L	Picograms per Liter
PID	Photo Ionization Detector
POTW	Publicly Owned Treatment Works
PPE	Personal Protective Equipment
PPRTV	Provisional Peer Reviewed Toxicity Value
ppt	Parts Per Thousand
PRB	Permeable Reactive Barrier
PRG	Preliminary Remediation Goal
PSC	Potential Source of Contamination
PVC	Polyvinyl chloride
PWC	Public Works Center
QAPP	Quality Assurance Project Plan
RAD	Radiological
RAGS	Risk Assessment Guidance for Superfund
RAO	Remedial Action objective
RBC	Risk-Based Concentration
RBCA	Risk-Based Corrective Action
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design

ACRONYMS (Continued)

RF	Retardation Factor
RfD	Reference Dose
RFI	RCRA Facility Investigation
RGO	Remedial Goal Option
RI	Remedial Investigation
RI/FS	Remedial Investigation and Feasibility Study
RME	Reasonable Maximum Exposure
RMO	Risk Management Option
ROD	Record of Decision
RUST	RUST Environmental and Infrastructure
S	Solubility
SARA	Superfund Amendments and Reauthorization Act
SCG	Soil Cleanup Goals
SCTL	Soil Cleanup Target Level
SDWA	Safe Drinking Water Act
SER	Sampling Event Report
SI	Site Inspection
SMCL	Secondary Maximum Contaminant Level
SMDP	Scientific/Management Decision Points
SOP	Standard Operating Procedure
SPLP	Soil Precipitation Leaching Procedure
SSL	Soil Screening Level
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TBC	To Be Considered
TCE	Trichloroethene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TEF	Toxicity Equivalence Factor
TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
TRV	Toxicity Reference Values
TSDF	Treatment, Storage, and Disposal Facility
TtNUS	Tetra Tech NUS, Inc.
UCL	Upper Confidence Limit
µg/kg	Micrograms per Kilogram

ACRONYMS (Continued)

µg/L	Micrograms per Liter
USDA	Unites States Department of Agriculture
USEPA	United States Environmental Protection Agency
USGS	United States Geologic Survey
UST	Underground Storage Tank
uV	Ultra Violet
v	Velocity
VDEQ	Virginia Department of Environmental Quality
VE	Vapor Extraction
VF	Volatilization Factor
VOC	Volatile Organic Compound
VP	Vapor Pressure
Y^3	Cubic Yards
ZVI	Zero Valent Iron

EXECUTIVE SUMMARY

The Navy has implemented the NIRP to investigate and remediate releases of hazardous materials at Navy facilities. The NAS Jacksonville Partnering Team, established in 1993, guides the implementation of the NIRP at NAS Jacksonville. This team consists, in part, of representatives from USEPA, FDEP, the Navy, Tetra Tech NUS, Inc. (TtNUS), and CH2M Hill, Inc.

TtNUS was contracted by NAVFAC SE to conduct an RI/FS for Potential Source of Contamination (PSC) 47 at NAS Jacksonville in Jacksonville, Florida. The RI/FS has been completed in general accordance with Contract Number N62467-94-D-0888 as part of the NIRP. The activities and findings of the RI and associated Human Health Risk Assessment (HHRA) and Ecological Risk Assessment (ERA) and the FS are discussed in this report. As requested by the USEPA, the site was given an Operable Unit (OU) designation (OU 8) to facilitate tracking in the USEPA database.

ES-1 REMEDIAL INVESTIGATION

PSC 47 consists of an area centered on the former Pesticide Shop (Building 536) and the Disease Vector Ecology and Control Center (DVECC) (Building 937). Waste materials previously stored or used in the vicinity of Buildings 536 and 937 include pesticides and volatile organic compounds (VOCs). Other regulated substances, including herbicides, semivolatile organic compounds (SVOCs), and inorganics (metals) have been identified at elevated concentrations in soil and/or groundwater samples during previous site investigations. Previously reported releases and the data obtained during the removal of the former “mixing tank” formerly located south of Building 937 resulted in the creation of PSC 47 and the inclusion of Building 937 in OU 8.

The geology of the PSC 47 area includes clastic sediments, consisting predominantly of sand, from land surface to the top of a weathered limestone, which occurs at a depth of 45 to 53 feet (ft) below land surface (bls) across the site. The weathered limestone prevents further downward migration of contaminants. There also is a downward gradient at this site based on water level measurements in well nests.

The primary contaminants detected and delineated during this RI were pesticides, VOCs, SVOCs, and arsenic. Contamination of surface soil, subsurface soil, and groundwater are documented in this report. Surface and subsurface soil pesticide contamination [defined as contaminant concentrations exceeding residential Soil Cleanup Target Levels (SCTLs)] is widespread around Building 536. Arsenic contamination is present in both the surface and subsurface soil around Building 536 but distribution

appears to be random. Limited surface soil contamination [pesticides and polynuclear aromatic hydrocarbons (PAHs)] is also present in the drainage swale located along the eastern site boundary.

The groundwater contamination is focused mostly in the upper portions of the shallow saturated unit (approximately 7 to 27 ft bls). There are two distinct areas (plumes) of shallow contamination that will be referred to as the southern plume and northern plume. The southern plume is an area of groundwater contamination south of Building 937 and the northern plume is an area of groundwater contamination approximately centered on Building 536.

The northern groundwater plume is contaminated predominantly with pesticides in the upper portion of the shallow aquifer. A small area of VOC/SVOC contamination is present within this shallow pesticide plume (located near the center of the north side of Building 536) and is most likely attributed to previous aboveground storage tanks (ASTs) and underground storage tanks (USTs) that had been located in the vicinity. One pesticide contaminant of concern (COC) was detected in deep monitoring well JAX47-MW13D (installed in the deeper portion of the surficial aquifer) located near the center of Building 536. Groundwater flow at Building 536 is in a general northwest direction.

The southern plume is a mixture of pesticides, VOCs, and arsenic that is located south of Building 937, but extends underneath the western end of the building. This plume is centered between monitoring wells JAX47-MW17S and JAX47-536-MW01S and located predominantly in the upper portion of the shallow aquifer. One pesticide COC was detected in a deep monitoring well (JAX47-MW17D). JAX47-MW17D also had four VOC compounds at concentrations exceeding Groundwater Cleanup Target Levels (GCTLs). Arsenic contamination is limited in the southern plume to a “hot spot” that is approximately a quarter acre in size and centered on wells JAX47-536-MW02 and JAX47-536-MW03S. The arsenic “hot spot” is in the approximate location of the former mixing tank. Groundwater flow at Building 937 is in a general northwest direction.

ES-2 HHRA

The results of an HHRA conducted at PSC 47 indicated that the potential for unacceptable risks to human health is present. Unacceptable risk is associated with direct contact to surface soil, subsurface soil and groundwater. The COCs for direct contact exposures (associated with any or all media) include benzene, cis-1,2-dichloroethene (DCE), trichloroethene (TCE), vinyl chloride, benzo(a)pyrene equivalents, 4,4’-dichlorodiphenyldichloroethane (DDD), 4,4’-dichlorodiphenyldichloroethylene (DDE), 4,4’-dichlorodiphenyltrichloroethane (DDT), alpha-chlordane, gamma-chlordane, dieldrin, heptachlor, heptachlor epoxide, alpha-hexachlorocyclohexane (BHC), beta-BHC, delta-BHC, gamma-BHC, and arsenic.

ES-3 ERA

The ERA concluded that VOCs and SVOCs pose negligible risk. However, organochlorine pesticides are present in some surface soil samples at extremely high concentrations and are known to be extremely persistent in soil. Pesticide concentrations in several samples pose risk to soil invertebrates, especially from the cumulative toxicity of multiple pesticides. In addition, organochlorine pesticides can bioaccumulate and biomagnify in the food chain, and the risk assessment suggests there is elevated risk to mammals and birds that consume soil invertebrates at the site. However, the poor habitat, the urban nature of the area, and the small size of PSC 47 results in an exposure pathway that is essentially negligible for wildlife species. Therefore, with the exception of receptors such as soil invertebrates, the potential for ecological impacts from site-related contaminants is lessened under current habitat conditions.

ES-4 FEASIBILITY STUDY

The Remedial Action Objectives (RAOs) identified for PSC 47 are as follows:

Soil RAO No. 1: Prevent unacceptable risk from exposure to surface and subsurface soil with concentrations of benzo(a)pyrene equivalent (BaPEq), pesticides, and arsenic greater than the FDEP SCTLs for direct residential exposure.

Soil RAO No. 2: Prevent migration of pesticides to groundwater from surface and subsurface soil with concentrations of these chemicals greater than the FDEP SCTLs for leachability to groundwater.

Groundwater RAO No. 1: Prevent unacceptable risk from exposure to groundwater with concentrations of VOCs, SVOCs, pesticides, and arsenic greater than the FDEP GCTLs and the USEPA maximum contaminant levels (MCLs).

Groundwater RAO No. 2: Prevent migration of groundwater COCs to surface water.

In order to implement the RAOs, the following remedial alternatives were evaluated.

Alternative S-1: No Action
Alternative S-2: Capping to Allow Industrial Use and Prevent Leaching, land use controls (LUCs), and Monitoring
Alternative S-3: Excavation and Off-Site Disposal to Allow Industrial Use, Capping to Prevent Leaching, LUCs, and Monitoring
Alternative S-4: Excavation and Off-Site Disposal to Allow Residential Exposure and to Prevent Leaching

Alternative GW-1:	No Action
Alternative GW-2:	Monitored Natural Attenuation and LUCs
Alternative GW-3A:	Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored Natural Attenuation, and LUCs
Alternative GW-3B:	Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored Natural Attenuation, and LUCs

1.0 INTRODUCTION

TtNUS, under contract to the Navy, NAVFAC SE, conducted an RI/FS at PSC 47, NAS Jacksonville located in Jacksonville, Duval County, Florida. PSC 47 is a former pesticide mixing, usage, and storage area that has been housed in Buildings 536 and 937. Other regulated substances previously identified in the area include herbicides, VOCs, SVOCs, and waste oil. This RI/FS has been completed in accordance with contract number N62467-94-D-0888, Contract Task Order (CTO) 0162 as part of the NIRP. The activities and findings obtained during the RI/FS are presented and discussed in this report.

1.1 ORGANIZATIONAL STRUCTURE

The Navy implemented the NIRP to investigate and remediate releases of hazardous materials at Navy and Marine Corps installations. NAS Jacksonville was listed on the CERCLA National Priority List (NPL) in December 1989 because of documented past releases of hazardous waste at the facility. Activities required under CERCLA regulations for NAS Jacksonville are being conducted under the FFA and the base's Installation Restoration (IR) Program. An integral portion of this program is the NAS Jacksonville Partnering Team, established in 1993, which guides the implementation of the NIRP at NAS Jacksonville. This team consists of representatives from the USEPA, the FDEP, NAVFAC SE and its consultants, the NAS Jacksonville Facilities Department, TtNUS, and CH2MHILL.

Fifty-two PSCs have been identified at NAS Jacksonville where hazardous materials may have been released to the environment. The area of the current investigation has been designated PSC 47.

1.2 PAST PRACTICES LEADING TO ESTABLISHMENT OF PSC 47

1.2.1 Pesticide Shop (Building 536)

The Pesticide Shop, which has occupied its current site since the mid/late 1960s, was identified as a PSC and added to NAS Jacksonville's Hazardous and Solid Waste Amendment (HSWA) permit in 1993 because past practices included disposal of pesticides, storage of pesticides and herbicides, and calibration and testing of pesticide application equipment. Additionally, chlordane was applied to and around test slabs of concrete, cinder block, and brick in the southeast corner of the property during termite control training exercises [Harding Lawson Associates (HLA), 1999].

In 1991, approximately 30 empty, rusted 55-gallon drums were removed from the southwest corner of the property. According to waste handlers at NAS Jacksonville, the drums had once contained malathion and other pesticides. An unspecified amount of chlordane was reportedly spilled in the northwest corner of PSC 47 at an unknown date (HLA, 1999).

Other previously existing potential sources of contamination in the vicinity of Building 536 include soakage pits formerly located at the southeast and southwest corners of the building and one UST and two ASTs formerly located south of the building. The soakage pits were 2 ft square by 3 ft deep. The purpose of the pits is not known, although it is believed that the southeastern pit received drainage from inside the bays of Building 536. The UST and one of the ASTs reportedly contained diesel fuel and the other AST contained a mixture of diesel fuel and malathion for use as a "hot fogger" prior to 1972.

1.2.2 DVECC (Building 937)

Building 937 (DVECC) was dedicated on January 25, 1978. One of the functions performed at Building 937 is the development of effective pest management programs. Prior to 1978, these activities were conducted at the Pesticide Shop. From approximately 1978 to 1988, a pesticide mixing room with a sink and three floor drains was located in the south central portion of Building 937. Rinse water and excess liquids from the sink and floor drains discharged to a 1,000-gallon fiberglass UST known as the "DVECC Tank." The UST was taken out of service in 1989, the same year that representatives from DVECC and the Naval hospital met to discuss the historical inability of the insectary in Building 937 to support mosquito growth. At this meeting, participants expressed concern about the possibility of significant contamination on the grounds of Buildings 937 and 536 due to the long history of pesticide application training.

NAS Jacksonville prepared the DVECC tank for Resource Conservation and Recovery Act (RCRA) closure in a revised permit application submitted to the FDEP on October 13, 1993. FDEP issued the permit on September 21, 1995, authorizing closure of the DVECC tank as part of the Closure Permit for Hangar 1000. In April 1994, prior to issuance of the application, a residual volume (approximately 15 gallons) of liquid was removed from the tank and floor drains and the drains were capped with concrete.

Closure work was performed by Bechtel Environmental, Inc. (BEI) from October 16, 1995 through December 6, 1995 [RUST Environment and Infrastructure (RUST), 1996]. Confirmatory soil and groundwater samples collected after excavation and removal of the DVECC tank revealed the presence of pesticides in these environmental media, the most prevalent being chlordane. Since "clean closure" was not achieved, additional subsurface investigations were performed in December 1996 to evaluate the extent of contamination in the area. Soil samples were collected from 14 locations and groundwater samples were collected from 6 locations in and around the former DVECC tank excavation. Pesticide concentrations were again reported at values exceeding regulatory criteria in soil and groundwater samples, although the distribution of contaminants appeared random and was not centered on the location of the former DVECC tank. This random contaminant distribution in the vicinity of the DVECC tank cast uncertainty as to the source area for pesticide contamination in this area. Shortly after results of

the supplemental assessment were made known, the NAS Jacksonville Partnering Team agreed to incorporate DVECC into PSC 47, effectively removing the site from the RCRA Application for Closure Permit for Hangar 1000.

1.3 ASSESSMENT AND REMEDIAL ACTIONS PRIOR TO THE RI/FS

Actions performed at PSC 47 prior to initiation of the RI/FS, which were intended to either eliminate potential source areas of contamination, define the extent of contamination, or remove contaminated media are summarized in Table 1-1. Descriptions and results of these activities are described more fully in Section 3.0 of this report.

1.4 RI/FS SCOPE OF WORK AND OBJECTIVES

A formal data quality objective (DQO) process was conducted by the NAS Jacksonville Partnering Team in early 2000. Unabridged details of the seven-step DQO process implemented for PSC 47 RI/FS are described in Section 3 of the *Final RI/FS Work Plan for PSC 47* (TtNUS, 2000). During the DQO meetings, it was decided that field activities would be performed in phases in order to satisfactorily complete the RI. Also during the DQO process, the Partnering Team chose to consider groundwater, surface soils (0 to 2 ft bls), subsurface soils (base of vadose zone), surface water, and sediment during the RI.

The above referenced RI sampling was completed in two phases (Phase I and Phase II) and a Draft RI was submitted to FDEP on June 14, 2004. FDEP comments (dated September 29, 2004) on the Draft RI resulted in the need for additional assessment activities at PSC 47. The Partnering Team directed TtNUS to collect additional soil and groundwater data. This additional sampling data will be referred to as Phase III sampling.

1.4.1 Phase I Field Activities

The following activities were conducted during Phase I of the field investigation:

- Advancement of 31 Direct Push Technology (DPT) borings around the site perimeter and at several interior locations using a GeoProbe®. Additional locations as determined in the field were also proposed.

Table 1-1
Summary of Source Removal Actions, Assessment Activities, and Remedial Measures
Performed at PSC 47 Prior to Initiation of RI/FS

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Date	Actions Performed	Summary of Results	Reference Document	Author
March to September 1994	Organizational chart and Work Plan for removal of DVECC pesticide tank prepared.	Scope of Work including waste management, Sampling and Analysis Plan, Safety and Health Plan, and Quality Control Plan accepted by Navy.	Remediation Work Plan	Bechtel Environmental, Inc. (September, 1995)
October 16, to December 6, 1995	• Excavation of DVECC tank and associated piping. • Removal of tank, associated piping, waste soil, concrete, and asphalt (33 55-gallon drums, 4 roll offs). • Laboratory analysis of 6 soil samples and 4 groundwater samples.	Pesticides (primarily chlordane) identified in soil and groundwater samples beneath excavation at concentrations exceeding regulatory criteria.	Closure Activities Report and Certification for DVECC Tank and Drains at Building 937	Rust Environmental and Infrastructure (December, 1996)
December 18, to December 27, 1996	• Installation of 5 shallow monitoring wells and 1 deep monitoring well around former DVECC tank location. • Collection of soil samples from 6 monitoring well borings and from 8 other soil borings. • Laboratory analysis of groundwater samples from monitoring wells for select pesticides and herbicides. • Laboratory analysis of 2 soil samples each from 14 borings for select pesticides and herbicides. • Slug testing of 3 monitoring wells.	Approximately 6 or 7 targeted pesticides reported at concentrations exceeding regulatory criteria in soil and groundwater samples. One herbicide (2,4,-D) also reported.	Draft RCRA Facility Investigation for Disease Vector Ecology and Control Center (Building 937)	Brown and Root, Inc. Environmental (January, 1999)

See notes at end of table.

Table 1-1 (Continued)
Summary of Source Removal Actions, Assessment Activities, and Remedial Measures
Performed at PSC 47 Prior to Initiation of RI/FS

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Date	Actions Performed	Summary of Results	Reference Document	Author
April 9, to August 13, 1997	• Collection of 56 surface soil samples and 3 groundwater samples from areas surrounding Building 536 and behind (northwest of) Building 937. • Laboratory analysis of soil and groundwater samples for some or all of the following: TCL VOCs, SVOCs, pesticides/PCBs, herbicides, and TAL metals.	Soil: 13 pesticides and 3 herbicides detected at significant levels, 2 SVOCs detected at moderately high levels, no significant VOC detections; arsenic and lead reported at high levels in isolated cases. Groundwater: 15 pesticides, 1 herbicide, 2 SVOCs, 2 VOCs, and 5 inorganics (metals) reported at concentrations exceeding Florida GCTLs.	Sampling Event Report, Potential Source of Contamination 47, Pesticide Shop, Building 536	Harding Lawson Associates (February, 1999)
February to March 1999	• Area surrounding western half of Building 536 excavated to depths of 1, 2, or 3 ft. Approximately 1300 cubic yards of contaminated soil excavated and transported off-site for disposal. Contents of soakage pits stored in 55-gallon drums and also transported off-site for disposal. • Twenty-eight floor samples and 17 sidewall samples (soil) collected from excavation and 9 samples collected from soakage pit excavations for analysis of pesticides. • Excavated area backfilled with clean material, site returned to pre-construction condition.	Approximately 10 pesticide compounds detected at concentrations exceeding industrial SCTLs in soil samples. Highest concentrations were around the soakage pits and in the area to the south and southwest of the western half of Building 536.	Completion Report for Soil Removal at PSC 47, Pesticide Shop	Bechtel Environmental, Inc. (July, 1999)

Notes:
PSC = potential source of contamination
DVECC = Disease Vector Ecology and Control Center
RCRA = Resource Conservation and Recovery Act
TCL = target compound list
VOCs = volatile organic compounds
SVOCs = semivolatile organic compounds
PCBs = polychlorinated biphenyls
TAL = target analyte list
GCTLs = groundwater cleanup target levels
ft = feet
SCTLs = soil cleanup target levels

- Collection of soil samples from DPT or hand-augered borings at 1-ft vertical intervals until the water table is encountered, as required. The samples were analyzed in the mobile laboratory and additional vertical samples were only collected if the surface soil indicated the presence of COCs greater than residential SCTLs.

- Collection of groundwater grab samples at two or three intervals within the surficial aquifer to depths of approximately 50 ft bls at the 31 DPT boring locations.

- Collection of surface water and/or sediment samples, if present, from select locations in the ditch on the east side of the PSC.

- Mobile laboratory analysis of soil samples for TCL pesticides by USEPA Method 8081 and at select locations for TCL VOCs by USEPA Method 8260 beginning with the surface sample at each boring location and continuing downward until results are below residential SCTLs or until background was obtained.

- Mobile laboratory analysis of groundwater grab samples and surface water/sediment samples (if present) for these same constituents (pesticides, select locations for VOCs).

- Fixed-base laboratory analysis of 10 percent of the mobile laboratory samples (from all media) for an extended list of parameters, including polychlorinated biphenyls (PCBs), organophosphorous pesticides, herbicides, target compound list (TCL) SVOCs, and target analyte list (TAL) metals (select locations) in addition to TCL pesticides, and TCL VOCs.

The primary objective of Phase I, or the screening phase, was to evaluate the lateral and vertical extent of soil contamination and to establish a vertical profile of groundwater contamination so that permanent monitoring wells could be strategically placed during Phase II.

1.4.2 Phase II Field Investigation

The original scope of work for the Phase II field investigation called for the installation of six permanent shallow monitoring wells (total depth, 15 ft bls) and two deep monitoring wells (total depth, approximately 50 ft bls) at locations considered optimum based on results of the Phase I investigation. Wells were installed and developed in accordance with applicable state and federal guidelines. Groundwater flow direction maps were generated from surveyed top-of-casing elevations and depth-to-water measurements obtained at the newly-installed wells and from existing wells installed by previous consultants.

Groundwater samples collected from new and existing wells were analyzed by a certified fixed-base laboratory for TCL pesticides, organophosphorous pesticides, and TCL herbicides. Select samples would also be analyzed for TCL VOCs, TCL SVOCs, PCBs, and TAL metals. In addition to COC analyses, groundwater samples from each well were submitted to the laboratory for analysis of the following natural attenuation parameters: methane, ethane, ethene, hydrogen sulfide, chloride, nitrate, nitrite, sulfate, ammonia, total Kjeldahl nitrogen (TKN), dissolved iron, dissolved manganese, and total organic carbon (TOC). Other natural attenuation parameters, including carbon dioxide, dissolved oxygen, alkalinity, ferrous iron, hydrogen sulfide, and sulfides (as S^{-2}), were measured in the field during collection of groundwater samples.

1.4.3 Phase III Field Investigation

A third phase of sampling was completed to satisfy FDEP concerns on the completeness of soil and groundwater delineation at PSC 47. The objective of the sampling was to complete soil and groundwater delineation that had been previously identified at PSC 47. Additional horizontal and vertical delineation of pesticide impacted soil was needed around Building 536. Collection of arsenic soil data from the area of the aresenic hot spot in the southern plume was accomplished. A second round of groundwater data was collected for PSC 47 to verify prevously defined groundwater contamination. To address these issues, the following scope of work was completed.

- Fifty soil sample locations were proposed around Buildings 536 and 937. Surface soil (0-1 ft) and subsurface soil (immediately above water table, approximately 5 to 6 ft bls) samples were collected. Fourteen of the samples were collected at Building 937 and analyzed for arsenic only. The remaining 36 samples were collected around Building 536 and analyzed for TCL pesticides and arsenic. Synthetic precipitation leaching procedure (SPLP) analysis was performed on select samples following evaluation of laboratory results.
- Additional soil samples were collected as needed to complete delineation.
- Two new shallow monitoring wells were installed.
- The two newly installed monitoring wells and 30 existing site wells were sampled and analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, and arsenic.

1.4.4 Objectives of the RI/FS

The objectives of the RI/FS are as follows:

- Develop an understanding of the geologic and hydrogeologic setting at PSC 47.
- Define the areal extent of impact to the media of concern.
- Collect natural attenuation parameters and evaluate the potential natural attenuation pathways.
- Identify the constituents of potential concern (COPCs) for the risk assessment process.
- Conduct HHRAs and ERAs.
- Evaluate and recommend remedial alternatives that may achieve a final remedy for the site.

1.5 REPORT SCOPE AND ORGANIZATION

This document contains results from the completed RI program and includes analytical results and conclusions from previous investigations. Previous reports are incorporated by reference to provide a comprehensive record of the investigative activities at PSC 47.

This report contains the following 13 sections:

1.0 Introduction, overview of the RI/FS approach and objectives, background information, and the scope and organization of the report.

2.0 Site background, location, descriptions, history of PSC 47, and physical characteristics of the region and PSC 47 including climate, soil, geology, and hydrogeology.

3.0 Previous site investigations and remedial actions.

4.0 RI/FS Field Program, a summary of the activities conducted for this remedial investigation.

5.0 Nature and extent of all contamination within each environmental media. Evaluation of the fate and transport of contaminants.

6.0 Chemical fate & transport, including an evaluation of natural attenuation processes. Summary of natural attenuation Results.

7.0 HHRA.

8.0 ERA.

9.0 Identification of the remedial action objectives.

10.0 Identification and screening of remedial technologies and development of remedial alternatives.

11.0 Detailed analysis of the remedial alternatives for surface soil and groundwater.

12.0 Comparative analysis of the remedial alternatives.

– References.

2.0 SITE BACKGROUND

2.1 SITE CHARACTERIZATION

The following sections provide a historical overview of the NAS Jacksonville facility and a physical description of PSC 47. Background information on the geography and demographics, physiography and topography, climate, soil, regional geology, and regional hydrogeology are also provided.

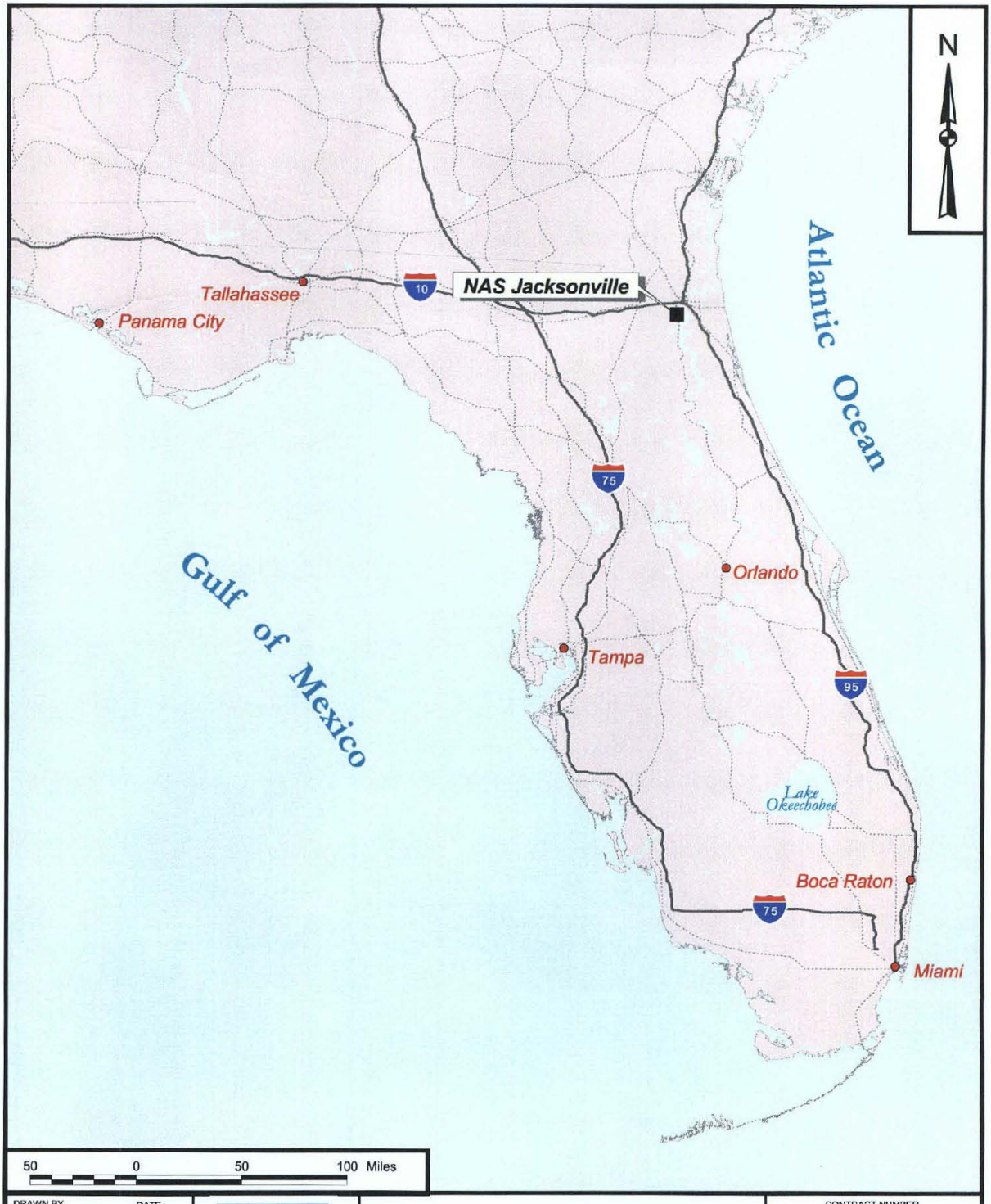
2.1.1 NAS Jacksonville Location and Description

NAS Jacksonville occupies approximately 3,896 acres in southeastern Duval County, Florida and is located approximately nine miles south of downtown Jacksonville. The facility is situated on the left (west) bank of the St. Johns River approximately 24 miles upstream of its outflow to the Atlantic Ocean as shown on Figure 2-1. The main portion of NAS Jacksonville is bordered on the north by Timuquana Country Club, on the east and northeast by the St. Johns River, on the south by a residential area, and on the west by Highway 17 (Roosevelt Boulevard). Land use to the north of NAS Jacksonville is primarily commercial (strip malls, small businesses, etc.), to the west mainly undeveloped (wooded) with some light industry, business, and single family housing, and to the south residential. PSC 47 is located in the west-central portion of the base on the west side of Child Street and approximately one block south of Birmingham Avenue as shown on Figure 2-2.

NAS Jacksonville is a multi-mission base hosting more than 100 tenant commands and employing more than 26,000 active duty and civilian personnel. The installation is home to the P-3C Orion long-range maritime surveillance aircraft, the SH-60F Seahawk helicopter, and the S-3B Viking jet aircraft. The Naval Aviation Depot at NAS Jacksonville is the largest industrial employer in northeast Florida and performs maintenance, repair, and overhaul of Navy aircraft.

In addition to the many operational squadrons flying P-3, C-12, C-9 aircraft, and SH-60F helicopters, NAS Jacksonville is home to Patrol Squadron Thirty (VP-30), the Navy's largest aviation squadron. VP-30 is the only "Orion" Fleet Replacement Squadron that prepares and trains U.S. and foreign pilots, air crew, and maintenance personnel for further operational assignments.

Support facilities include an airfield for pilot training, a maintenance depot providing more than 150 trade skills from basic tire changing to total engine disassembly, a Naval Hospital, a Fleet Industrial Supply Center, a Navy Family Service Center, and recreational facilities.



DRAWN BY J. LAMEY	DATE 8/18/03	REGIONAL LOCATION MAP NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER 3966
CHECKED BY	DATE		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 2-1 REV 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR REGIONAL LOCATION MAP 4/17/07 SP

DRAWN BY J. LAMEY	DATE 8/18/03	SITE LOCATION MAP PSC 47 NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER 3966
CHECKED BY C. METZ	DATE 11/15/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 2-2 / REV 0

NAVFAC

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR SITE LOCATION MAP 11/15/06 SP

2.1.2 NAS Jacksonville History

NAS Jacksonville was commissioned on October 15, 1940 to provide facilities for pilot training and a Navy Aviation Trades (NAT) School for ground crewmen. With the advent of World War II, the physical size of NAS Jacksonville more than doubled to support wartime military operations. During 1942, the Navy phased out pilot training, and the station became the headquarters for the Chief of Naval Operational Training, the final training phase before fleet assignment. The NAT School became the Naval Air Technical Training Center under the Chief of Naval Air Technical Training, NAS Memphis. The operational areas of the station still maintained coastal protection with seaplanes. The facility reached a peak of 42,000 Navy personnel and 11,000 civilians by 1946.

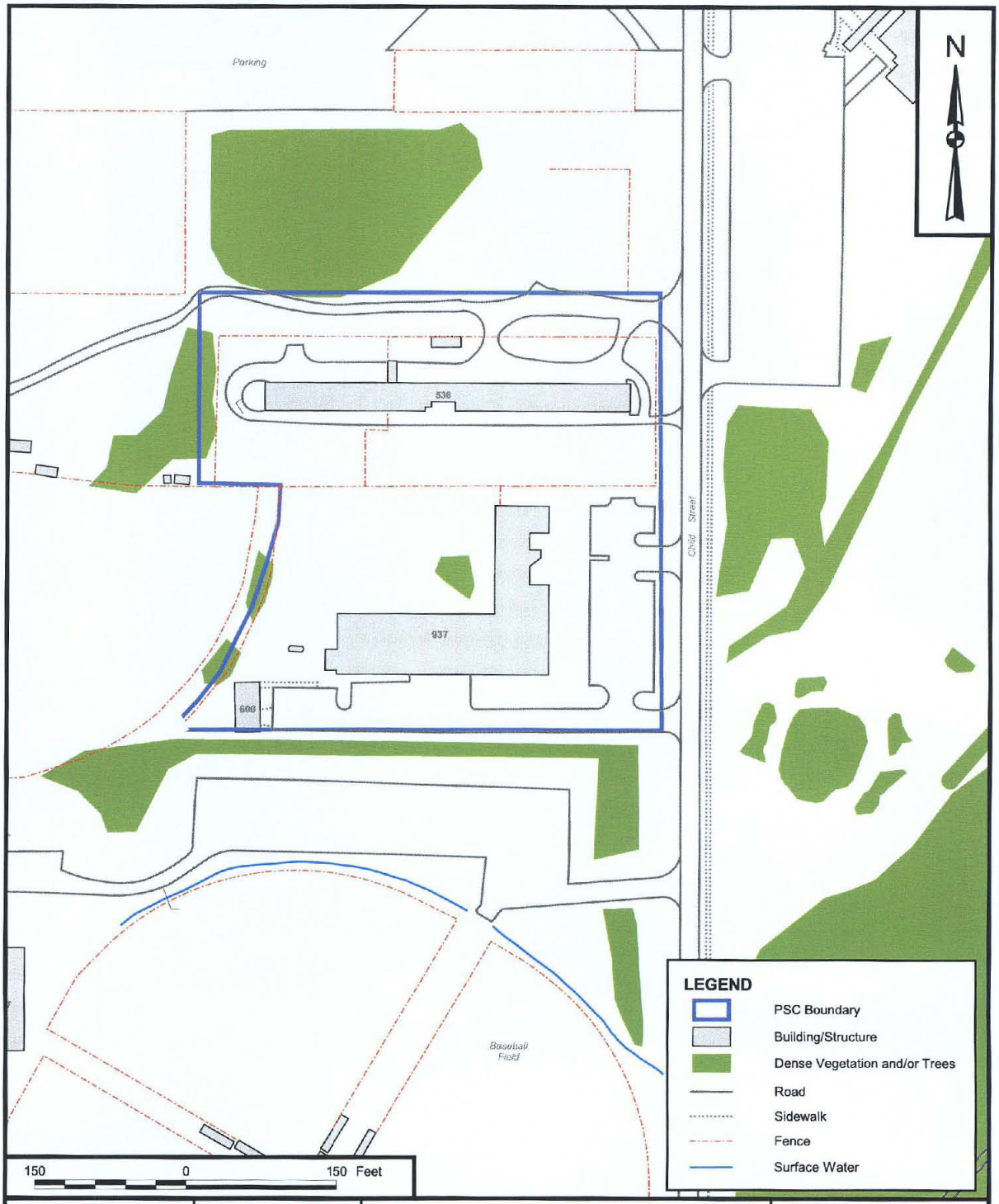
At the conclusion of World War II, NAS Jacksonville was used exclusively for aviation training. In 1945, Chief of Naval Operational Training was redesignated Chief Naval Air Advanced Training. In July 1946, the Seventh Naval District was transferred from Miami, Florida to NAS Jacksonville, as joint command with Chief Naval Air Advanced Training. On April 5, 1948, the Navy transferred the Chief Naval Air Training and all training facilities to NAS Corpus Christi, Texas.

By January 1949, the mission of NAS Jacksonville was to support the operational carrier squadrons with fleet squadrons assigned to Commander, Naval Air Bases, Sixth District and patrol squadrons assigned to Combat Patrol Wing Eleven. On January 1, 1951, the Navy reactivated the Naval Air Technical Training Center and Marine Air Division activities in support of the Korean conflict. This joint operational and training status continues to this time.

2.1.3 PSC 47 Location and Site Description

The Pesticide Shop (Building 536) and DVECC (Building 937) (PSC 47), as mentioned above and as illustrated on Figure 2-2, are located in the west-central portion of NAS Jacksonville on the west side of Child Street approximately one block south of Birmingham Avenue. A plan view of PSC 47 and surrounding properties showing prominent structures and features is provided as Figure 2-3. The entire PSC occupies an area of approximately 185,000 square ft. It is a relatively flat parcel bounded on the east by Child Street, on the north by a wooded parcel and grass area, and on the west and south by athletic fields (baseball diamonds). A south-flowing drainage ditch, dry except during rain events, is present along the eastern boundary of the PSC parallel with Child Street.

The Pesticide Shop (Building 536) is a long narrow structure, approximately 360 ft long and 28 ft wide. Its long dimension is oriented east to west. The interior is segmented into working bays and offices. Asphalt pavement approximately 10 ft wide abuts the building on the north and south. The surface outside the asphalt is covered with grass and/or soil. The premises are surrounded on all sides by a 6-ft high



DRAWN BY S. PAXTON	DATE 11/16/06	SITE MAP PSC 47 NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER 3966
CHECKED BY C. METZ	DATE 11/16/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 2-3 REV 0

NAVFAC

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR SITE MAP 11/16/06 SP

chain-link fence offset from the building at various distances ranging from 30 to 75 ft. The eastern portion of Building 536 is currently used by the NAS Jacksonville landscape contractor for administrative purposes and for storage, maintenance, and repair of its fleet of mowers and other landscaping equipment. Access to the facility is off of Child Street northeast of the building.

DVECC (Building 937) occupies the adjoining property to the south. A chain-link fence, situated approximately 75 ft south of the Pesticide Shop, separates the two properties. Building 937 is L-shaped with an eastern wing facing Child Street and a southern wing facing a pair of baseball diamonds located south of the facility. The northernmost extension of Building 937 is located approximately 95 ft south of the Pesticide Shop. The area inside the "L" and between Building 937 and the Pesticide Shop consists of a maintained lawn, landscaped shrubbery, and some large trees. A paved parking lot is present between Building 937 and Child Street. A paved, east-to-west entrance drive off of Child Street leading to work bays on the south wing of the building is present near the southern property boundary. Access to the rear (south side) of the building is protected by a security-coded chain-link fence/gate. An asphalt parking lot and the two baseball diamonds are located south of Building 937. A narrow strip of dense vegetation separates the DVECC grounds from the parking lot/softball complex. A chain-link fence is present along the western boundary of DVECC. A single baseball diamond is situated west of Building 937. A neutral grass area approximately 15 to 20 ft wide is present between the outfield fence of the baseball diamond and the chain-link fence marking DVECC's western property boundary.

Historical practices at Buildings 536 and 937, which pre-dated investigative history and are relevant to the current RI/FS were discussed in Section 1.2.

2.2 ENVIRONMENTAL SETTING

2.2.1 Geography, Demographics, and Land Use

PSC 47 is located on a relatively flat tract of land on the west side of Child Street. The Pesticide Shop (Building 536), or northernmost portion of the PSC, is located approximately 600 ft south of Birmingham Avenue, a main east-to-west artery at NAS Jacksonville. The area between the Pesticide Shop and Birmingham Avenue is comprised of dense woods and a parking lot to the west and a grass area to the east nearer Child Street. A golf course (Casa Linda Oaks) is located on the opposite side of Child Street from PSC 47. As previously mentioned, athletic fields (baseball diamonds) are present both to the south and west of the study area. Most of the surface water runoff at the site likely flows to the drainage ditch along the west side of Child Street and then to the south.

2.2.2 Physiography and Topography

NAS Jacksonville is located in the Coastal Plain physiographic province. The Coastal Plain is composed of marine sediments deposited in terraces which originated due to prehistoric fluctuations in sea level. The terrace deposits are in the form of ridges that tend to parallel the current coastline. The terrace deposits are characterized by very low relief with gentle slopes to the east-southeast. Seven terraces are present in northeast Florida with NAS Jacksonville located within the Pamlico terrace [10 to 25 ft above mean sea level (msl)].

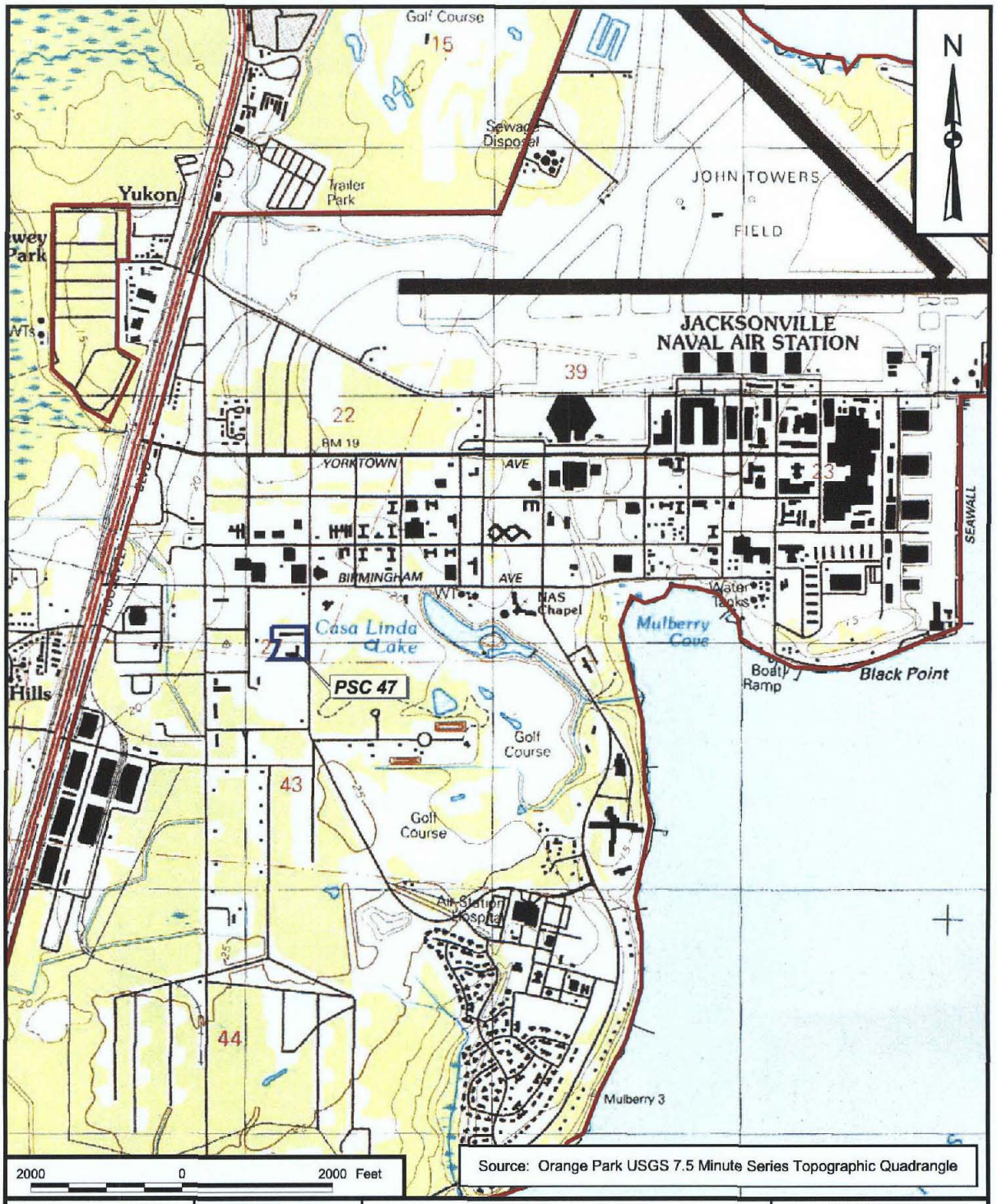
PSC 47 is virtually flat with a gentle slope to the east and southeast. Natural surface elevations range from slightly below 23 ft msl in the southeastern corner of the PSC to slightly above 24 ft msl in the southwestern, central, and north-central areas. A portion of the United States Geological Survey (USGS) Orange Park, Florida 7.5-minute quadrangle (USGS, 1993) has been reproduced as Figure 2-4 to illustrate the physiographic relationship of the subject parcel to its immediate surroundings.

2.2.3 Climate

The climate in northeast Florida approaches semi-tropical as it lies near the northern limit of the trade winds, the prevailing easterly winds that moderate summer and winter temperatures. The annual mean temperature is 68 to 70 degrees Fahrenheit (°F) with an average temperature in the summer of 82 to 83 °F and a winter average 56 to 57 °F. Summer highs reach the middle to upper 90s (°F), sometimes exceeding 100 °F. The winter lows can reach the upper teens, although temperatures seldom drop below freezing.

The region experiences an average of 53 to 54 inches of rainfall per year, most of which accumulates during frequent summer thunderstorms. Extended dry periods may occur throughout the year; however, they are most common in spring and fall. The relative humidity averages 87 percent and the average annual sunshine is 62 percent of the maximum.

Wind speed in northeast Florida averages eight miles-per-hour and direction is predominantly from the northeast in the winter and from the southwest in the summer. Winds of hurricane force can be expected once in five years with significant deviations from the average. Tropical storm activity mostly occurs from August through October, although the six-month period from June 1 through November 30 is officially considered the Atlantic hurricane season.



DRAWN BY: J. LAMEY	DATE: 8/18/03	TOPOGRAPHIC MAP PSC 47 NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER: 3966
CHECKED BY	DATE		APPROVED BY / DATE
COST/SCHEDULE-AREA			APPROVED BY / DATE
SCALE: AS NOTED			DRAWING NO.: FIGURE 2-4 / REV: 0

NAVFAC

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR TOPOGRAPHIC MAP 4/17/07 SP

2.2.4 Soil

Soil at NAS Jacksonville evolved from weathering of marine terrace clastic deposits. It is regionally classified by the United States Department of Agriculture (USDA), Soil Conservation Service as the Pelham-Mascotte-Sapelo soil series assocation. Soils in this association are nearly level and are characterized as poorly drained sands to a depth of 20 inches bls underlain by loamy sands (USDA, 1978).

2.2.5 Regional Geology

The geologic profile at NAS Jacksonville consists of unconsolidated surficial clastic deposits ranging from clean medium- to fine-grained sands to silty fine sands to sandy and silty clay (Fairchild, 1972) underlain by thick deposits of phosphatic sands and clays of the Hawthorn Group (Scott, 1988) and limestones and dolomites of the Floridan aquifer system (Leve, 1966).

The Hawthorn Group is significant at NAS Jacksonville because it contains as much as 200 ft of low permeability, silty, sandy clay (Scott, 1988). This low permeability unit acts as an aquiclude for the underlying Floridan aquifer system. The Floridan aquifer system is the major source of potable water in the Jacksonville area and throughout much of northeastern and central Florida.

2.2.6 Site Specific Geology

Subsurface sediments at PSC 47 were described during RI field activities. In late June to early July 2001, during Phase I (i.e., the "DPT Phase") of the investigation, a site lithologic profile, including two cross-sections, were generated from five select DPT borings from which groundwater grab samples were collected. A full discussion of the groundwater grab sampling program, including an illustration showing sampling locations and depths, is provided below in Section 4.2.1.3. The borings selected for profiling were the ones nearest the corners of the PSC [JAX-47-SB27 (northwest), -SB21 (northeast), -SB01 (southeast), and -SB05 (southwest)] and one in the site interior (SB18). Continuous samples were collected from ground surface to a depth of 48 ft bls at each location using a 4-ft long, 2-inch diameter core barrel lined with acrylic sleeves attached to the GeoProbe® drill string. Samples were described by TtNUS' on-site field geologist. Boring logs generated from these descriptions are provided in Appendix A. A northwest-to-southeast cross-section (labeled A-A') through SB27, SB32, and SB01 depicting lithologic units encountered is presented as Figure 2-5 and a southwest-to-northeast cross-section (labeled B-B') through SB05, SB32, and SB21 is provided as Figure 2-6.

Rev. 1
05/18/07
NASJAX\CTO162\CAD\3966XS01

NORTHWEST

A

SOUTHEAST

A'

SB-27 (EL = 23.81 ft msl)

SB-32 (EL = 24.76 ft msl)

SB-01 (EL = 20.90 ft msl)

ELEVATION (FEET MEAN SEA LEVEL)

30 25 20 15 10 5 0 −5 −10 −15 −20 −25 −30

SAND: Fine and Very Fine

Approximate Position of Water Table (7-15-03)

CLAYEY SAND

SAND: Fine and Very Fine

CLAYEY SAND

SAND: Fine and Very Fine

CLAY STRINGERS

SAND: Fine and Very Fine

CLAY

SAND: Fine and Very Fine

CLAYEY SAND

CLAYEY SAND/SANDY CLAY (?)

CLAYEY SAND/SANDY CLAY (?)

CLAY

WEATHERED LIMESTONE (?)

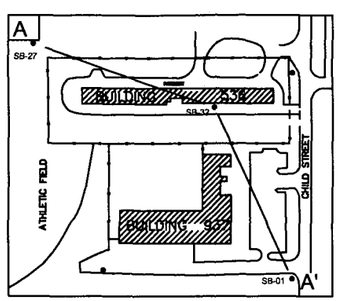
WEATHERED LIMESTONE (?)

WEATHERED LIMESTONE (?)

WEATHERED LIMESTONE

?

CROSS-SECTION LOCATION



60 0 60
HORIZONTAL SCALE In FEET

LEGEND

SB−27 Soil Boring Identification Number

EL = Elevation
ft msl = Feet Mean Sea Level

DRAWN BY LLK	DATE 8/11/03
CHECKED BY	DATE
REVISED BY	DATE
SCALE AS NOTED	

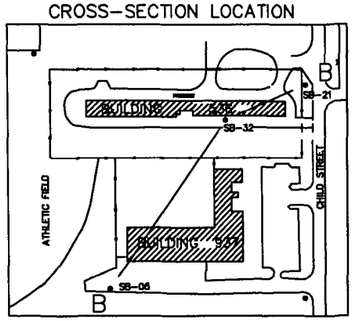
SITE GEOLOGIC PROFILE A-A'
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. 3966	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 2-5	REV. 0

FORM CADD NO. SDIV_BH.DWG − REV 0 − 1/20/98

SOUTHWEST

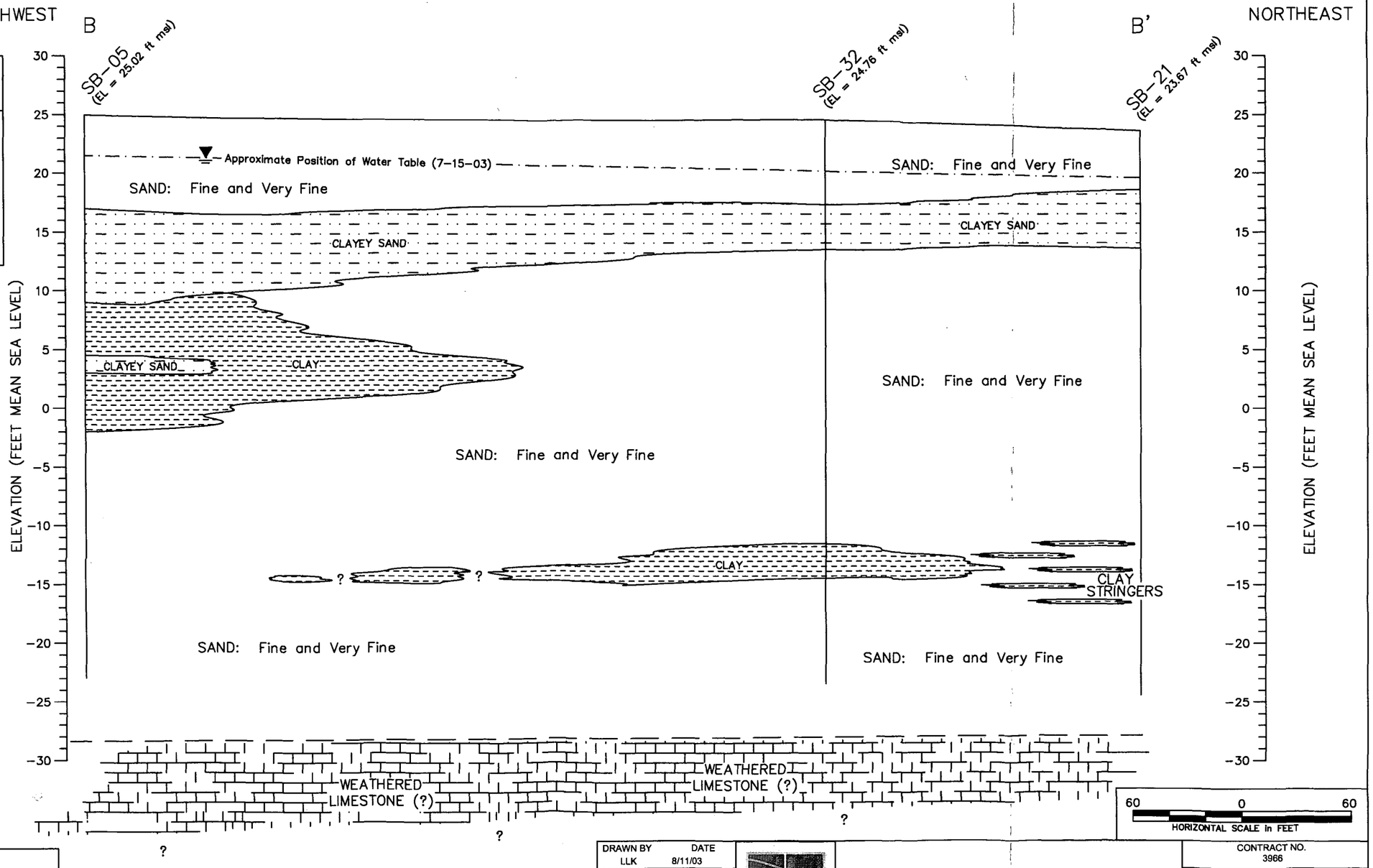
CROSS-SECTION LOCATION



B

B'

NORTHEAST



LEGEND

SB-21 Soil Boring Identification Number

EL = Elevation
ft msl = Feet Mean Sea Level

DRAWN BY LLK	DATE 8/11/03
CHECKED BY	DATE
REVISED BY	DATE
SCALE AS NOTED	

SITE GEOLOGIC PROFILE B-B'
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. 3966	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 2-6	REV. 0

Additional information describing materials encountered in the subsurface was recorded during installation of shallow monitoring wells (12 to 15 ft deep) and deep monitoring wells (42 to 63 ft deep) during Phase II of the investigation (late March-early April 2002, early November 2002, and January 2003). A complete narrative on field work performed during both phases of the RI investigation is provided in Section 4.0.

A weathered limestone unit is encountered beneath PSC 47 at a depth of 45 to 53 ft bls, or, in places, slightly shallower or slightly deeper than this. Shallowest occurrences of the limestone unit are present in the southern part of the study area and deepest occurrences are in the northern part. Clastic sediments, consisting predominantly of sand, are present from land surface to the top of the weathered limestone. In the few feet immediately overlying the limestone, sediments grade from sand to clayey sand to predominantly clay and are distinctively dark gray in color. Above this transition zone, the sediments are mainly fine and very fine grained sands with occasional clay stringers up to 2-inches thick interspersed. Small quantities of disseminated silt and clay are present in some sections of the sand, whereas at other horizons, sorting is better and the sand is virtually free of finer grained components. In the southwestern section of PSC 47 (SB05), appreciably more clay is present in the upper 25 ft than at the other four boring locations (see Figure 2-6). Color of the clastic sediments ranges from very pale brown to orange or yellowish brown to dark gray.

2.2.7 Regional Hydrology

2.2.7.1 Surface Water

Two principal waterways, the St. Johns and Ortega Rivers, are located near NAS Jacksonville. The St. Johns River forms the eastern boundary of NAS Jacksonville. The river is rated by the FDEP as a Class III water body, which is designated for fish and wildlife propagation and body contact recreational use. The river at this point is tidally influenced and can be considered part of the St. Johns River estuary (NAS Jacksonville, 1990). It is classified as a marine water body based on salinity measurements ranging from 7.0 to 8.8 parts per thousand (ppt), as reported in the OU 3 RI/FS. Salinity values greater than 2 ppt support marine vegetation and aquatic life.

2.2.7.2 Groundwater

Three aquifer systems are present in northeast Florida: the surficial aquifer, intermediate aquifer, and the Floridan aquifer system.

The surficial aquifer consists of sediments of Late Miocene to Recent age. The sediments are highly variable and include sand, shelly sand, coquina, silt, clay, shell beds, and in some parts of Duval County,

a basal limestone unit known as the Rock Aquifer. While the surficial aquifer is considered a single unit on a regional scale, localized clay layers or discontinuous lenses may divide the aquifer into distinct permable units [ABB Environmental Services (ABB-ES), 1995]. It averages 50-70 ft in thickness, but in places, exceeds 100 ft thick. The contact between the surficial aquifer and the underlying Hawthorn Group, containing the intermediate aquifer, is an unconformity generally identified by a coarse phosphatic sand and gravel bed (Leve, 1966). Average well yields in Jacksonville for the surficial aquifer were estimated by the City of Jacksonvlle Planning Department to be between 200 and 500 gallons per day (Toth, 1990). This groundwater is primarliy used for lawn irrigation, for heat exchange units in air conditioning and heating systems, and for other non-potable domestic purposes, although yield from the Rock Aquifer is sometimes used as a potable source of water.

The underlying Hawthorn Group of Miocene age is encountered at an average depth of approximately 50 to 70 ft bls in Duval County. Its thickness ranges from 250 ft in southern Duval County to about 500 ft in the north-central part of the county (Scott, 1988). Sediments of the Hawthorn Group consist primarily of gray, blue-green, and olive green clay, sandy clay, and sandy limestone with abundant phosphate granules and pebbles (Spechler, 1982). The most abundant clay minerals associated with Hawthorn Group sediments are smectite, illite, palygorskite, and kaolinite. Collectively, the Hawthorn Group acts as a confining unit between the surficial aquifer and the underlying Floridan aquifer, but water-bearing horizons of low to moderate yield are interlayered with the confining beds. Various terms have been applied to the aggregate of discontinuous, water-bearing strata within the Hawthorn, including “intermediate aquifer system” and “secondary artesian aquifer.”

The Floridan aquifer system underlies the Hawthorn Group. The top of the Floridan aquifer in the vicinity of NAS Jacksonville occurs at a depth of about 400 ft bls. Its average thickness in Duval County is 1500 ft (Leve, 1966). From top to bottom, the Floridan aquifer consists of the limestones of the Ocala Group (Crystal River, Williston, and Inglis Formations), the Avon Park Limestone, Lake City Limestone, and Oldsmar Limestone, all of Eocene age. The base of the aquifer is defined as the first continuous evaporite sequence in the underlying Cedar Keys Limestone. The Floridan aquifer system is the principal source of fresh water in northeast Florida. The water bearing zones consist of soft, porous limestone and porous dolomite beds. Published transmissivities of the Floridan aquifer in eastern Duval County range from approximately 85,000 to 160,000 gallons per day per foot (Leve, 1966). Groundwater in the Floridan aquifer in the vicinity of NAS Jacksonville is moving eastward toward areas of heavy pumping (Fairchild, 1977). Floridan aquifer wells in the vicinity of NAS Jacksonville are under sufficient artesian pressure to flow at the surface. Recharge to the Floridan aquifer is mainly through precipitation in areas where overlying units have been breached.

2.2.8 Site Hydrology

2.2.8.1 Surface Water

PSC 47 is situated approximately 4500 ft (5/6 mile) west of the St. Johns River. The only surface water body of significant dimension closer than this is Casa Linda Lake, located on the golf course roughly equidistant between PSC 47 and the St. Johns River, or about 2200 ft east of the site. A small perennial retention pond comprising an area of approximately 1000 sq ft is located 400 ft north of PSC 47 at the southwest quadrant of the intersection of Child Street and Birmingham Avenue.

2.2.8.2 Groundwater

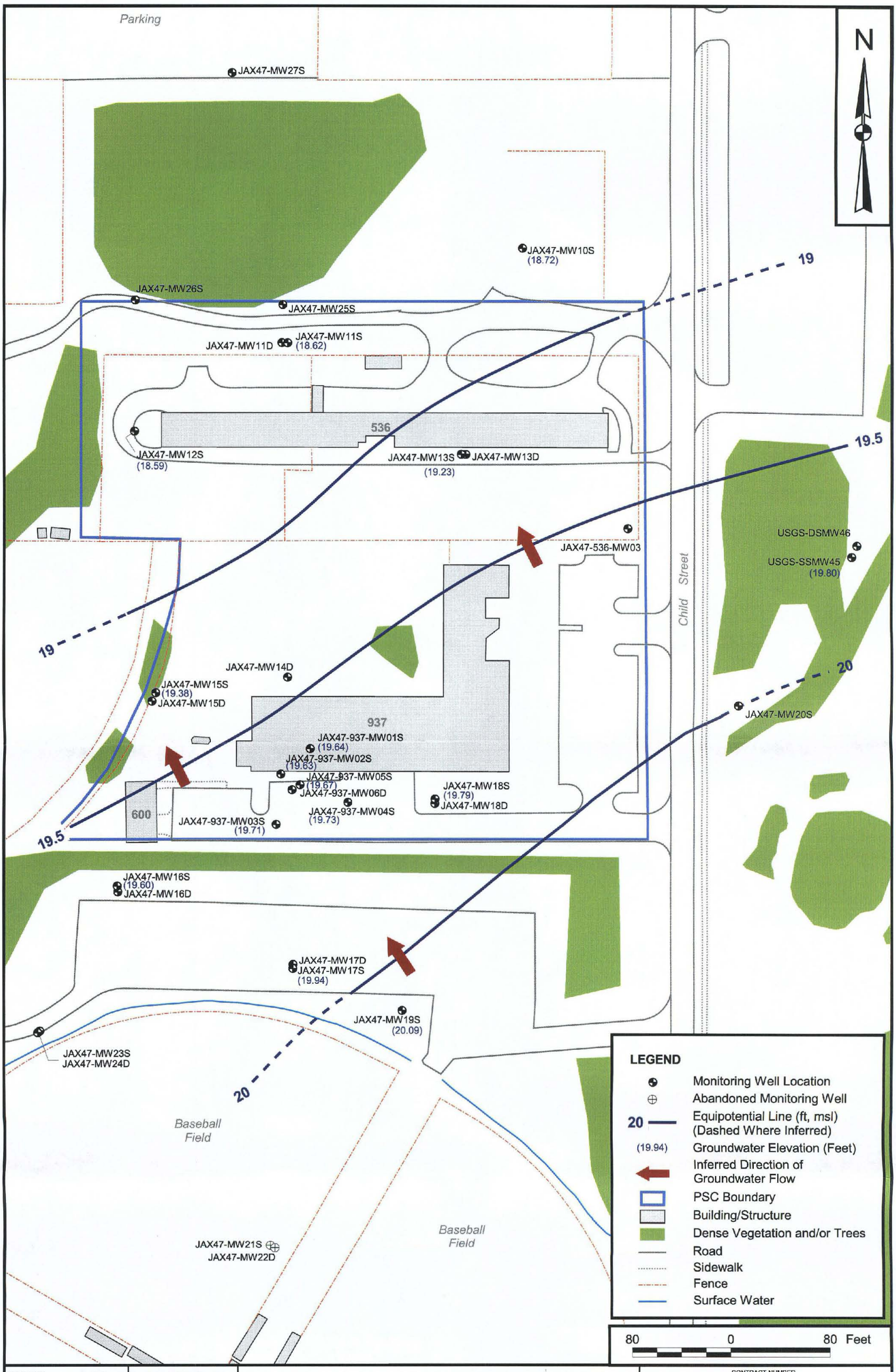
The shallow aquifer at PSC 47 is composed predominantly of fine and very fine grained sand and clayey sand from land surface to approximately 15 ft bls. Shallow groundwater is present under unconfined conditions and is typically encountered at depths ranging from approximately 2 ft bls to 7 ft bls. Generally, the water table is encountered nearest to ground surface in the area south of DVECC and farthest from ground surface north of the Pesticide Shop. Sediments penetrated between the water table and top of the weathered limestone during the RI appeared to be saturated.

2.2.8.2.1 Horizontal and Vertical Gradient in the Surficial Aquifer

During the RI field investigation, 18 shallow monitoring wells (12 to 15 ft deep), 1 intermediate depth well (total depth 25 ft bls), and 10 deep monitoring wells (42 to 63 ft deep) were installed. Monitoring well installation and development procedures are described in detail in Section 4.2.2.2.1. Depth-to-water measurements were obtained from some or all of these wells and from some or all of nine previously existing wells at or near PSC 47 on four occasions during the RI to estimate direction of groundwater flow beneath the site. A full discussion of the methodology employed in generating groundwater elevation contour (potentiometric) maps from depth-to-water measurements in monitoring wells is presented below in Section 4.2.2.2.3.

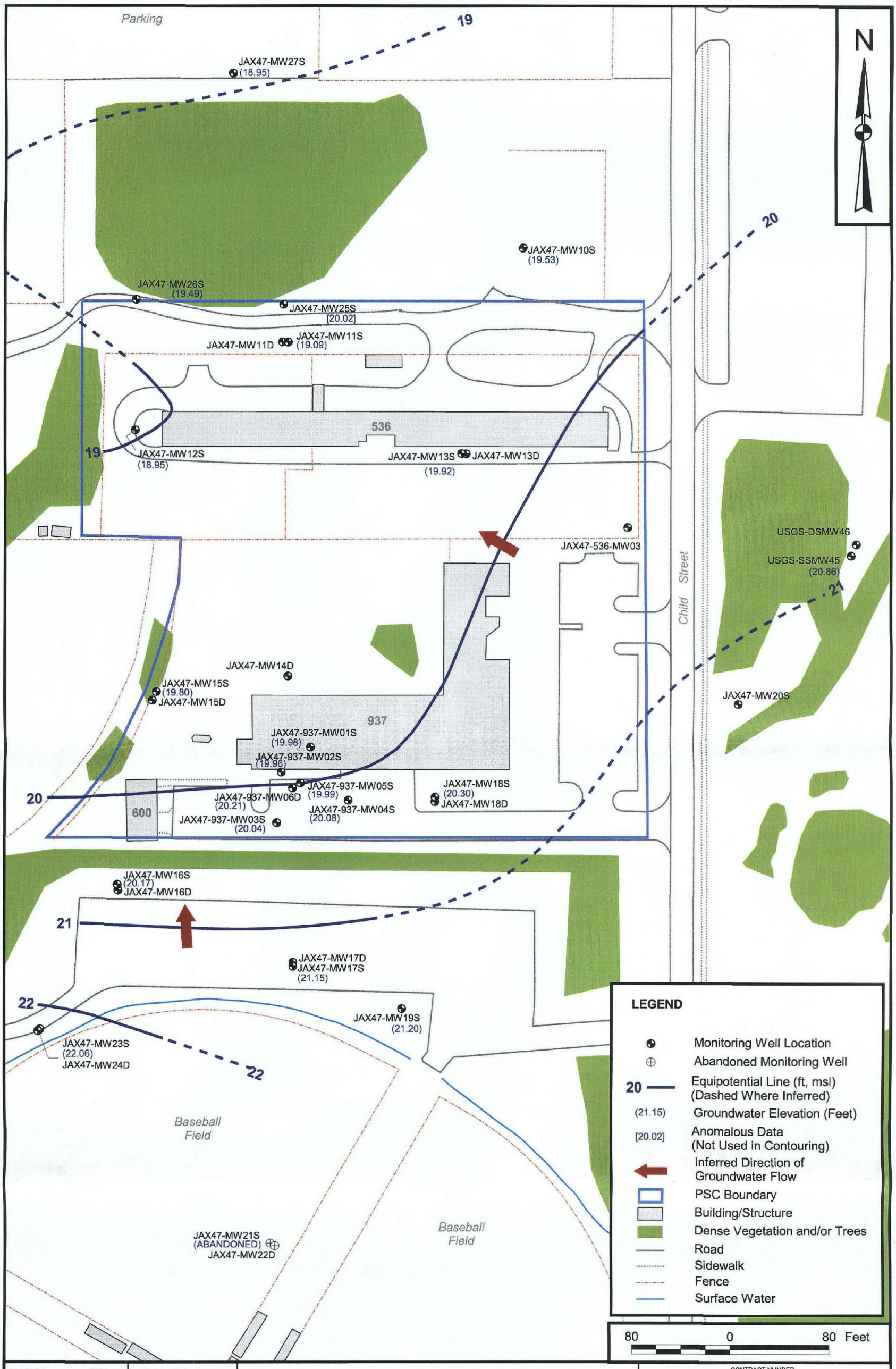
Potentiometric maps included in this report were generated from depth-to-water measurements obtained on April 12, 2002, July 15, 2003, and November 28, 2006. These three sample sets were selected because they were the most complete. Two potentiometric maps were generated from each data set, one showing estimated groundwater flow direction in the upper zone of the surficial aquifer [based on depth-to-water measurements in the shallow ("S") wells] and one showing flow direction in the deep zone of the surficial aquifer [based on depth-to-water measurements in the deep ("D") wells). Potentiometric maps showing inferred groundwater flow direction in the shallow zone are provided as Figures 2-7, 2-8, and 2-9 and those depicting inferred groundwater flow direction in the deep zone are provided as Figures 2-10, 2-11, and 2-12.

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR SHALLOW ZONE-GROUNDWATER CONTOURS-APRIL 12, 2002 5/02/07 SP

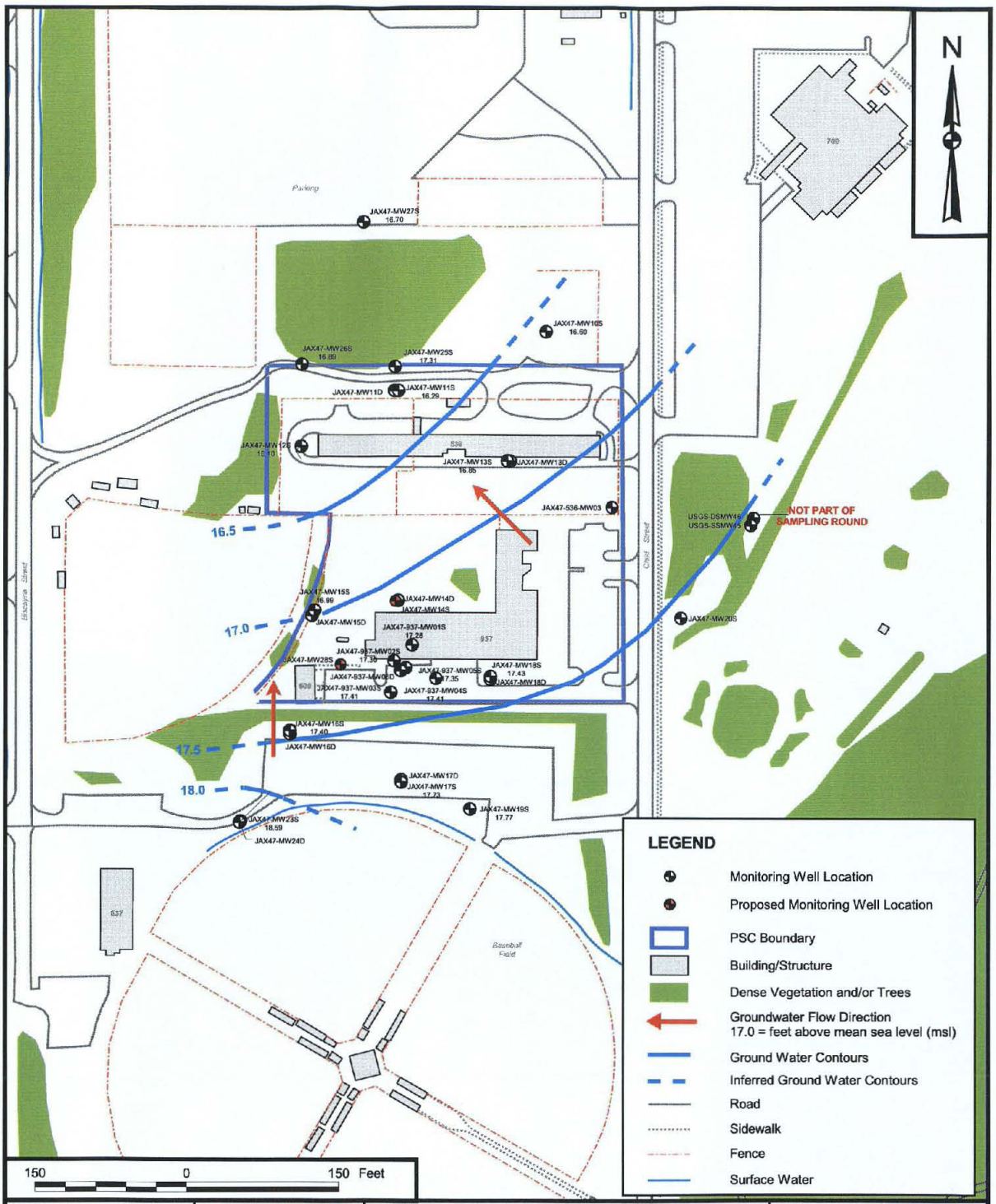


DRAWN BY J. LAMEY	DATE 7/31/03	GROUNDWATER ELEVATION CONTOUR MAP - SHALLOW ZONE	CONTRACT NUMBER 3996
CHECKED BY	DATE	APRIL 12, 2002	APPROVED BY — DATE —
COST/SCHEDULE-AREA		PSC 47	APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC	NAS JACKSONVILLE, JACKSONVILLE, FLORIDA	DRAWING NO. FIGURE 2 - 7 REV 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR SHALLOW ZONE-GROUNDWATER CONTOURS- JULY 15, 2003 5/02/07 SP



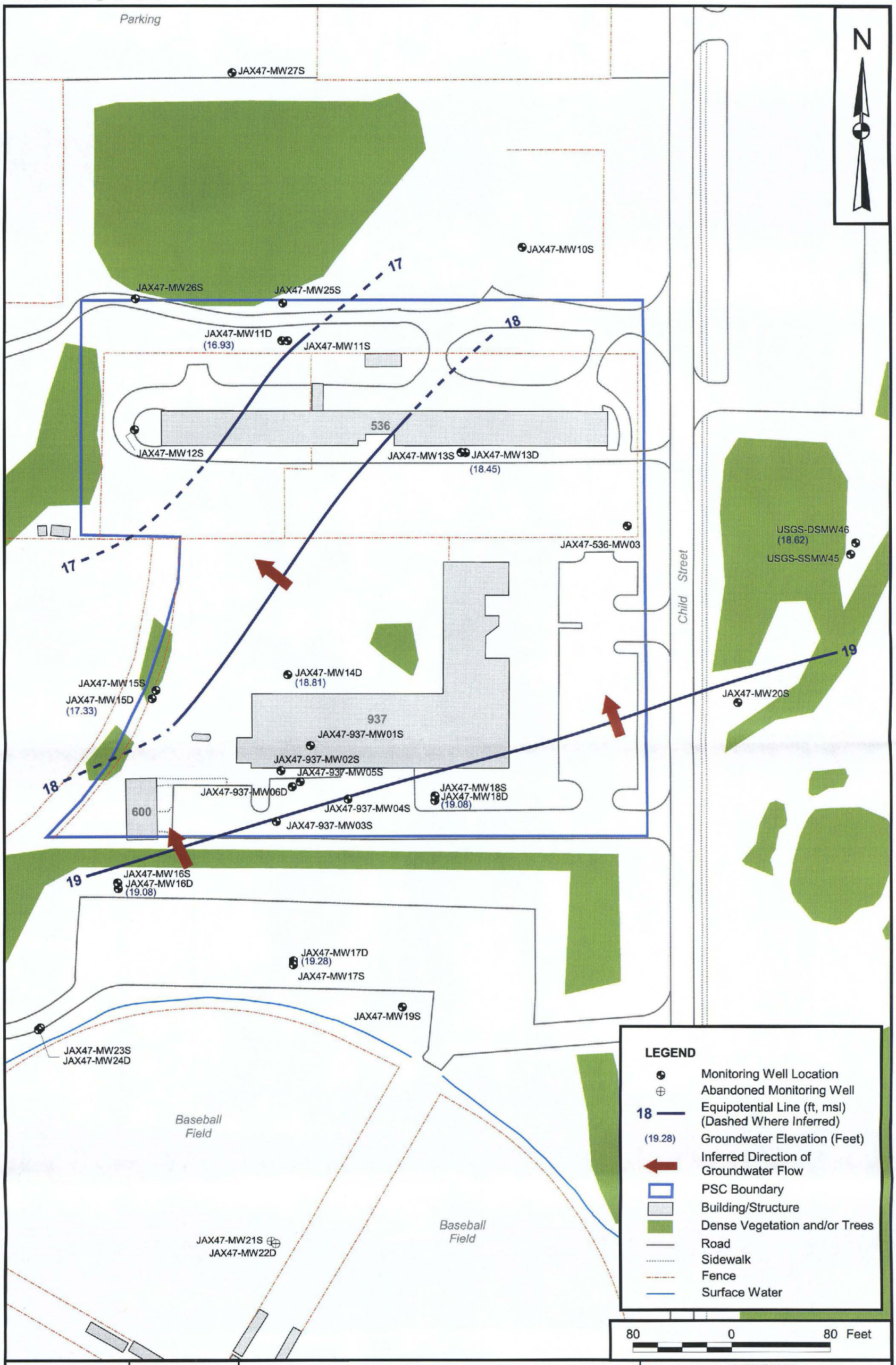
DRAWN BY J. LAMEY	DATE 7/31/03	GROUNDWATER ELEVATION CONTOUR MAP - SHALLOW ZONE	CONTRACT NUMBER 3996
CHECKED BY ____	DATE ____	JULY 15, 2003	APPROVED BY ____ DATE ____
COST/SCHEDULE-AREA		PSC 47	APPROVED BY ____ DATE ____
SCALE AS NOTED	NAVFAC	NAS JACKSONVILLE JACKSONVILLE, FLORIDA	DRAWING NO. FIGURE 2 - 8 REV 0



DRAWN BY: S. PAXTON — DATE: 11/09/06	NAVFAC	GROUNDWATER ELEVATION CONTOURS - SHALLOW ZONE NOVEMBER 27, 2006 PSC 47 NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER: 0497
CHECKED BY: C. METZ — DATE: 02/06/07			APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 2 - 9 — REV: 0

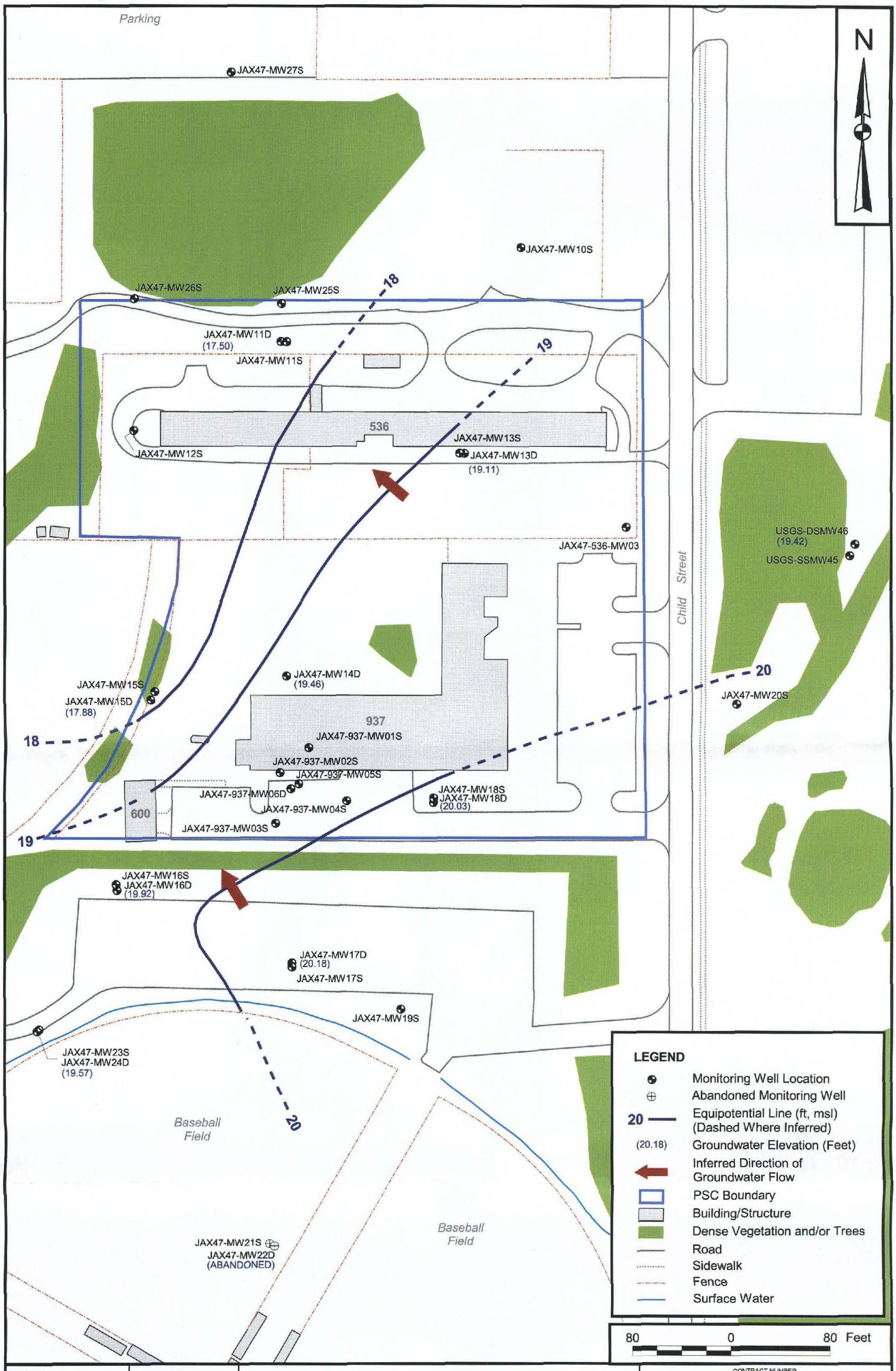
P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR UPDATED EXISTING MONITORING WELL LAYOUT - A SIZE 5/02/07 SP

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR DEEP ZONE - GROUNDWATER CONTOURS - APRIL 12, 2002 5/02/07 SP

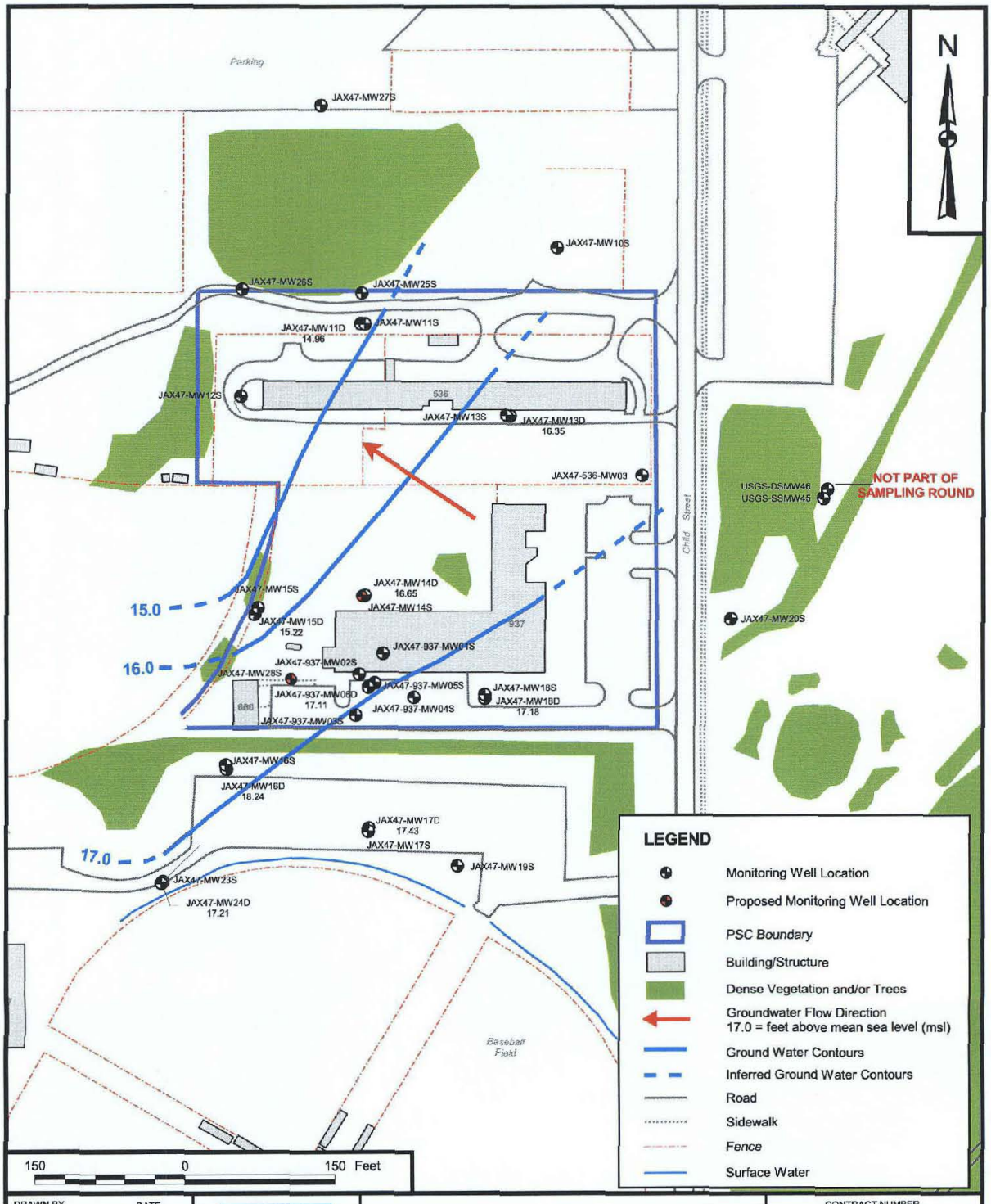


DRAWN BY: J. LAMEY	DATE: 7/31/03	GROUNDWATER ELEVATION CONTOUR MAP - DEEP ZONE	CONTRACT NUMBER: 3996
CHECKED BY: —	DATE: —	APRIL 12, 2002	APPROVED BY: — DATE: —
COST/SCHEDULE-AREA		PSC 47	APPROVED BY: — DATE: —
SCALE: AS NOTED	NAVFAC	NAS JACKSONVILLE, JACKSONVILLE, FLORIDA	DRAWING NO.: FIGURE 2 - 10 REV: 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR DEEP ZONE - GROUNDWATER CONTOURS - JULY 15 2003 5/02/07 SP



DRAWN BY J. LAMEY	DATE 7/31/03	GROUNDWATER ELEVATION CONTOUR MAP - DEEP ZONE	CONTRACT NUMBER 3996
CHECKED BY —	DATE —	JULY 15, 2003	APPROVED BY — DATE —
COST/SCHEDULE-AREA		PSC 47	APPROVED BY — DATE —
SCALE AS NOTED		NAS JACKSONVILLE, JACKSONVILLE, FLORIDA	DRAWING NO. FIGURE 2 - 11 REV 0



DRAWN BY S. PAXTON	DATE 11/09/06	GROUNDWATER ELEVATION CONTOURS - DEEP ZONE NOVEMBER 27, 2006 PSC 47 NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0497
CHECKED BY C. METZ	DATE 02/06/07		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 2 - 12 REV 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR GW ELEVATION DEEP ZONE 11272006 LAYOUT 5/02/07 SP

Results shown on these figures are in agreement with flow models generated by the USGS (Davis *et al*, 1996), which show groundwater flow direction in the upper and lower surficial aquifer beneath PSC 47 to be northwesterly.

There is a downward gradient in the surficial aquifer underlying PSC 47. Water table elevations in shallow wells average 1 to 2 ft higher than those in adjacent deep wells. The difference at the MW16 pair is the smallest of all, averaging less than 1 ft. The biggest differences are in the northern part of the PSC (MW11 and MW13).

2.2.8.2.2 Aquifer Characteristics in Upper and Lower Zones of Surficial Aquifer

Aquifer (slug) tests were performed at PSC 47 by Hal Davis of the USGS and a TtNUS representative on February 12, 2003. Tests were performed on 10 shallow monitoring wells, one intermediate well, and 6 deep wells installed during the RI. Results of the tests were documented in a report prepared by Mr. Davis. A copy of this report is provided as Appendix B.

Hydraulic conductivity (k) values calculated on the 10 shallow zone wells ranged from 3 ft per day (ft/day) to 7 ft/day and averaged 3.9 ft/day.

Flow velocity was calculated using the formula $v = k(h1-h2)/L/n$, where

v = horizontal component of groundwater
k = hydraulic conductivity
h1 and h2 = groundwater elevation at arbitrary points 1 and 2, respectively
L = the horizontal distance between arbitrary points 1 and 2
n = porosity

and

(h1 – h2)/L = the average hydraulic gradient (in feet per foot) as calculated from groundwater elevation data from arbitrary points 1 and 2.

A porosity of 0.3 (Freeze/Cherry, 1979) was assumed since materials encountered during investigation of the surficial aquifer were sandy clay and silty sand. Monitoring wells MW17S and MW15S were selected as arbitrary points 1 and 2, respectively, for estimation of flow velocity in the shallow zone of the surficial aquifer. The horizontal distance between these two points is approximately 251 ft. Using these points and groundwater elevation data from three separate dates, the average hydraulic gradient was calculated to be 0.0036 feet per foot. Based on the above assumed values, the USGS hydraulic conductivity values, and the calculated hydraulic gradient, the flow velocity (v) in the shallow zone of the surficial aquifer at PSC 47 was estimated to be 0.0468 ft/day or 17.08 ft per year (ft/yr) toward the northwest.

Flow velocity in the deep zone of the surficial aquifer was estimated to be 0.067 ft/day or 24.48 ft/yr toward the northwest using the same computational methods as those described for the shallow zone, with MW17D and MW15D used as the arbitrary control points and an average hydraulic conductivity value of 2.34 ft/day based on slug test results conducted on five deep monitoring wells.

3.0 PREVIOUS SITE INVESTIGATIONS AND REMEDIAL ACTIONS

Historical investigations and remediation activities performed at PSC 47 are detailed in this section. The information presented below is by document and in dated order from the earliest activities to the most recent. A summary of activities discussed in the sections below is presented in Table 1-1. Select illustrations from the documents cited below, which show background information pertinent to development of the RI/FS work plan, are provided in Appendix C.

It should be noted that the investigations and remedial measures discussed in this section were completed from 1995 to 1999. As such, different regulatory standards and terms were used. Soil standards used in this document have changed from Soil Cleanup Goals (SCGs) to SCTLs and groundwater standards have changed from Groundwater Guidance Concentrations (GGCs) to GCTLs. In addition, Clean Closure Target Levels (CCTLs) are referenced in RCRA documents for this site. These are concentrations believed to be based on regulatory standards and included in the RCRA permit. Regulatory criteria for the RI/FS are discussed in later sections of this document.

3.1 REMEDIATION WORK PLAN DVECC USED OIL TANK REMOVAL, BEI (SEPTEMBER 1995)

The document "Remediation Work Plan DVECC Used Oil Tank Removal," Revision 1 (BEI, 1995), was prepared by BEI to guide the activities associated with removal and decontamination of the pesticide tank and piping, in accordance with the FDEP-approved closure permit. In the document, BEI summarized the major elements of the proposed scope of work for removal and decontamination of the DVECC pesticide tank and associated piping, even though the title of the document referred to it as the "DVECC used oil tank." Other elements addressed in the report included plans for waste storage, transportation, and disposal, a sampling and analysis plan, a safety and heath plan, and a quality control plan.

3.2 TANK CLOSURE REPORT, RUST (JANUARY 1996)

Removal activities performed by BEI are documented in "Closure Activities Report and Certification for DVECC Tank and Drains at Building 937" submitted by RUST in January 1996. According to this report, the closure work was performed by BEI between October 16 and December 6, 1995. The fiberglass DVECC UST and associated piping, the hold-down concrete slab, and soil from around the UST and piping were removed. No other soil was removed from the piping or UST excavations. Groundwater was encountered at approximately 7 ft bls. RUST reported that even though the ". . .tank had no apparent fractures and the soil in the excavations was not discolored, pesticide contamination was detected. . . From the results contamination does exist in the soil and ground-water at the site and 'clean closure' was not achieved."

In fact, however, no pesticide concentrations exceeding residential or industrial SCTLs were reported in seven confirmatory soil samples analyzed. One beta-BHC value and several dieldrin values were reported on samples collected from the tank excavation at concentrations slightly exceeding leachability SCTLs, the most stringent of the screening criteria for these two constituents.

Five groundwater samples were also collected from the open excavation after tank removal and analyzed for TCL pesticides. Results of these analyses are shown on Figure 2-8 of the RI/FS Work Plan, included in Appendix C of this report. At least six constituents were reported at concentrations exceeding GCTLs in each sample, although the majority of the exceedances were qualified either as estimated values, as values reported with uncertainty near detection limits, or as values associated with Matrix Spike/Matrix Spike Duplicate (MS/MSD) non-compliance.

3.3 DVECC RCRA FACILITY INVESTIGATION, BRE (JANUARY 1997)

The Work Plan for Site Investigation for DVECC, dated December 1996 and prepared by BRE was intended to guide the investigation to prepare a Site Investigation Report and support RCRA closure of the DVECC site. The scope of work for the RCRA Facility Investigation (RFI) was established in this document.

In the Draft RFI Report (BRE, 1997), it was stated that during a Basewide Relative Risk Site Evaluation performed in 1996, three surface soil samples were collected and analyzed for VOCs, SVOCs, pesticides/PCBs, and 24 inorganic compounds. Analytical results indicated the presence of chlordane, dieldrin, 4,4'-DDE, and 2,2'-DDT.

Phase I of the RFI (BRE, 1997) included the advancement of five shallow borings (less than 15 ft bls) and one deep boring (30 ft bls). Soil samples were collected for fixed-base laboratory analysis at depths of 1 ft bls and 1 ft above the water table (approximately 3 ft bls) at each boring location. Monitoring wells were installed at the boring locations and groundwater samples collected from the wells were analyzed by a fixed-base laboratory. Based on Phase I results, eight additional borings (numbered 8 through 15) were installed during Phase II. Following are key results and conclusions reported in the RFI:

- Groundwater flow direction in the shallow surficial aquifer beneath the site was determined to be northeasterly.

- Several pesticides and one herbicide (2,4-D) were detected in the soil samples. Pesticide and herbicide concentrations reported in the samples collected 1 ft bls at the 14 boring locations are shown on Figure 4-1 of the RFI and those reported in the 3-ft bls samples are shown on Figure 4-2. These two figures are provided in Appendix C. In the near-surface samples (1 ft bls), 4,4'-DDT and

heptachlor were reported at concentrations exceeding industrial SCTLs in soils collected underneath the mixing room floor near the sink (Boring 1). 4,4'-DDT concentrations exceeding industrial SCTLs were also identified in two near-surface samples collected approximately 30 ft southwest of the removed DVECC tank (Borings 3 and 9). Residential SCTL exceedances reported for the shallow samples included 4,4'- DDD in Boring 1 and 4,4'-DDD and 4,4'-DDE in Boring 3.

No COCs were identified in the 1-ft samples collected in the area of the removed pesticide tank (Borings 5 and 6), but low levels of 4,4'-DDD, 4,4'-DDT, 4,4'-DDE, and chlordane (exceeding laboratory reporting limits, less than regulatory criteria) were reported in the 3-ft bls samples collected from these two borings. Highest concentrations in subsurface samples (3-ft bls) were recorded at Boring 3, southwest of the removed tank, where dieldrin was reported at a concentration exceeding its industrial SCTL, and 4,4'-DDT and 4,4'-DDD were reported at concentrations exceeding residential SCTLs.

- Groundwater samples were collected from the six monitoring wells installed in December 1996 at the locations of Borings 1 through 6. Pesticide and herbicide concentrations reported in these samples are shown in Figure 2-8 of the RI/FS Work Plan (TtNUS, 2000) along with the pesticide concentrations reported in groundwater samples collected from the open excavation immediately after tank removal (discussed in preceding section). A copy of this figure is provided in Appendix C. The following pesticide compounds were detected at concentrations exceeding GGCs in samples collected from MW3: DDD, DDT, dieldrin, beta-BHC, gamma-BHC (lindane) and delta-BHC. Concentrations of 4,4'-DDT slightly exceeding GGCs were also reported in MW4 and MW5. The herbicide 2,4-D was reported at concentrations exceeding its GGC of 70 micrograms per liter (µg/L) in samples collected from wells MW2, MW3 (highest reported 2,4-D concentration of 8,700 µg/L), MW5, and MW6.

- It was unlikely that leakage from the UST contributed to contamination of the soils in the area around Building 937, based on the condition of the tank during its removal.

- Given the industrial land use of the area, the human health risks (assumed by TtNUS to be associated with the soils) were acceptable based on USEPA standards (less than 1E-04).

3.4 RCRA APPLICATION FOR CLOSURE PERMIT, HRP SPECTRUM (HRP) (SEPTEMBER 1998)

In September 1998, HRP submitted a document to NAVFAC SE entitled "Application for Closure Permit, T-56 Engine Wash Area, Hangar 1000, and DVECC – Building 937." Much of the information reported in this document was a re-statement of investigative results and removal actions detailed in the above

sections. Subjects discussed in detail by HRP, which have not been previously mentioned in this report, include RCRA waste code listings for materials transported offsite during tank removal, results of BRE slug testing on monitoring wells around the DVECC tank, and the ramifications that previously-reported analytical results would have on the closure permit application.

Following is a summary of information presented in the HRP document:

- The DVECC tank was removed from service in 1989. The single pipe, which connected the drains to the tank, was sealed at this time. On April 14, 1994, a residual volume (approximately 15 gallons) of waste was removed from the tank and floor drains and the drains were capped with concrete.

- In October 1995, BEI excavated and removed the DVECC tank and associated drain piping. There were no reported tank fractures or discolored soil observed in the tank and piping excavation. Confirmatory soil and groundwater samples were collected and analyzed for organochlorine pesticides and PCBs (USEPA Method 8080), organophosphorus (OP) pesticides (USEPA Method 8141), and chlorinated herbicides (USEPA Method 8151). According to the permit application, beta-BHC, chlordane, 4,4'-DDD, 4,4'-DDT, 4,4'-DDE, dieldrin, endosulfan I, endrin, heptachlor, heptachlor epoxide, and 2,4-D exceeded their respective soil target concentrations. In addition, chlordane, 4,4'-DDD, 4,4'-DDT, 4,4'-DDE, endosulfan I, and endosulfan sulfate were detected at concentrations exceeding the groundwater target concentrations listed in the application.

In December 1996, 14 soil borings were advanced to evaluate soil quality. Soil borings 1 through 6 were converted to monitoring wells. The results indicated that the highest COC concentrations were beneath the former mixing room and approximately 30 to 60 ft southwest of the DVECC tank. The highest concentrations in groundwater were from the monitoring well at location 3.

- Groundwater flow beneath the site was reported to be to the north-northeast toward the Pesticide Shop. Groundwater flow west of the site was determined to be northwesterly and groundwater flow east of the site was determined to be easterly. Based on groundwater measurements from 1996, groundwater flow was reported to have a slope of 0.0015 feet per foot. Groundwater velocity was estimated at 0.193 ft/day using Darcy's Law.

- It is stated in the permit application text that the pesticide contamination, discovered during the DVECC tank removal, was not due to releases from the tank because the highest concentrations were not adjacent to the tank. Instead, it (pesticide contamination) was related to historic operation of the Pesticide Shop. Herbicide presence (2,4-D) was attributed to the ball fields located to the south and west, and its normal use on grass at the two buildings, 536 and 937.

- The DVECC UST was used to receive spills and rinsate waters from the mixing and storage areas in Building 937.

  - The RCRA waste codes for this material were as follows:

    1. D017 – Paint residue or sludge from industrial painting in mechanical or electrical products industry.

    2. F027 – Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)

    3. P004 – Aldrin.

  - The soil, concrete, asphalt drain piping, and the UST were disposed of as follows:

    1. F027 – Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)

    2. P004 – Aldrin.

    3. P050 – Endosulfan.

    4. P059 – Heptachlor.

    5. U060 – Benzene, 1,1'-(2,2-dichloroethyl-idene)bis[4-chloro-.

    6. U061 – DDD.

    7. U240 – Acetic acid (2,4-dichlorophenoxy)-, salts and esters.

    8. D017 – 2,4,5-trichlorophenoxypropionic acid [2,4,5-TP (Silvex)].

    9. D021 – Chlorobenzene.

    10. D030 – 2,4-Dinitrotoluene.

- Groundwater samples were analyzed for organochlorine pesticides and PCBs (USEPA Method 8080), OP pesticides (USEPA Method 8141), and chlorinated herbicides (USEPA Method 8151). Eleven compounds were identified. Six of these (chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, endosulfan I and endosulfan II) were reported at concentrations exceeding groundwater CCTLs. The other five compounds detected were delta-BHC, dieldrin, heptachlor, 2,4-D, and 2,4,5-TP (a.k.a. silvex).

- Six wells were installed as part of the RFI (reported above). Total depth of the shallow wells was 15 ft bls or less, and the total depth of the deep well (MW6) was approximately 35 ft bls. Monitoring well locations were as follows:

  - MW1 – in the former mixing room
  - MW2 – 12 ft northwest of former tank location
  - MW3 – 32 ft southwest of former tank location
  - MW4 – 42 ft southeast of former tank location
  - MW5 – in center of former tank location
  - MW6 – 7 ft southwest of MW5

- On December 23, 1996, groundwater samples were collected from the wells. No targeted constituents were reported at concentrations exceeding GCTLs in MW1. Compounds identified in the other five wells at concentrations exceeding GCTLS were as follows:

  - MW2: 2,4-D
  - MW3: 4,4'-DDT; 2,4-D
  - MW4: 4,4'-DDT; 4,4'-DDD; 4,4'-DDE; dieldrin; 2,4-D; alpha-BHC; beta-BHC; and gamma-BHC
  - MW5: 2,4-D
  - MW6: 2,4-D

- Heptachlor epoxide and 2,4-D were detected in MW1 and alpha-BHC was detected in MW2, both less than the target levels.

- There are six water supply wells on NAS Jacksonville. They are located several thousand ft from DVECC and are installed to depths ranging from approximately 400 to 1,200 ft bls.

- In December 1996, BRE performed slug testing of three wells (MW2, MW3, and MW6) at DVECC. They used AQTESOLV (Version 1.1) to analyze the resulting data. The hydraulic conductivity (k) for MW2 and MW3 were calculated to be 3.89EE-4 and 2.05EE-4 ft per second, respectively. The

hydraulic conductivity for MW6 could not be determined because the well recovered too quickly to provide accurate information. The average hydraulic conductivity for the aquifer was calculated as 2.97EE-4 using an arithmetic mean, which is equivalent to 25.67 ft/day.

3.5 SAMPLING EVENT REPORT, HARDING LAWSON ASSOCIATES (HLA) (FEBRUARY 1999)

Between April and August 1997, HLA conducted a field investigation covering a broad area surrounding the Pesticide Shop, including the grass area inside the "L" of the DVECC building. Fifty-six soil samples were collected from 31 locations. At six of the soil sampling locations, one sample was collected from either 0 to 1 ft bls or from 1 to 2 ft bls, and at the other 25 locations, samples were collected from both of these intervals. One sludge sample was collected from each of the soakage pits located south of Building 536 and two soil samples were collected from the drainage ditch bordering Child Street. Additionally, groundwater samples were collected from three micro monitoring wells located to the northwest, southwest, and southeast of the Pesticide Shop. Soil and groundwater samples were analyzed for all or some of the following parameters: TCL VOCs, SVOCs, pesticides/PCBs, herbicides, and TAL inorganics. Results of the investigation are summarized below and documented in a Sampling Event Report (SER) dated February 1999.

3.5.1 Soil Analytical Results

3.5.1.1 Pesticides/PCBs

All 56 soil samples were analyzed for pesticide\PCB compounds. Twenty pesticides were detected, 13 of which were reported at elevated levels (i.e, concentrations exceeding SCGs). The most significant levels were reported on the following: aldrin, alpha and gamma-chlordane, alpha- and beta-BHC, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, heptachlor, and heptachlor epoxide. Of these, the most frequently reported were, in order: 4,4'-DDE (55 of 56 samples), 4,4-DDT (54 samples), 4,4'-DDD (53), alpha- and gamma-chlordane (50), dieldrin (43), and heptachlor (27).

3.5.1.2 Herbicides

Fifty-four of the soil samples were analyzed for herbicides and 10 of these compounds were detected. Three herbicides, dinoseb, 2-methyl-4-chlorophenoxyacetic acid (MCPA), and 2-(2-methyl-4-chlorophenoxy) propionic acid (MCPP) exceeded concentrations attributable simply to weed control measures, according to HLA. Dinoseb was identified in 42 of the 54 samples analyzed, MCPA in 36 samples, and MCPP in 32 samples. Seven of the highest concentrations were detected south of the Pesticide Shop behind Building 937. The highest MCPA concentration was reported in the sample collected from the eastern soakage pit.

3.5.1.3 VOCs

Twenty-nine soil samples were analyzed for VOCs and 10 of these compounds were detected. Eight VOCs were detected at low concentrations in 4 of the 29 samples and two of the compounds detected (acetone and methylene chloride) are common artifacts of laboratory or decontamination procedures.

3.5.1.4 SVOCs

Forty-seven of the soil samples were analyzed for SVOCs. Two compounds were reported at moderately high concentrations: benzo(a)pyrene (in five samples) and n-nitro-di-n-propylamine (1 detection in a duplicate sample).

3.5.1.5 Inorganic Constituents (TAL Metals)

All 56 soil samples were analyzed for inorganic constituents. Lead was reported at an elevated concentration in the eastern soakage pit sample and arsenic was detected at an elevated level in the western soakage pit sample. No other reported values were significantly above background.

3.5.2 Groundwater Analytical Results

Groundwater analytical results reported by HLA are illustrated on Figure 2-9 of the RI/FS Work Plan. A copy of this figure is provided in Appendix C. Fifteen pesticide compounds, one herbicide (MCPA), two VOCs (benzene and TCE), two SVOCs (2,4,5-trichlorophenol and naphthalene), and five TAL metals were reported at concentrations exceeding Florida GGCs in groundwater samples. Following is a summary of groundwater analytical results reported on each of the three samples analyzed.

- MW1 (northwest of Pesticide Shop) – three pesticides (4,4'-DDD, 4,4'-DDE and 4,4'-DDT) and one TAL metal (manganese) were reported at concentrations exceeding the GGCs.
- MW2 (southwest of Pesticide Shop) – 13 pesticides and 3 TAL metals (aluminum, antimony, and arsenic) were detected at levels exceeding GGCs.
- MW3 (southeast of Pesticide Shop) – six pesticides, MCPA, the two VOCs and two SVOCs mentioned above, and iron were detected at levels exceeding GGCs.

HLA performed prolonged low-flow purging prior to sampling the three monitoring wells and was unable to attain turbidity readings below 31 nephelometric turbidity units (NTUs) at MW02 or below 15 NTU at MW03. It is possible, therefore, that some of the detected pesticide levels reported in these two wells were elevated as a result of high turbidity and do not represent solubilized compounds. Similarly, metals exceedances reported in the samples may have been due to the presence of suspended solids.

3.6 SOIL REMOVAL AT PSC 47 PESTICIDE SHOP (BEI, 1999)

In early 1999, approximately 1300 cubic yards of surface soil was removed from an area surrounding the western half of the Pesticide Shop and transported offsite for disposal. The area excavated was adjacent to the asphalt apron surrounding the building. Material underlying the asphalt was not disturbed. Four separate areas were delineated for either 1-, 2-, or 3-ft deep excavation based upon previous soil analyses. The excavation areas and post-excavation soil sampling locations are shown on Figure 2-4 of the RI/FS Work Plan (TtNUS, 2000). A copy of this figure is provided in Appendix C. The removal action also included abandonment of two of the aforementioned shallow monitoring wells installed by HLA (MW01 and MW02), excavation and disposal of materials from the soakage pits, soil sampling for laboratory analysis, and site restoration. The objective of this action was to "reduce the risks posed by contaminants of concern to acceptable levels." Details of the work performed are described in the "Completion Report for Soil Removal at Potential Source of Contamination 47, Pesticide Shop", submitted to NAVFAC SE by BEI in July 1999.

Post-excavation soil samples were retrieved from the floor of the excavation based upon a 25-ft square grid and from the sidewalls based upon total excavation perimeter. In all, 28 floor samples and 26 sidewall samples were collected for analysis. One sample was collected from the floor of each soakage pit and several samples (seven total) were collected from the sidewalls of the soakage pits. Sidewall samples from the soil removal area were collected 6 inches above the floor of the excavation. All samples were analyzed for pesticide compounds by USEPA Method 8081. As shown in Figure 2-5 of the RI/FS Work Plan (Appendix C), several pesticide compounds, including various BHC isomers, heptachlor, heptachlor epoxide, dieldrin, endrin, 4,4-DDD, 4,4'-DDE, 4,4'-DDT, and chlordane, were detected in the soil samples. Concentrations exceeding industrial SCTLs are illustrated in Figure 2-6 of the RI/FS Work Plan (Appendix C), and concentrations exceeding leachability SCTLs (based on groundwater) are shown in Figure 2-7 of the RI/FS Work Plan (Appendix C).

3.7 PRELIMINARY ASSESSMENT

Information presented in this section is intended to provide a conceptual model of the contaminants documented in each environmental medium based upon historical operations, visual observations made prior to the RI field investigation, and previous assessment and remedial activities performed at the site.

3.7.1 Surface Water

Surface water at the site consists primarily of stormwater runoff that is transported via sheet flow to unpaved areas to the north, west, and south of PSC 47. During rain events, stormwater from the adjacent road and east side of PSC 47 is channeled to the south via the drainage ditch. During drier

periods, standing water is not typically present. Surface water samples have not been collected from this ditch in any previous investigations.

3.7.2 Sediment

Sediment is assumed to be a homogeneous layer beneath a fluid medium. Therefore, sediment is restricted to locations where water exists such as ditches, creeks, rivers, and lakes. The only location where sediment could be present at PSC 47 is in the stormwater ditch along Child Street. Samples have been collected from this ditch in the past (HLA, 1999), but since the samples were collected during dry periods, they were classified as *soil*, not *sediment*. As a result, sediment, per se, does not exist at the site.

3.7.3 Soil

Prior investigations at PSC 47 have revealed soil contamination. Previous removal/remedial actions associated with the DVECC tank and the surface soil contamination at the Pesticide Shop have eliminated some of the contamination in the surface and subsurface soil at PSC 47. However, post-excavation analyses on bottom and sidewall soil samples from the area surrounding the Pesticide Shop indicated that soil contamination remains at the site. Figure 2-5 of RI/FS Work Plan (Appendix C) presents the post-excavation pesticide concentrations in the floor and sidewall soil samples, Figure 2-6 (Appendix C) presents concentrations exceeding industrial SCTLs, and Figure 2-7 (Appendix C) presents concentrations exceeding leachability (based on groundwater) SCTLs.

Pesticide concentrations in soil samples collected in the DVECC tank area after removal of the tank are shown in Appendix C [Figures 4-1 and 4-2 of the RFI (BRE, 1997)]. One or more pesticide compounds were reported at concentrations exceeding SCTLs in near-surface soil (1 ft bls) collected approximately 20 ft north and 30 ft southwest of the former DVECC tank location, but no exceedances were reported in samples collected from the excavated area. Three exceedances were also documented by BRE in subsurface soil samples (3 ft bls) collected from the location 30 ft southwest of the removed tank.

3.7.4 Groundwater

Prior investigations conducted around the former DVECC tank location involved groundwater sampling from the open excavation after tank removal and from six monitoring wells (five shallow, one deep) subsequently installed in the area. Constituent concentrations exceeding current Florida GCTLs reported in these groundwater samples are shown in Figure 2-8 of the RI/FS Work Plan, included in Appendix C of this report. Groundwater in the vicinity of the Pesticide Shop was not thoroughly characterized, but analytical data presented by HLA (1999) from three widely-spaced monitoring wells (two of which are now

abandoned) provides an estimate of groundwater quality in this area (see Figure 2-9 of RI/FS Work Plan in Appendix C).

Analytical results indicate that pesticide and herbicide compounds in groundwater at concentrations exceeding FDEP GCTLs at PSC 47. VOC contamination has also been reported near the southeastern corner of the Pesticide Shop. The NAS Jacksonville Partnering Team required that additional groundwater sampling points (i.e., monitoring wells) be placed in and around the two properties to fully assess groundwater quality.

3.8 RI ASSESSMENT ACTIVITIES

The Partnering Team agreed that the next logical step in addressing PSC 47 contamination was to perform an RI to delineate remaining areas of soil contamination, and to establish a better understanding of groundwater quality in the area by expanding the existing monitoring well network both laterally and vertically. RI assessment methods are presented in the following two sections.

4.0 RI/FS FIELD ACTIVITIES

4.1 RI/FS APPROACH

RI/FS field activities were conducted at PSC 47 in three phases. During Phase I, surface and near-surface soils were collected for laboratory analysis using a stainless hand auger assembly, and an extensive DPT investigation was performed to establish a site lithologic profile and to develop a vertical profile of groundwater quality. Soil samples from 6 inches below surface at each location were analyzed for TCL pesticides by a mobile laboratory. If contaminants were identified in the surface sample, additional samples were collected at 1-ft vertical intervals until no COCs were identified in a sample or until the water table was encountered. However, due to a larger than expected site screening effort, many samples collected during Phase I were submitted to a fixed-base laboratory.

Groundwater grab samples were collected from 4-ft vertical intervals during DPT operations. At most locations, samples were collected from three discrete depths labeled “shallow” (uppermost occurrence of groundwater), “intermediate”, and “deep” within the surficial aquifer. The surficial aquifer averages approximately 50 ft in thickness beneath PSC 47. All groundwater DPT grab samples were analyzed for TCL pesticides and a select number of samples were analyzed for other COCs. Most of the DPT groundwater samples were analyzed by a mobile laboratory.

Phase II entailed installation and sampling of 14 shallow monitoring wells, 1 intermediate depth monitoring well, and 9 deep monitoring wells in three separate site mobilizations. Samples were also collected from seven existing wells located at PSC 47 and two existing USGS wells located across Child Street from the subject site.

Phase III entailed installation and sampling of four shallow monitoring wells, 1 deep monitoring well, 29 existing site montioring wells, and 1 existing USGS monitoring well. The intent of the groundwater sampling was to confirm previously reported groundwtater concentrations and to further define the existing contaminant plume. Soil samples were collected from 58 different locations to complete the vertical and/or horizontal delineation of either pesticide and/or arsenic contamination.

All phases of the investigation involved multiple stages in which the network of sampling points was expanded based upon incoming results from previous stages. Phase I began on June 25, 2001 and concluded on December 21, 2001 and was completed in two site mobilizations. Phase II was completed in several stages spanning the time period from March 18, 2002 to July 15, 2003. Phase III was completed in sevaral stages spanning the time period from November 29, 2006 to March 16, 2007.

The scope-of-work and objectives of the RI/FS are presented in Section 1.4. In order to achieve the project objectives, the NAS Jacksonville Partnering Team devised an approach during the formulation of the project DQOs that would define the lateral and vertical presence of pesticide compounds in soil by expanding upon existing sampling performed by BEI (1999), HLA (1999), and BRE (1997) and generating a profile of COC (primarily pesticide, secondarily VOC/SVOC) contamination in groundwater underlying PSC 47.

Soil sampling conducted by BEI after the removal action in early 1999, and by HLA during a previous soil quality investigation, indicated that areas of pesticide-contaminated soil remained at the PSC. Historical groundwater analytical data was considered insufficient to characterize groundwater quality in the area potentially affected by historical site operations. As a result, the RI activities included “step out” soil sampling beginning at the perimeter of known contamination, and installation of an expanded monitoring well network to define the three-dimensional boundaries of degraded groundwater underlying PSC 47.

The analytical program was designed to screen media for known COCs. The most pervasive COCs identified at the site before initiation of the RI/FS were organochlorine (TCL) pesticides, followed by TCL VOCs/SVOCs and TCL herbicides. The NAS Jacksonville Partnering Team determined that screening of the site for OP pesticides, dioxins, PCBs, and TAL inorganic constituents (i.e., metals) should be performed on a small fraction of the samples to assure evaluation of all potential contaminants. The mobile laboratory was employed strictly to define the nature and extent of potential TCL pesticide contamination in soil and groundwater site-wide and to determine the magnitude and extent of VOC contamination (groundwater only) in limited areas near the southeast corner of Building 536 and in the vicinity of the DVECC tank. Split samples were collected from approximately 10 percent of the groundwater samples analyzed by the mobile laboratory and sent to a fixed-base laboratory for analysis of TCL pesticides and VOCs for verification purposes. Select samples were also analyzed by the fixed-base laboratory for additional COCs (i.e., OP pesticides, TCL herbicides, dioxins, TCL SVOCs, and PCBs), which were either previously reported at low concentrations or were only identified in a limited area. During Phase II, permanent monitoring wells were installed at locations and to total depths considered optimum based upon analytical data current at the time, and supplemental soil and groundwater sampling was performed as needed to bridge gaps in the analytical record.

4.2 RI FIELD ACTIVITIES

A summary of work performed during the RI field investigation is provided in Table 4-1.

Table 4-1
Summary of Assessment Activities Performed During RI

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Phase I		
Date(s)	**Field Activities**	**Laboratory Analyses**
June 25 through July 6, 2001	Completion of 38 DPT borings to 50 ft bls or less using GeoProbe®; collection of soil samples from DPT locations using hand auger and collection of groundwater grab samples from various depths using retractable screen attached to the DPT equipment.	MOBILE LABORATORY: • SOIL → 35 samples from 28 DPT locations collected above the water table and analyzed for TCL pesticides (Pest). • GROUNDWATER → 104 samples (34 shallow, 35 intermediate, 35 deep) analyzed from 35 DPT locations for TCL Pest. → 9 samples (3 shallow, 3 intermediate, 3 deep) analyzed for abbreviated list of VOCs. FIXED-BASE LABORATORY (Samples collected from 12 DPT locations.) • SOIL → no analyses. • GROUNDWATER → 14 samples analyzed (7 shallow, 4 intermediate, 3 deep) - All 14 for TCL Pest, OPPs, VOCs, SVOCs, and PCBs. - 10 (6 shallow, 1 intermediate, 3 deep) for TCL herbicides. - 4 (3 shallow, 1 deep) for dioxins.
December 18 to 20, 2001	Completion of 12 additional DPT borings to depths 42 ft bls or less for the purpose of groundwater grab sampling; collection of groundwater grab samples at 9 locations previously sampled and of soil samples at 5 locations previously sampled.	FIXED-BASE LABORATORY: • SOIL → 13 samples analyzed. - All 13 for TCL Pest. - 4 for VOCs, SVOCs, PCBs, and OPPs. • GROUNDWATER → 35 samples analyzed (15 shallow, 13 intermediate, 7 deep) - 15 for TCL VOCs only. - 14 for TCL Pest only. - 6 for TCL VOCs and TCL Pest.

See notes at end of table.

Table 4-1 (Continued)
Summary of Assessment Activities Performed During RI

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Phase II		
Date(s)	**Field Activities**	**Laboratory Analyses (Fixed-base Only)**
March 18 through April 12, 2002	Installation and development of 10 shallow (12 to 15 ft bls) monitoring wells and 7 deep (40 to 60 ft bls) monitoring wells; collection of groundwater samples from these wells, from 6 existing wells around the former DVECC pesticide tank, from 1 existing microwell southeast of the Pesticide Shop, and from 2 existing USGS wells east of Child Street.	GROUNDWATER: (26 sample sets analyzed) • All 26 sample sets analyzed for TCL Pest, OPP Pest, TCL VOCs, TCL herbicides and the following NA parameters: total organic carbon, methane/ethane/ethene, sulfide, anions (nitrate/nitrite/phosphate/sulfate/ chloride), total biological oxygen demand (TBOD), ammonia, TKN, chemical oxygen demand (COD), iron, and manganese. • 6 sample sets analyzed for additional parameters TCL SVOCs, PCBs, and TAL metals.
November 4 through November 12, 2002	Installation, development, and groundwater sampling of 5 additional monitoring wells (3 shallow and 2 deep) around perimeter of well network.	GROUNDWATER: • 5 sample sets analyzed for TCL Pest and TCL VOCs.
December 11, 2002	Completion of 5 shallow hand auger borings and collection of soil samples for laboratory analysis.	SOIL: • 6 samples analyzed for TCL Pest.
January 15 through January 20, 2003	Installation, development, and groundwater sampling of 2 additional shallow monitoring wells; collection of soil samples from 5 hand auger borings.	SOIL: • 5 surface samples analyzed for TCL Pest. GROUNDWATER: • 2 sample sets analyzed for TCL Pest and TCL VOCs.

See notes at end of table.

Table 4-1 (Continued)
Summary of Assessment Activities Performed During RI

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Phase II		
Date(s)	**Field Activities**	**Laboratory Analyses (Fixed-base Only)**
January 28 through January 30, 2003	Hand auger borings for supplemental soil sampling.	SOIL: • 3 samples analyzed for TCL Pest.
February 12, 2003	Slug tests performed on 9 monitoring wells.	No laboratory analyses.
March 3, 2003	Supplemental groundwater sampling of one shallow monitoring well.	GROUNDWATER: • 1 sample analyzed for TCL Pest.
July 15, 2003	Water levels measured at 30 monitoring wells in network for generation of groundwater flow maps.	No laboratory analyses.
November 27 through December 8, 2006	Installation and development of 2 shallow monitoring wells; collection of groundwater samples from these newly installed wells, from 29 existing wells around Buildings 536 and 937, and from 1 existing shallow USGS wells east of Child Street. Collected soil samples from 50 locations to further define pesticide and arsenic contamination.	GROUNDWATER: (26 sample sets analyzed) • All 26 sample sets analyzed for TCL Pest, OPP Pest, TCL VOCs, TCL herbicides and the following NA parameters: total organic carbon, methane/ethane/ethene, sulfide, anions (nitrate/nitrite/phosphate/sulfate/ chloride), total biological oxygen demand (TBOD), ammonia, TKN, chemical oxygen demand (COD), iron, and manganese. • 6 sample sets analyzed for additional parameters TCL SVOCs, PCBs, and TAL metals.

See notes at end of table.

Table 4-1 (Continued)
Summary of Assessment Activities Performed During RI

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Phase III		
Date(s)	**Field Activities**	**Laboratory Analyses (Fixed-base Only)**
March 2 through March 9, 2007	Installation, development, and groundwater sampling of 3 additional monitoring wells (2 shallow and 1 deep). Collected 10 soil samples from 7 locations to complete horizontal As and Pesticide delineation.	GROUNDWATER: • 2 sample sets analyzed for TCL VOCs, TCL SVOCs, TCL Pest, and arsenic. • 1 sample set analyzed for arsenic only. SOIL: • 9 samples analyzed for arsenic. • 1 sample analyzed for TCL Pest.
March 18, 2007	Collected 2 soil samples from 1 location beside wells MW17S and MW17D	SOIL: • 1 sample analyzed for TCL VOCs, TCL SVOCs, TCL Pest, and TCL Herb.
3-Apr-07	Sample 4 shallow wells at Building 937 with highest Arsenic concentrations	GROUNDWATER: • 4 sample sets analyzed for total As, As speciation, TSS, and TDS

Notes:
DPT = Direct Push Technology
ft = Feet or Foot
bls = Below Land Surface
TCL = Target Compound List
Pest = Pesticides
VOCs = Volatile Organic Compounds
OPPs = Organophosphorus Pesticides
SVOCs = Semivolatie Organic Compounds
PCBs = Polychlorinated Biphenyls
DVECC = Disease Vector Ecology and Control Center
USGS = United States Geological Survey
TAL = Target Analyte List
TBOD = Total Biological Oxygen Demand
COD = Chemical Oxygen Demand

4.2.1 Phase I Investigation

4.2.1.1 Soil Sampling

A total of 48 grab soil samples were collected and analyzed during Phase I. Sampling and decontamination procedures were performed in general accordance with TtNUS' approved Comprehensive Quality Assurance Plan (CompQAP) Number 980038 and TtNUS' site-specific Quality Assurance Project Plan (QAPP) for PSC 47. Borings from which soil and/or groundwater grab samples were collected were labeled sequentially beginning with "SB01". Soil sample designations included the PSC ID (prefix), boring number, depth to top of sampling interval, and date of collection (suffix). For example, the sample collected at SB10 between 2 and 3 ft bls on June 30, 2001 was designated JAX47-SB10-S-02-063001.

During the DQO process, the NAS Jacksonville Partnering Team selected 31 specific locations "and others as determined during field activities" for collection of soil samples and groundwater grab samples during Phase I. Some soil sampling locations were selected because of proximity to previously identified hotspots and others were selected to determine presence or absence of COCs in areas not previously investigated in and around PSC 47.

During the first stage of the Phase I investigation (June 25 to July 6, 2001), "surface soil" samples (0-6 inches bls) were collected at 28 of the 31 pre-selected boring locations and submitted to KB Labs (mobile laboratory) for TCL pesticide analysis. Results of these analyses necessitated the collection and analysis of seven subsurface samples (1 to 3 ft bls) from five of these locations. Thirteen (13) additional soil samples were collected during the second stage of the Phase I investigation (December 18 to December 20, 2001) and shipped to Katahdin Analytical Services, Inc. (fixed-base laboratory) for analysis. Seven were surface soil samples from locations other than DPT boring locations and were analyzed only for TCL pesticides, three were surface soil samples from locations previously sampled, and three were subsurface samples from locations previously sampled. Re-sampling of locations for TCL pesticides was performed to evaluate agreement between mobile and fixed-base laboratory analytical procedures. Other re-sampling was performed for the purpose of analyzing additional COCs.

4.2.1.2 Site Lithologic Profile – Continuous Core Sampling

During the Phase I investigation, continuous core samples were collected from ground surface to 48 ft bls at five site locations using the GeoProbe®. Please refer to Section 2.2.6 for a discussion describing sample locations and core sampling methodology and to Appendix A to examine the soil boring logs generated from these five continuous core samples. Cross-sections generated from the boring logs are provided as Figures 2-5 and 2-6.

4.2.1.3 Groundwater Sampling

4.2.1.3.1 DPT Methodology and Sample Nomenclature

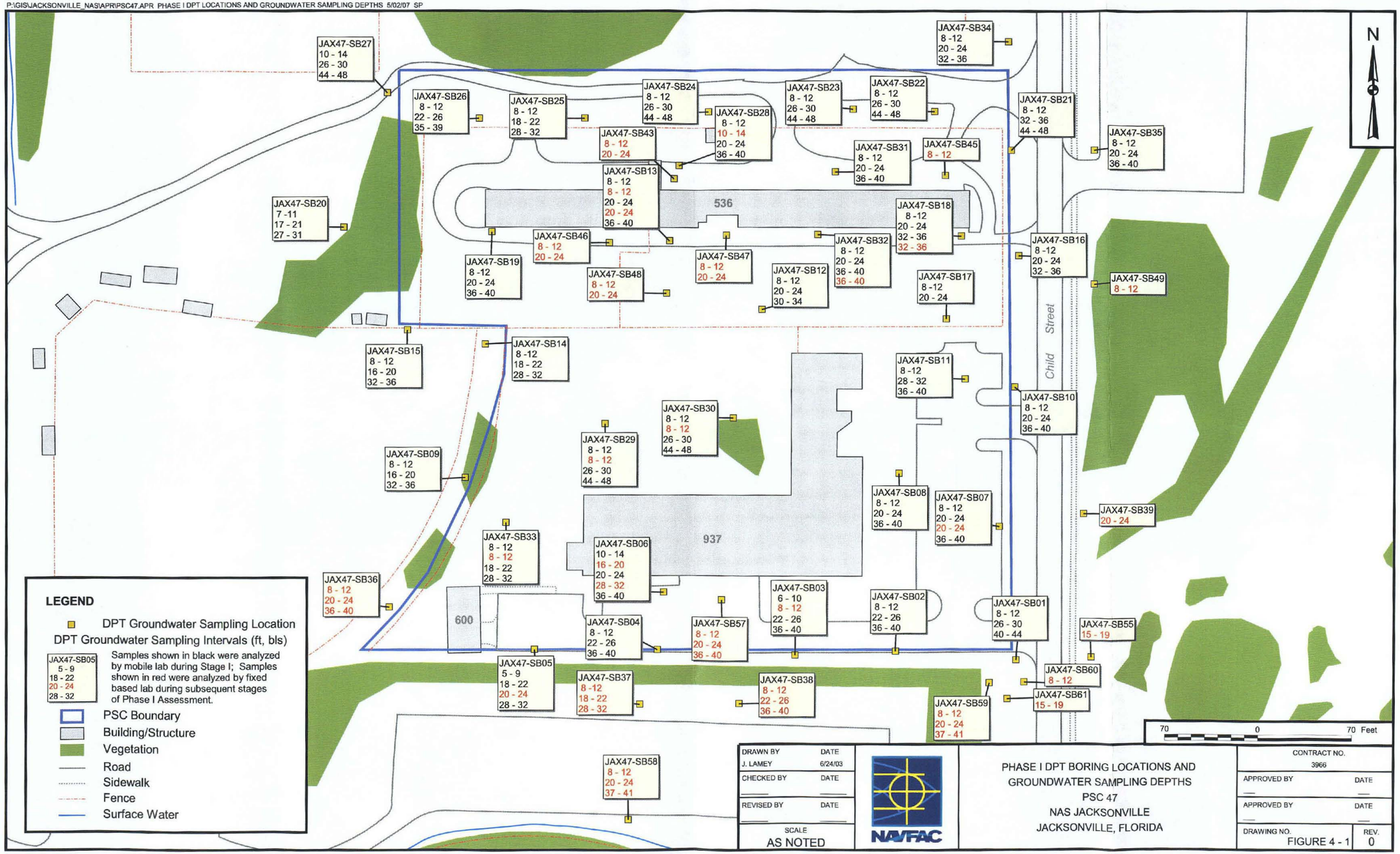
At each DPT location, including those selected for lithologic profiling, groundwater grab samples were collected, in order, from deepest to shallowest. Borings were advanced to maximum depths of 48 ft bls. Altogether, groundwater samples were collected by DPT at 51 locations during the Phase I investigation. These locations and the depth intervals from which groundwater samples were collected are shown on Figure 4-1. To collect samples, a 1-inch diameter, 4-ft long stainless steel retractable well screen was loaded into the lead section of drive rod attached to the end of the GeoProbe drill string. When the desired depth was reached, the 4-ft screen was retracted allowing influx of groundwater. Groundwater was then purged from the well screen using a peristaltic pump with attached Teflon® tubing until turbidity was low enough to allow for sample analysis (based on visual observation). If turbidity could not be lowered to acceptable levels, or if the sampling interval yielded insufficient water volume, the screen was pulled up 4 ft and another attempt was made to collect a sample. The process of pulling up in 4-ft increments was repeated until water volume and clarity were acceptable enough for sample analysis. It should be noted, therefore, that the terms *shallow, intermediate*, and *deep* in this discourse refer to relative groundwater sampling depths at particular locations and not to designated, non-overlapping depth zones within the surficial aquifer. Intervals designated as “deep” samples ranged from 27 ft bls to 48 ft bls, “intermediate” samples ranged from 15-19 ft bls to 32-36 ft bls and “shallow” samples ranged from 5 ft bls to 14 ft bls.

Groundwater grab samples were designated similarly to soil samples. The characters in the designation represented, in order, site name, soil boring ID number, sampling medium, top of 4-ft sampling interval, and date of collection. For example, the deep groundwater sample (3 to 36 ft bls) collected at SB15 on June 29, 2001 was designated JAX47-SB15-G-32-062901.

4.2.1.3.2 Stage One Investigation (June 25 through July 6, 2001)

Groundwater grab samples were collected at 38 locations using DPT (GeoProbe®) during Phase I/Stage I of the RI investigation. At most locations, groundwater samples were collected from three 4-ft intervals within the surficial aquifer using this method. The mobile laboratory analyzed groundwater samples collected from 35 of the DPT borings. Analysis was also performed by the mobile laboratory on samples collected from the seven existing permanent monitoring wells at PSC 47, six in the vicinity of the DVECC tank (MW01S through MW06D), and one located southeast of the Pesticide Shop (MW03S). A total of 111 groundwater samples were analyzed by the mobile laboratory for TCL pesticides (USEPA Method 8081A). Samples from three select DPT borings and from the seven existing permanent monitoring wells were also analyzed for an abbreviated list of VOCs, including naphthalene compounds,

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR PHASE I DPT LOCATIONS AND GROUNDWATER SAMPLING DEPTHS 5/02/07 SP



chlorinated hydrocarbons [trans- and cis-DCE, TCE, tetrachloroethene (PCE), and vinyl chloride], and petroleum hydrocarbons [benzene, ethylbenzene, toluene, and total xylenes (BTEX)]. Samples from the remaining three DPT borings, completed during Stage I after departure of the mobile laboratory, were sent to a fixed-base laboratory for analysis of TCL pesticides, TCL VOCs, and some or all of the following: OP pesticides, TCL herbicides, dioxins, PCBs, and SVOCs.

4.2.1.3.3 Stage II Investigation (December 18 through 20, 2001)

Additional groundwater samples were collected and shipped to Katahdin Analytical Services, Inc. (Katahdin) for analysis during Phase I/Stage II of the RI field investigation (December 18 to 20, 2001). The objective of Stage II groundwater sampling was to define the lateral and vertical extent of contamination surrounding peripheral hotspots identified during Stage I, to obtain supplemental data in areas previously investigated to aid in data interpretation, and to complete replicate sample quotas as stated in the Sampling and Analysis Plan. In order to achieve these objectives, 35 groundwater samples (15 shallow, 13 intermediate, and 7 deep) were collected and analyzed for appropriate COCs using DPT sampling methods described above. Nine locations from Stage I sampling were re-visited and 12 new locations were investigated. Analyses performed by both mobile and fixed-base laboratories during the two stages of the Phase I investigation are provided in Appendix D, Table D-1.

4.2.2 Phase II Investigation

4.2.2.1 Soil Sampling

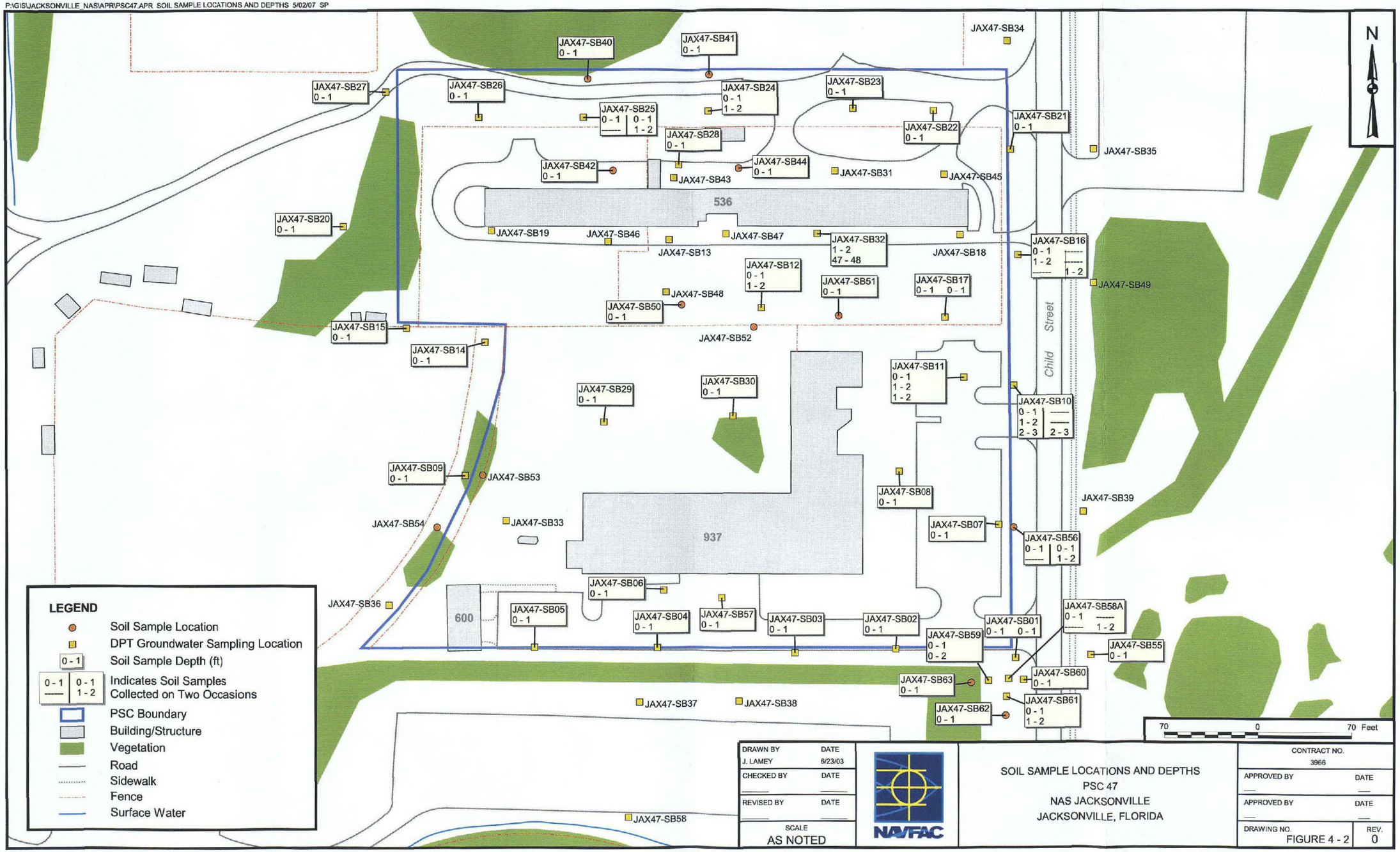
Fourteen (14) additional soil samples were collected for analysis of TCL pesticides during various stages of the Phase II investigation to fill gaps evident in the analytical record existing after the Phase I investigation. Six samples were collected on December 12, 2002, five on January 20, 2003, two on January 28, 2003 and one on January 30, 2003. A site plan showing locations and depths of all soil samples collected during Phases I and II of the RI investigation is provided as Figure 4-2. Analyses performed on soil samples are listed in Appendix D, Table D-2.

4.2.2.2 Groundwater Sampling

Twenty-four (24) monitoring wells [14 shallow (maximum total depth 15 ft bls), 1 intermediate (total depth 25 ft bls) and 9 deep (total depth from 41 to 60 ft bls)] were installed during Phase II of the RI field investigation. Six individual shallow wells, the intermediate well, one individual deep well, and eight well pairs (consisting of a shallow and deep well adjacent to one another) were installed. Between March 18 and March 28, 2002, six well pairs, one individual deep well, the intermediate well, and three individual shallow wells were installed by Ambient Technologies, Inc. (ATI). The wells were installed under TtNUS supervision at locations considered optimum based upon Phase I groundwater analytical

Rev. 1
05/18/07

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR SOIL SAMPLE LOCATIONS AND DEPTHS 5/02/07 SP



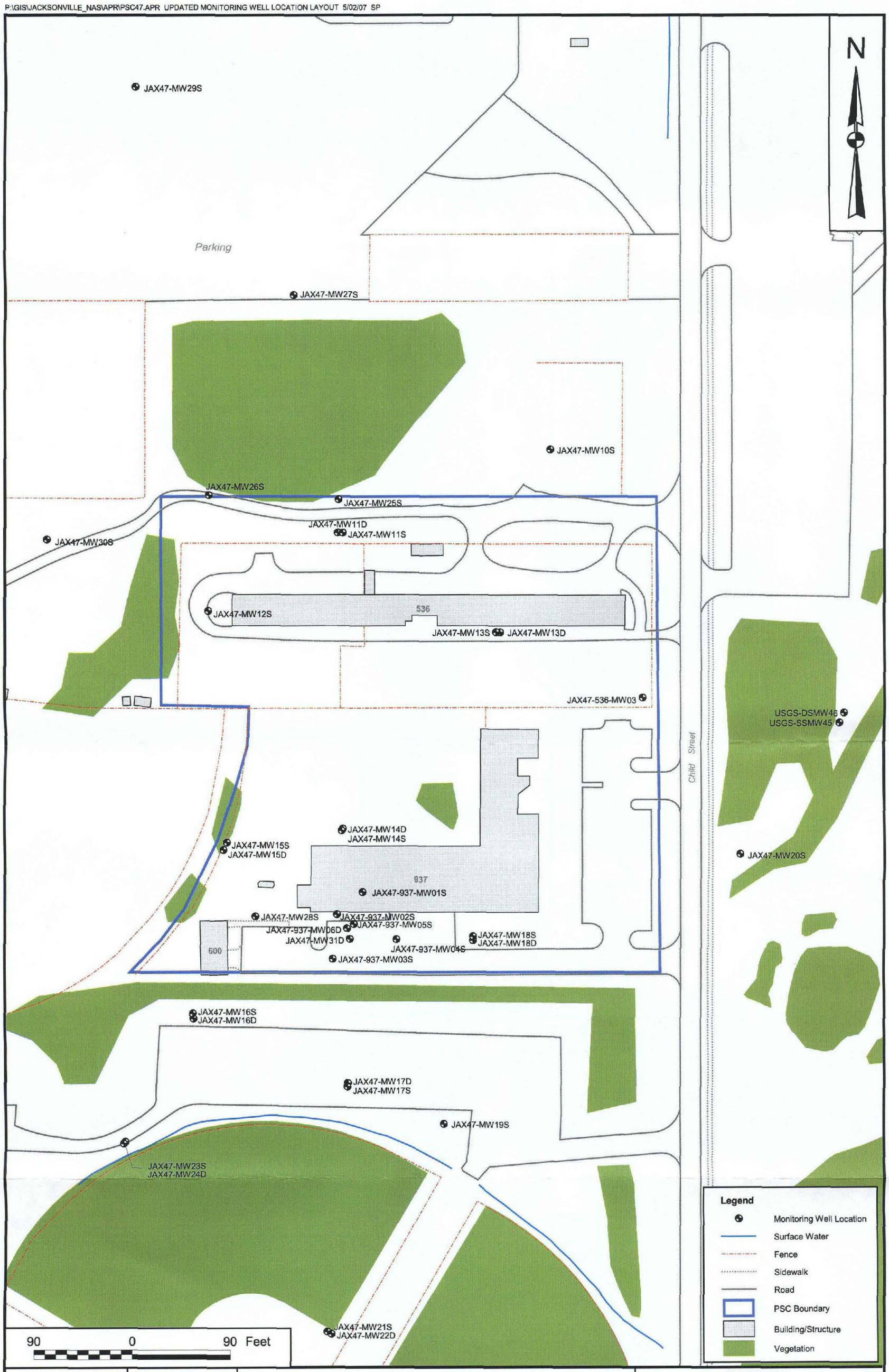
results and pre-RI/FS analytical data. Two well pairs and three individual shallow wells were installed during two subsequent stages of the Phase II investigation (November 2002 and January 2003) by Partridge Well Drilling, Inc. (Partridge). As requested by the NAS Jacksonville Environmental Department, monitoring wells were labeled sequentially, beginning with JAX47-MW10S (MW10S). During Stage I, well pairs were given the same numerical identifier followed by "S" or "D" to differentiate "shallow" from "deep" wells. In subsequent stages, wells comprising a pair were given different numerical identifiers. The designation of the last well installed during the RI was JAX47-MW27S. For brevity, the prefix "JAX47" will be omitted when referring to monitoring wells. A site plan showing existing and newly-installed monitoring wells is provided as Figure 4-3.

4.2.2.2.1 Monitoring Well Installation

The shallow wells, intermediate well, and three of the deep wells were installed using the hollow stem auger (HSA) drilling method. Six deep wells were installed using the mud rotary technique. Monitoring wells MW21S (shallow) and MW22D (deep) were installed in the playing area of a baseball diamond south of PSC 47 (see Figure 4-3). As such, they were installed as temporary wells with no grout in the annular space and no surface completion, and were abandoned shortly after collection of groundwater samples so that the playing field could be restored to pre-existing conditions.

The upper 4 ft at each monitoring well location was excavated with posthole diggers to determine presence or absence of underground utilities. Boreholes were then advanced from 4 ft bls to total depth by machine drilling. Eight-inch outer diameter augers were used for wells drilled by the HSA method and a 5.875-inch tricone drill bit attached to AW rod was used to drill deep wells installed by the mud rotary technique. Monitoring wells constructed of 2-inch diameter, 0.010-inch mill slotted Schedule 40 polyvinyl chloride (PVC) screen and riser were inserted into the boreholes after attaining total depth. The wells were constructed with either a 10-ft or 5-ft section of screen. In general, shallow wells were installed with 10-ft screens and deep wells with 5-ft screens, although there were some exceptions to this rule. The intermediate well (MW20S) was constructed with a 5-ft screen. A filter pack consisting of 20/30 graded silica sand was installed in the annular space between borehole and monitoring well. For wells installed by HSA, the silica sand was poured between the PVC well and the augers while the augers were being removed from the borehole. For wells drilled by mud rotary, a 1-inch diameter PVC tremie pipe with funnel attached was used to install the filter pack after removal of the drillstring and bit. If the top of the screen was 4 ft bls or deeper, the filter pack was poured to approximately 2 ft above the top of the screen. If the top of the screen was less than 4 ft bls, 20/30 sand was poured 12 to 18 inches above the top of the screen, depending on the amount of working space available between ground surface and top of screen to allow for surface completion. Approximately 1 to 2 ft of fine sand (30/65) was poured atop the filter pack, again the thickness of the fine sand seal depending on available working space between ground surface and the top of the screen. Generally, thicker fine sand seals (approximately 2 ft) were

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR UPDATED MONITORING WELL LOCATION LAYOUT 5/02/07 SP



DRAWN BY: S. PAXTON	DATE: 4/04/07	CONTRACT NUMBER: CTO 0047	
CHECKED BY: C. METZ	DATE: 5/02/07	APPROVED BY: —	DATE: —
COST/SCHEDULE-AREA		APPROVED BY: —	DATE: —
SCALE: AS NOTED	NAVFAC	DRAWING NO.: FIGURE 4 - 3	REV: 0

MONITORING WELL LOCATION MAP
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

installed in the deep wells. The remainder of the annular space from the top of the fine sand to within 6 inches of ground surface was filled with Type I portland cement grout. Wells were completed at the surface with 10-inch diameter steel manholes equipped with boltdown covers. Concrete pads, approximately 6 inches thick and 2-ft square, were poured around the manholes.

A generalized schematic diagram showing construction details of a typical shallow well and a typical deep well installed at PSC 47 is presented as Figure 4-4. Construction details of the 24 monitoring wells installed during the RI are provided in Table 4-2. Soil Boring Logs describing subsurface soil encountered during drilling are provided in Appendix E-1, and diagrams depicting construction details of the individual wells are provided in Appendix E-2. Cuttings and fluid generated during drilling activities were containerized in labeled Department of Transportation (DOT) approved 55-gallon drums, properly classified, and disposed by the NAS Jacksonville Public Works Center (PWC) under supervision of the NAS Jacksonville Environmental Department.

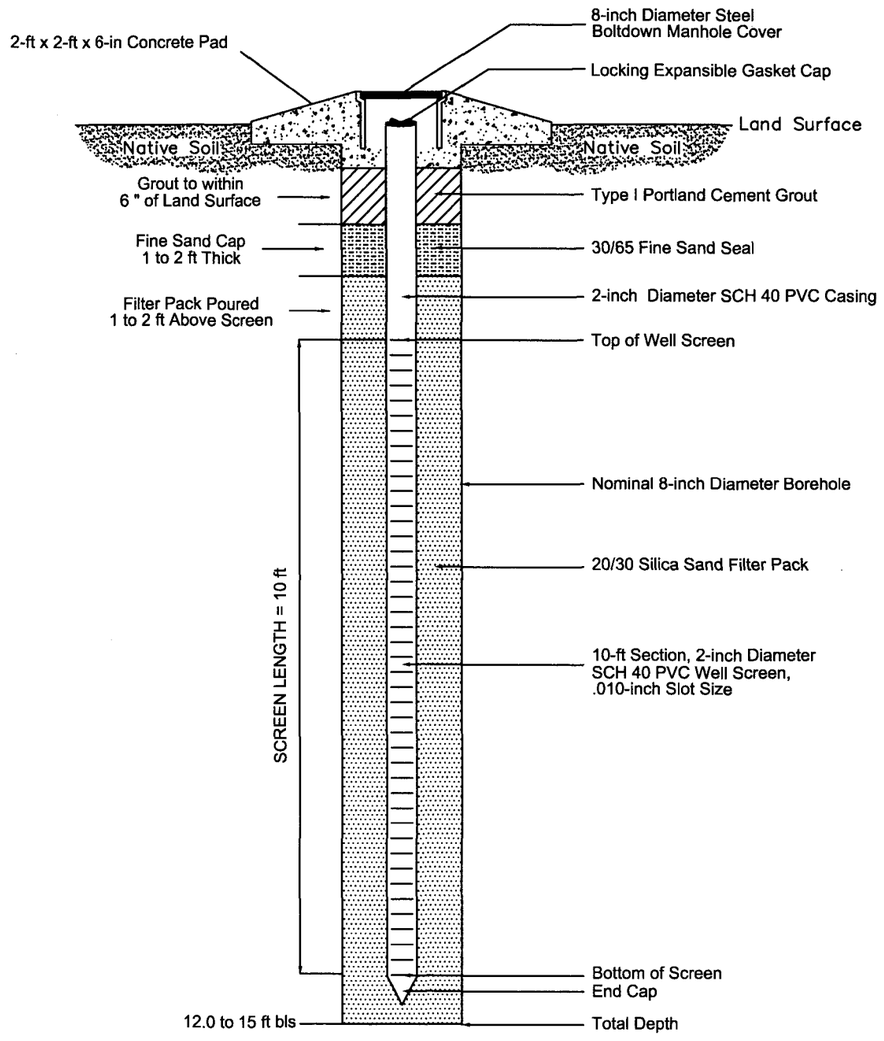
4.2.2.2.2 Monitoring Well Development

The 17 monitoring wells installed during Stage I of the Phase II investigation were developed by the drilling subcontractors (ATI) using a centrifugal pump. Wells were pumped until the water was virtually sediment free. The volume of water pumped from the wells during development ranged from 25 gallons to 150 gallons.

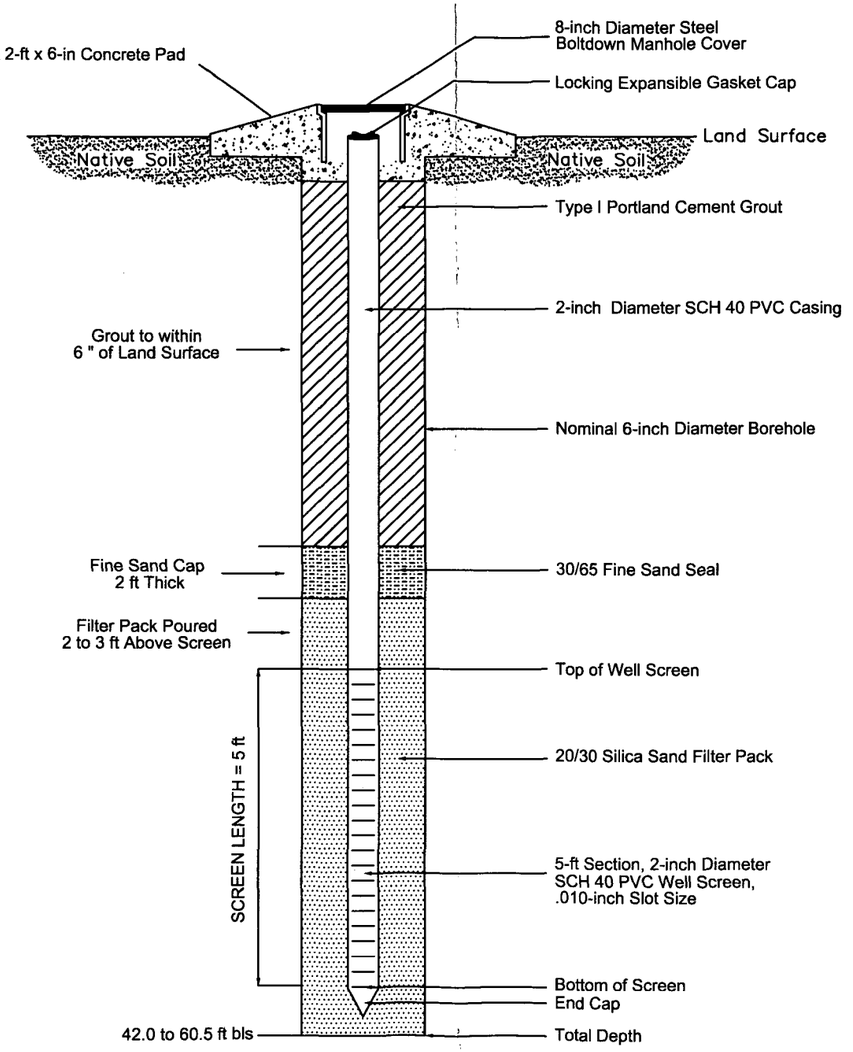
Wells installed in later stages of the Phase II investigation (MW21S through MW27S) were developed by TtNUS personnel using a submersible pump. Monitoring well development records from these seven wells are provided in Appendix F. Development water and purge water (collected prior to sampling of the wells) was containerized in DOT 55-gallon drums and disposed by PWC in the same manner as waste generated during drilling operations.

4.2.2.2.3 Water Table Elevation Determination and Groundwater Flow Direction Maps

The top-of-casing elevations of the monitoring wells at PSC 47 were surveyed relative to a known USGS benchmark and depth-to-water was measured from the surveyed top-of-casing elevations of the wells on four occasions. The water table elevation relative to msl was calculated at each monitoring well location by subtracting the measured depth-to-water values from the surveyed top-of-casing elevations. Groundwater elevation data obtained during the four events is provided in Table 4-3. During each water level measuring event (April 12, 2002, November 6, 2002, January 20, 2003, and July 15, 2003), the sequence of events was as follows.



TYPICAL CONSTRUCTION DETAIL
OF SHALLOW MONITORING WELL



TYPICAL CONSTRUCTION DETAIL
OF DEEP MONITORING WELL

EXCEPTIONS TO CONSTRUCTION DETAILS SHOWN ABOVE:

1) Well labeled "MW-20S" is of intermediate depth (25 ft) and is constructed like a deep well with 5-ft screen (20-25 ft bls)
2) Borehole diameter for deep wells MW-13D and MW-22D were 8" because they were drilled using hollow stem augers. Boreholes for other deep wells were drilled using mud rotary and had nominal 6" diameters.
3) Deep wells MW-13D and MW-11D were constructed with 10-ft screens; all other deep wells were constructed with 5-ft screens

DRAWN BY / DATE	LLK 8/13/03
CHECKED BY / DATE	
REVISED BY / DATE	
SCALE	AS NOTED

MONITORING WELL CONSTRUCTION DIAGRAMS
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

3966	
APPROVED BY / DATE	
APPROVED BY / DATE	
DRAWING NO.	REV.
FIGURE 4-4	0

Table 4-2
Monitoring Well Construction Details

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Well Identification Number JAX47-	Installation Date	Well Depth (ft bls)	Top of Casing Elevation (msl)	Screened Internval Depth (ft bls)	Well Diameter (inches)
MW10S	3/20/2002	15.0	23.58	4.5 - 14.5	2
MW11S	3/18/2002	15.0	23.97	4.5 - 14.5	2
MW11D	3/22/2002	60.5	23.91	50.0 - 60.0	2
MW12S	3/18/2002	15.0	24.40	4.5 - 14.5	2
MW13S	3/19/2002	15.0	24.67	4.5 - 14.5	2
MW13D	3/19/2002	49.0	24.63	39.0 - 49.0	2
MW14S	12/6/2006	13.5	24.26	3.0 - 13.0	2
MW14D	3/26/2002	47.5	24.19	42.5 - 47.5	2
MW15S	3/20/2002	13.5	24.32	3.0 - 13.0	2
MW15D	3/26/2002	47.5	23.96	42.0 - 47.0	2
MW16S	3/20/2002	13.5	23.77	3.0 - 13.0	2
MW16D	3/28/2002	42.0	23.76	36.5 - 41.5	2
MW17S	3/20/2002	13.0	22.72	2.5 - 12.5	2
MW17D	3/25/2002	42.5	22.86	37.0 - 42.0	2
MW18S	3/19/2002	14.5	24.64	4.0 - 14.0	2
MW18D	3/28/2002	46.6	24.51	41.0 - 46.0	2
MW19S	3/18/2002	13.0	22.68	2.5 - 12.5	2
MW20S	3/21/2002	25.5	23.30	20.0 - 25.0	2
MW21S[1]	11/4/2002	12.5	25.29	2.0 - 12.0	2
MW22D[1]	11/4/2002	46.5	25.47	41.0 - 46.0	2
MW23S	11/4/2002	15.5	25.28	5.0 - 15.0	2
MW24D	11/5/2002	45.5	25.31	40.0 - 45.0	2
MW25S	11/4/2002	14.5	25.05	4.0 - 14.0	2
MW26S	1/15/2003	13.5	24.64	3.0 - 13.0	2
MW27S	1/15/2003	13.5	24.38	3.0 - 13.0	2
MW28S	12/6/2006	13.5	25.37	3.0 - 13.0	2
MW29S	3/2/2007	13.5	21.62	3.0 - 13.0	1.5
MW30S	3/5/2007	13.5	23.07	3.0 - 13.0	1.5
MW31D	3/5/2007	53.5	24.95	48.0 - 53.0	0.75

Notes:

[1] Installed as temporary well; abandoned after sampling, 11-06-02.

All monitoring wells were constructed of schedule 40 polyvinyl chloride (PVC) with 0.010 inch slotted screen.

ft bls - feet below land surface

msl - mean sea level

Table 4-3
Water Table Elevation Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Well Number	Screened Interval (ft bls)	Total Depth of Well (ft bls)	Top of Casing Elevation (ft msl)	April 12, 2002		November 6, 2002		January 20, 2003		July 15, 2003		November 27, 2006	
				Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)	Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)	Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)	Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)	Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)
JAX-47-													
MW10S	4.5 - 15.0	14.5	23.58	4.86	18.72	4.53	19.05	NM	NM	4.05	19.53	6.98	16.60
MW11S	4.5 - 15.0	14.5	23.97	5.35	18.62	5.24	18.73	NM	NM	4.88	19.09	7.68	16.29
MW11D	50.0 - 60.5	60.	23.91	6.98	16.93	7.1	16.81	NM	NM	6.41	17.50	8.95	14.96
MW12S	4.5 - 15.0	14.5	24.40	5.81	18.59	NM	NM	NM	NM	5.45	18.95	8.30	16.10
MW13S	4.5 - 15.0	14.5	24.67	5.44	19.23	5.39	19.28	NM	NM	4.75	19.92	7.82	16.85
MW13D	39.0 - 50.0	49.0	24.63	6.18	18.45	6.35	18.28	NM	NM	5.52	19.11	8.28	16.35
MW14D	42.5 - 48.0	47.5	24.19	5.38	18.81	5.42	18.77	NM	NM	4.73	19.46	7.54	16.65
MW15S	3.0 - 13.5	13.0	24.32	4.94	19.38	4.91	19.41	NM	NM	4.52	19.80	7.33	16.99
MW15D	42.0 - 47.5	47.0	23.96	6.63	17.33	6.8	17.16	NM	NM	6.08	17.88	8.74	15.22
MW16S	3.0 - 13.5	13.0	23.77	4.17	19.6	4.26	19.51	NM	NM	3.6	20.17	6.37	17.40
MW16D	36.5 - 42.0	41.5	23.76	4.68	19.08	4.91	18.85	NM	NM	3.84	19.92	5.52	18.24
MW17S	2.5 - 13.0	12.5	22.72	2.78	19.94	2.51	20.21	2.57	20.15	1.57	21.15	4.99	17.73
MW17D	37.0 - 42.5	42.0	22.86	3.58	19.28	3.63	19.23	3.2	19.66	2.68	20.18	5.43	17.43
MW18S	4.0 - 14.5	14.0	24.64	4.85	19.79	NM	NM	4.43	20.21	4.34	20.30	7.21	17.43
MW18D	41.0 - 47.0	46.0	24.51	5.43	19.08	NM	NM	4.98	19.53	4.48	20.03	7.33	17.18
MW19S	2.5 - 13.0	12.5	22.68	2.59	20.09	2.51	20.17	NM	NM	1.48	21.20	4.91	17.77
MW20S	20.0 - 25.5	25.0	23.30	3.48	19.82	NM	NM	NM	NM	2.44	20.86	5.78	17.52
MW21S	2.0 - 12.0	12.0	25.29	NYI	NM	4.44	20.85	Abandoned	NM	Abandoned	NM	Abandoned	NM
MW22D	41.0 - 46.5	46.0	25.47	NYI	NM	6.71	18.76	Abandoned	NM	Abandoned	NM	Abandoned	NM
MW23S	5.0 - 15.0	15.0	25.28	NYI	NM	4.79	20.49	4.23	21.05	3.22	22.06	6.69	18.59
MW24D	40.0 - 45.0	45.0	25.31	NYI	NM	6.59	18.72	5.9	19.41	5.74	19.57	8.10	17.21
MW25S	4.0 - 15.0	14.0	25.05	NYI	NM	5.35	19.70	4.97	20.08	5.03	20.02	7.74	17.31
MW26S	3.0 - 14.0	13.0	24.64	NYI	NM	NYI	NM	4.9	19.74	5.15	19.49	7.75	16.89
MW27S	3.0 - 14.0	13.0	24.38	NYI	NM	NYI	NM	4.92	19.46	5.43	18.95	7.68	16.70

See notes at end of table.

Table 4-3 (Continued)
Water Table Elevation Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Well Number	Screened Interval (ft bls)	Total Depth of Well (ft bls)	Top of Casing Elevation (ft msl)	April 12, 2002		November 6, 2002		January 20, 2003		July 15, 2003		November 27, 2006	
				Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)	Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)	Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)	Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)	Depth to Water Below Top of Casing (ft)	Water Table Elevation (ft msl)
JAX-47-536													
MW03[1]	2.0-12.0*	12.0*	23.43	NM	NM	NM	NM	NM	NM	NM	NM	NM*	NM*
JAX-47-937													
MW1S	5.0 - 15.0	15.0	25.71	6.07	19.64	NM	NM	NM	NM	5.73	19.98	8.43	17.28
MW2S	4.0 - 14.0	14.0	25.38	5.75	19.63	5.66	19.72	NM	NM	5.42	19.96	8.08	17.30
MW3S	3.0 - 13.0	13.0	24.41	4.70	19.71	4.67	19.74	NM	NM	4.37	20.04	7.00	17.41
MW4S	3.0 - 13.0	13.0	24.54	4.81	19.73	4.85	19.69	NM	NM	4.46	20.08	7.13	17.41
MW5S	3.0 - 13.0	13.0	25.06	5.39	19.67	5.3	19.76	NM	NM	5.07	19.99	7.71	17.35
MW6D	30.0 - 35.0	35.0	25.02	5.67	19.35	5.72	19.3	NM	NM	4.81	20.21	7.91	17.11
JAX-47-USGS													
SSMW45	6.0 - 16.0	16.0	26.38	6.58	19.8	NM	NM	NM	NM	5.52	20.86	8.81	17.57
DSMW46	39.0 - 44.0	44.0	26.58	7.96	18.62	NM	NM	NM	NM	7.16	19.42	NM	NM

Notes:

NM - Not measured

NYI - Not yet installed

ft msl - feet mean sea level

ft bls - feet below land surface

[1] Microwell - Depth-to-water not measured because probe diameter larger that well diameter.

* Estimated Depths

- Visit each well, remove the bolt-down manhole cover (flush-mount wells), or unlock/open hinged cap of protective casing (stickup wells), remove expansible well cap, take wellhead photo ionization detector (PID) reading, leave well open.
- Revisit wells in same order that they were unlocked, measure and record depth-to-water, and lock well.

By following this procedure, the most reliable data is obtained because water levels in wells are given time to equilibrate before depth-to-water measurements are taken, and potential fluctuations in water levels due to natural factors, such as changes in barometric pressure, are minimized by obtaining the data set in the shortest possible time period.

4.2.2.2.4 Groundwater Sampling Points

Between April 4 and April 12, 2002, groundwater samples were collected from the 17 permanent monitoring wells installed during Phase II/Stage I of the RI (MW10S, MW11S/11D, MW12S, MW13S/13D, MW14D, MW15S/15D, MW16S/16D, MW17S/17D, MW18S/18D, MW19S, and MW20S), from the 6 existing DVECC wells (JAX47-937-MW01S, -MW02S, -MW03S, -MW04S, -MW05S, and -MW06D), from the existing microwell southeast of the Pesticide Shop (JAX47-536-MW03), and from 2 existing USGS wells east of Child Street [1 shallow (USGS-SSMW45) and 1 deep (USGS-DSMW46)]. In early November 2002, five wells (MW21S, MW22D, MW23S, MW24D, and MW25S) were added to the network and groundwater samples were collected on November 6 and 7, 2002. Shortly after sample collection, wells MW21S and MW22D were abandoned because of their location in the playing area of a baseball field. Two downgradient wells (MW26S and MW27S), located northwest of the Pesticide Shop, were installed on January 15, 2003 and sampled on January 20, 2003.

On February 27, 2004, TtNUS mobilized to PSC 47 to delineate arsenic in groundwater. During this event, seven wells (JAX47-937-MW01S, JAX47-937-MW02S, JAX47-937-MW04S, JAX47-MW12S, JAX47-MW14D, JAX47-15S, and JAX47-MW18S) were sampled for arsenic only. Due to detections during the first sampling event a second groundwater sampling event was performed on March 26, 2004 to complete the delineation. This event included sampling of JAX47-937-MW03S, JAX47-MW16S, and JAX47-MW17S.

4.2.2.2.5 Groundwater Sampling Procedures

During each stage of the Phase II investigation, groundwater samples were collected by the low flow purge technique using a peristaltic pump with attached Teflon® tubing. Prior to purging, depth to static water level was measured to the nearest 0.01 ft. Tubing intake was set approximately at the middle of

well screens. Pumping rates were variable depending on recharge rates of the wells and were ideally set such that drawdown did not exceed 0.3 ft.

Prior to sample collection, a minimum of three well volumes of groundwater were removed from wells in which the well screen intersected the water table. If the screen was submerged, a minimum three screen length volumes were removed. During purging, field parameters [pH, specific conductance, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential (ORP)] were measured and recorded periodically using a Horiba U-22 instrument. If, after purging of three well (or screen) volumes, one or more field parameters did not stabilize, purging would continue until a maximum of five well (or screen length) volumes were removed. Stabilization is defined as follows: pH $\pm$0.1 unit; specific conductance $\pm$10 percent; temperature $\pm$1.0 degrees Celsius ($^{\circ}$C); and turbidity, less than 10 NTUs. Neither dissolved oxygen nor ORP is used to determine aquifer stabilization. Groundwater Sampling Logs and Low Flow Purge Sheets compiled during purging and sampling of these wells, are provided in Appendix H.

After collection, the samples were immediately placed on ice and shipped via overnight courier under proper chain-of-custody to Katahdin for analysis.

4.2.2.2.6 Field Natural Attenuation Measurements

During the Stage I (Phase II) groundwater sampling event of April 4 through 12, 2002, sample aliquots were analyzed in the field for the following natural attenuation parameters:

- Carbon Dioxide (CHEMetrics)
- Alkalinity (CHEMetrics)
- Ferrous Iron (HACH DR/890 + Color Wheel)
- Hydrogen Sulfide (HACH HS-C)
- Sulfide (HACH DR/890)
- Manganese (HACH DR/890)

Results of the natural attenuation field analyses were recorded on the Groundwater Sampling Logs and Low Flow Purge Sheets provided in Appendix H. Natural attenuation parameters were not measured in the field during subsequent stages of Phase II groundwater sampling (MW21S through MW27S).

4.2.2.2.7 Laboratory Analytical Program

Laboratory analyses, performed during the Phase II RI investigation, are listed in Appendix D, Table D-3. Groundwater samples collected from the 26 monitoring wells during Stage I of the Phase II RI (April 4 through April 12, 2002) were analyzed for TCL VOCs by USEPA Method 8260B, TCL pesticides by

USEPA Method 8081A, OP pesticides by USEPA Method 8141A, TCL herbicides by USEPA Method 8151A, and for the following natural attenuation parameters:

- Methane/ethane/ethene [organic volatile gases (OVG)] by Method MOD RSK-175
- TOC by USEPA Method 415.1
- Filtered and unfiltered iron and manganese by USEPA Method 6010B
- Dissolved sulfide by USEPA Method 376.1
- Ammonia by USEPA Method 350.1
- TKN by USEPA Method 351.2
- Chemical Oxygen Demand (COD) by USEPA Method 410.4
- Nitrate (NO_3) and nitrite (NO_2) by USEPA Method 353.2
- Chloride by USEPA Method 325.2
- Sulfate by USEPA Method 375.4
- Biochemical Oxygen Demand (BOD) by USEPA Method 405.1

Samples from six of the wells [MW13S and -MW13D, the two USGS wells (SSMW45 and DSMW46), and two of the DVECC wells (JAX47-937-MW01S and –MW06D)] were analyzed for the additional parameters SVOCs (USEPA Method 8270C), TCL PCBs (USEPA Method 8082), and TAL metals (USEPA Method 6010B) (except mercury by Method 7470 and thallium by Method 6020). Detections of arsenic in JAX47-937-MW01S generated the need for additional arsenic analysis of 10 groundwater samples in February and March 2004.

Groundwater samples collected from the seven monitoring wells added to the network in subsequent stages of the Phase II investigation (MW21S through MW27S) were only analyzed for TCL VOCs by USEPA Method 8260B and TCL pesticides by USEPA Method 8081A. No field or laboratory natural attenuation analyses were performed on these samples.

4.2.3 Phase III Investigation

4.2.3.1 Soil Sampling

A total of 112 soil samples were collected from 58 locations and analyzed for TCL pesticides and/or arsenic during the Phase III investigation. There was one exception, SB118 was analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, and TCL herbicides. One hundred samples (from 50 locations – SB64 through SB113) were collected between November 27, 2006 and December 1, 2006, 10 samples [from 7 locations – SB114 through SB 121 (excluding SB118)] were collected on March 9, 2007, and 2 samples (from one location – SB118) were collected on March 18, 2007. A site plan showing locations of soil samples collected during all phases of the RI investigation is provided as Figure 4-5. Sample depth and

analyses performed for each sample are listed in Appendix D, Table D-4. Soil Sediment Sampling Logs are provided in Appendix G.

Sampling and decontamination procedures were performed in general accordance with FDEP Standard Operating Procedures (SOPs) (FDEP, 2004) and TtNUS' RI/FS Sampling and Analysis Plan Addendum for PSC 47 (TtNUS, 2006). Borings from which soil and/or groundwater grab samples were collected were labeled sequentially beginning with "SB01". Soil sample designations included the PSC ID (prefix), boring number, depth to bottom of sampling interval, and date of collection (suffix). For example, the sample collected at SB77 between 5 and 6 ft bls on November 28, 2006 was designated JAX47-SB77-06-112806.

During the first field event of the Phase III investigation (November 27 to December 1, 2006), 100 samples (from 50 locations – SB64 through SB113) were collected via a stainless steel hand auger. All samples were hand delivered to Environmental Conservation Laboratories Inc. (ENCO) in Jacksonville, Florida. Each sample location had a surface (0-12 inch) and subsurface (immediately above water table) soil grab sample collected. Soil borings SB64 through SB77 were only analyzed for arsenic as they were intended to verify if arsenic contaminated soil was contributing the groundwater arsenic plume present near Building 937.

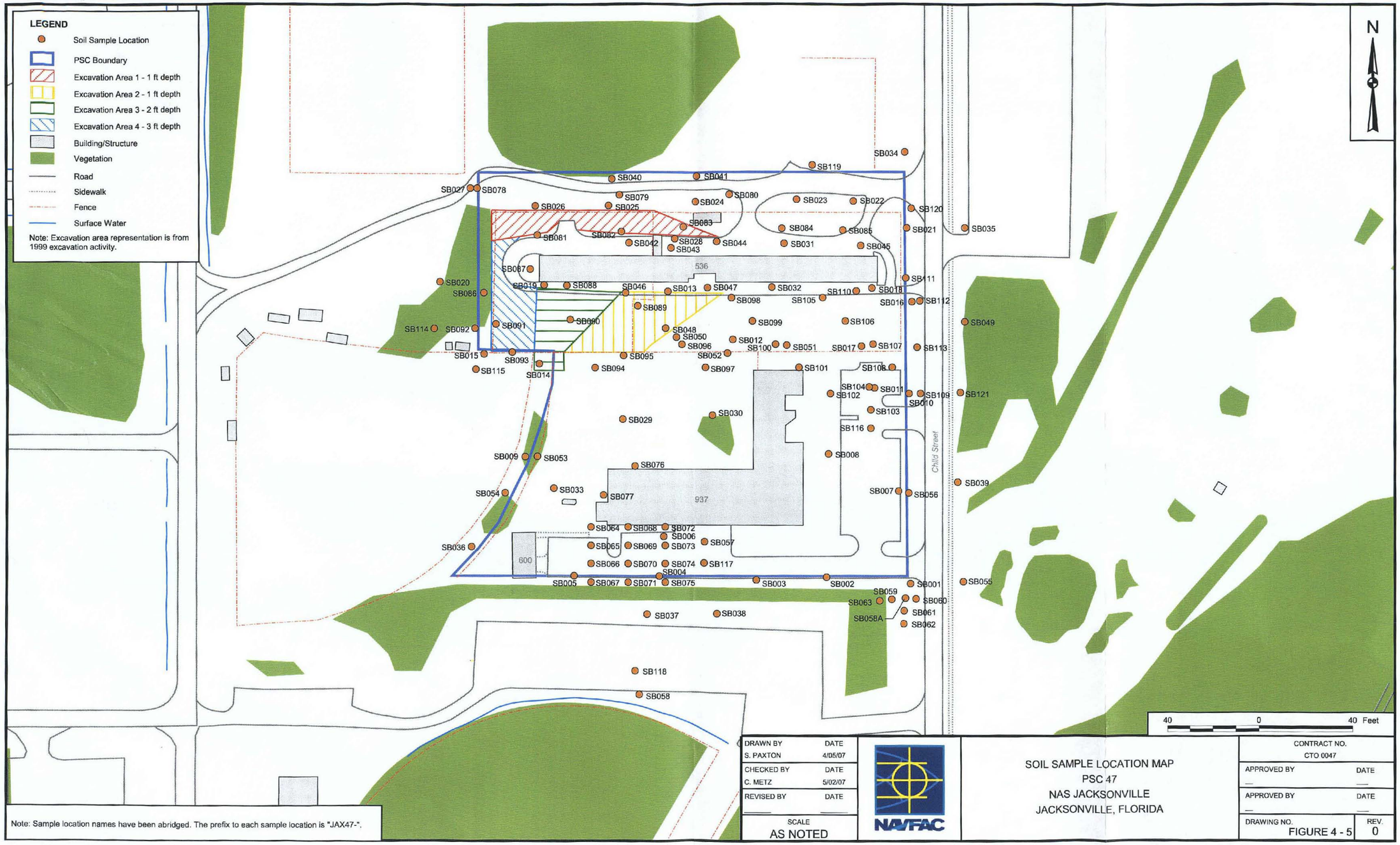
A second field event was conducted on March 9, 2007 and a total of 10 samples were collected from seven soil borings [SB114 through SB121 (excluding SB118]. A surface and/or subsurface soil grab sample was collected from SB114 through SB120 (excluding SB118) and analyzed for arsenic. A surface soil sample was collected from SB121 and analyzed for pesticides. All samples were hand delivered to ENCO in Jacksonville, Florida.

The third and final field event for soil delineation was conducted on March 13, 2007. A surface (0-12 inches) and subsurface (immediately above water table) soil grab sample were collected from SB118. Both samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, and TCL herbicides by ENCO in Jacksonville, Florida. Soil boring SB118 was located immediately beside monitoring well MW17S, which had reported VOCs, SVOCs, and pesticides concentrations exceeding FDEP GCTLs. Because there was no soil data near this well and it is located upgradient to the known source (Building 937) for this area, these samples were collected for completeness of the data set.

4.2.3.2 Groundwater Sampling

Five monitoring wells [4 shallow (maximum total depth 13.5 ft bls) and 1 deep (total depth 53 ft bls)] were installed during two separate events of the Phase III RI field investigation. Two of the shallow wells (MW14S and MW28S) were installed on December 6, 2006 by Florida Southern Downhole, Inc. Both of

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR SOIL SAMPLE LOCATION LAYOUT 5/02/07 SP



DRAWN BY	DATE
S. PAXTON	4/05/07
CHECKED BY	DATE
C. METZ	5/02/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

SOIL SAMPLE LOCATION MAP
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 4 - 5
REV.	0

these wells were installed to further define the arsenic hot spot located southwest of Building 937. The three remaining wells (MW29S, MW30S, and MW31D) were installed on March 2 and 5, 2007 by Zebra Environmental, Inc. Wells MW29S and MW30S were installed as downgradient "clean" wells for the northern pesticide plume located around Building 536. A site plan showing existing and newly-installed monitoring wells is provided as Figure 4-3.

4.2.3.2.1 Monitoring Well Installation

Both of the shallow wells (MW14S and MW28S) installed on December 6, 2006 were installed using the HSA drilling method. The remaining three wells (MW29S, MW30S, and MW31D) were installed using DPT and prepacked well screens. Each of these five wells was completed as described in Section 4.2.2.2.1 of this report.

Construction details of these five monitoring wells is provided in Table 4-2. Diagrams depicting construction details of the individual wells are provided in Appendix E-2. Cuttings and fluid generated during drilling activities were containerized and labeled in DOT approved 55-gallon drums, properly classified, and disposed by the NAS Jacksonville PWC under supervision of the NAS Jacksonville Environmental Department.

4.2.3.2.2 Monitoring Well Development

Monitoring wells MW14S and MW28S were developed by the drilling subcontractors (Florida Southern Downhole, Inc.) using a centrifugal pump. Monitoring wells MW29S, MW30S, and MW31D were developed by TtNUS personnel using a peristaltic pump. All wells were pumped until the water was virtually sediment free. Development water and purge water (collected prior to sampling of the wells) was containerized in DOT 55-gallon drums and disposed by PWC in the same manner as waste generated during drilling operations.

4.2.3.2.3 Water Table Elevation Determination and Groundwater Flow Direction Maps

Groundwater elevations were recorded on November 27, 2006 and are summarized in Table 4-3. Procedures followed for collecting groundwater levels were the same as those presented in Section 4.2.2.2.3 of this report.

4.2.3.2.4 Groundwater Collection

Groundwater samples were collected from the 35 permanent monitoring wells at PSC 47 between November 27, 2006 and March 9, 2007. A complete list of Phase III monitoring wells with sample date and analysis for each well is included in Appendix D as Table D-5.

On April 4, 2007, four additional samples were collected from monitoring wells JAX47-937-MW02S, JAX47-937-MW03S, JAX47-937-MW04S, and JAX47-937-MW05S. These four wells were re-sampled to confirm arsenic concentrations and provide speciation data as to the type(s) of arsenic present.

4.2.3.2.5 Groundwater Sampling Procedures

All samples were collected in strict accordance with FDEP SOPs for groundwater sampling. Groundwater Sampling Logs compiled during purging and sampling of these wells, are provided in Appendix H. After collection, the samples were immediately placed on ice and hand delivered to ENCO in Jacksonville, Florida.

4.2.3.2.6 Laboratory Analytical Program

Laboratory analyses, performed during the Phase III RI investigation, are listed in Appendix D, Table D-5. Groundwater samples collected from the 35 monitoring wells during Phase III were analyzed for TCL VOCs by USEPA Method 8260B, TCL SVOCs by USEPA Method 8270C, TCL pesticides by USEPA Method 8081A, and arsenic by USEPA Method 6010B. Select wells also had a filtered arsenic sample collected. All samples were hand delivered to ENCO in Jacksonville, Florida.

Samples from four of the wells (MW02S, MW03S, MS04S, and MW05S) with the highest arsenic concentrations were collected again on April 3, 2007. These four samples were shipped to Accutest Laboratories in Orlando, Florida and were analyzed for arsenic by USEPA Method 6010B, arsenic speciation by HPLC-HG-AFS (high-performance liquid chromatography-hydride generation-atomic fluorescence spectrometry), total suspended solids by USEPA Method 160.2, and total dissolved solids by USEPA Method 160.1.

5.0 NATURE AND EXTENT OF CONTAMINATION

Results of the sampling activities supporting the RI as described in Sections 3.0 and 4.0 are summarized in this section. The quality of the chemical analytical data generated during the investigation of PSC 47 has been documented. The analytical data validation process was completed for the laboratory data packages in accordance with the USEPA Functional Guidelines for Organic Data Validation (February 1994), the USEPA Functional Guidelines for Inorganic Data Validation (February 1994), and the PSC 47 RI/FS Work Plan (TtNUS, 2000). The data set compiled using these guidelines is considered acceptable for use in this RI in support of the FS.

Discussion of the nature and extent of contamination at PSC 47 is structured according to the RI/FS guidance (USEPA, 1988). Sources of contamination are discussed first (Section 5.1), followed by a summary of NAS Jacksonville background screening concentrations for COCs (Section 5.2). Assessment results are presented in Section 5.3. The nature and distribution of chemical contamination identified in soil and groundwater is presented in Sections 5.3.1 and 5.3.2, respectively. Discussion of results for both media are subdivided chronologically into phases and stages as the RI investigation progressed. For both soil and groundwater, COC analytical results are discussed in the following order: TCL pesticides, followed by (where applicable) TCL VOCs and SVOCs, TCL herbicides, dioxins, OP pesticides, PCBs, TAL metals, and natural attenuation parameters. A discourse on the significance of the reported data is accompanied by tables showing concentrations of each fraction within a particular medium and graphic illustrations showing contaminant distributions in the various media.

5.1 SOURCES OF CONTAMINATION

Suspect sources of contamination at PSC 47, broadly speaking, are the location of the former DVECC tank south of Building 937 and the areas around Building 536 where pesticides were once mixed and stored, pesticide application equipment was tested and calibrated, chlordane was applied to concrete slabs for termite control training, drums of unknown content were stored, chlordane was allegedly spilled, and diesel and diesel-malathion mixtures were stored in ASTs or USTs. Previous investigations by HLA (1999) and BEI (1999) indicated that greatest pesticide concentrations in soils are present south of the western half of Building 536. The former soakage pit locations near the southeast and southwest corners of Building 536 are additional areas where COCs have been identified at elevated levels. The distribution of COCs in groundwater has previously been documented in the area surrounding the DVECC pesticide tank, but only widely-spaced data points were investigated in the northern half of the PSC in the vicinity of the Pesticide Shop.

The Phase I sampling and analysis locations were designed to define the breadth of soil contamination, to obtain a profile of groundwater contamination sitewide, and to acquire information in areas lacking in soil and groundwater quality data. Seventeen permanent monitoring well locations were selected based upon information provided in investigations pre-dating the RI and upon results of the DPT investigation performed in Phase I of the RI. Locations of five additional monitoring wells (MW21S, MW22D, MW23S, MW24D, and MW25) were selected based upon groundwater analytical data reported from the initial Phase II (April 2002) sampling event, which included data from the 17 new monitoring wells and 9 existing monitoring wells. Locations of two wells (MW26S and MW27S) were selected to delineate the northwestern (downgradient) boundary of contaminated groundwater based upon data reported in previous stages of the Phase II investigation. Phase III sampling was analysis locations were designed to complete horizontal delineation of soils and confirm previously reported (2002/2003) groundwater contamination concentrations. Samples were collected from 58 soil locations and 34 monitoring wells (29 existing wells and 5 newly installed wells) during Phase III. Locations of the five wells (MW14S, MW28S, MW29S, MW30S, and MW31D) were selected to delineate the boundaries of contaminated groundwater based upon data reported in the Phase III investigation.

5.2 BACKGROUND SCREENING CONCENTRATIONS

Stationwide background concentrations for organic and inorganic compounds in various environmental media were previously established and approved by FDEP and USEPA for NAS Jacksonville during the OU 1 RI/FS. These concentrations were developed using data gathered in areas believed not to have been impacted by historical NAS Jacksonville operations (ABB-ES, 1996).

Concentrations in all media sampled under this RI were evaluated against stationwide background values. No other site-specific background sampling was performed. The background concentrations for each COPC along with the detections are presented in analytical data tables in the subsections to Section 5.3 below.

5.3 CONTAMINATION ASSESSMENT

During the DQO process, regulatory screening criteria were selected for each medium of concern. For soils, selected criteria include FDEP residential, industrial and leachability SCTLs, Region 9 Preliminary Remediation Goals (PRGs), and NAS Jacksonville background values. For groundwater, screening criteria include FDEP GCTLs, USEPA MCLs, and NAS Jacksonville background screening values. Data tables provided in the following sections include each of the screening criteria identified above by media type.

In development of the site DQOs, the NAS Jacksonville Partnering Team made the decision to select the lower regulatory level between FDEP SCTLs (both residential and industrial) and Region 9 PRGs as the primary soil screening criteria for the purposes of the RI. As a result, exceedances of these criteria are used for visual presentation of results on figures in this section. This decision was based on the relatively dry conditions encountered in the drainage ditch bordering the east side of PSC 47 and the lack of a connection of storm water conveyance features to a surface water body.

Phase I and II data were originally compared to 2004 FDEP cleanup target levels (CTLs) and was the basis for guiding additional RI field investigation efforts. The FDEP promulgated new CTLs on April 17, 2005 that resulted in changes in the permissible concentrations (often lower limits) of many contaminants. As a result, the Phase I and II data were compared to current FDEP CTLs (2005) prior to planning and collecting Phase III data. Several of the figures in the coming sections will show tag maps with SCTLs that are no longer correct but are being shown because they supported the decisions that were made during the initial phases of the RI investigation. Updated tag maps, compared to current (2005) FDEP CTLs, are provided to show current SCTL exceedances at all sampling locations (Phase I through III).

5.3.1 Soil Quality Assessment

A detailed discussion of the rationale and objectives of the soil sampling scheme designed for the RI is provided in Section 4.2.1.1. A total of 62 surface (approximately 6 inches bls) and subsurface (2 ft bls or deeper) soil samples were collected during Phase I and II at the locations and depths shown on Figure 4-2. As described in Section 4.2.2.1, the majority of the samples (35) were collected and analyzed by the mobile laboratory during Phase I of the RI. Supplemental samples were collected for analysis by the fixed-base laboratory in several follow-up visits to the site for either further COC delineation or as duplicate samples to compare with mobile laboratory data. An additional 112 surface and subsurface soil samples were collected during Phase III at the locations shown on Figure 4-5.

5.3.1.1 Surface Soil

Forty-five (59) surface soil samples (0-2 ft bls) were collected by TtNUS personnel during Phases I and II of the RI field investigation (2002/2003), as discussed in previous sections. Twenty-six (26) samples were analyzed by the mobile laboratory (KB Labs) during the initial stage of the investigation, and 33 samples were analyzed by the fixed-base laboratory during subsequent stages. Each surface soil sample collected was analyzed for TCL pesticides by USEPA Method 8081, three were analyzed for VOCs, SVOCs, and PCBs by USEPA Methods 8260B, 8270C, and 8082, respectively, and two samples were analyzed for OP pesticides by USEPA Method 8141A. Analyses other than TCL pesticides were all performed by the fixed-base laboratory. Please refer to Appendix D, Table D-2 for a listing of soil samples and the laboratory analyses performed on each sample.

Fifty-eight (58) surface soil samples (0-2) ft bls) were collected by TtNUS personnel during Phase III of the RI field investigation (2006/2007). All 58 samples were analyzed by a fixed-base laboratory (ENCO). Fifty-seven (57) samples were analyzed for TCL pesticides by USEPA Method 8081 and/or arsenic by USEPA Method 6010B. One sample was analyzed for TCL pesticides, herbicides, VOCs, and SVOCs by USEPA Methods 8081, 8151A, 8260B, 8270C, respectively. Please refer to Appendix D, Table D-4 for a listing of soil samples and the laboratory analyses performed on each sample.

Twenty-three (23) surface soil samples were collected by BEI from the floor and sidewalls of the 1 to 3-ft deep excavation following the 1999 soil removal event. The samples were analyzed by ENCO of Jacksonville, Florida (a fixed-base laboratory) for TCL pesticides by USEPA Method 8081. TtNUS is unsure of the validation efforts performed on the BEI data. The BEI pesticide data is provided in Appendix C as Table C-1.

5.3.1.1.1 TCL Pesticides

TCL pesticide concentrations reported in the surface soil samples discussed above are listed in Table 5-1. Comprehensive (BEI and RI samples) figures showing surface soil exceedances of current residential, industrial, and leachability SCTLs are provided as Figures 5-1, 5-2, and 5-3, respectively. Soil analytical data reports produced by the mobile laboratory are provided in Appendix I and validated fixed-base laboratory reports listing soil analytical results on samples collected are provided in Appendix J.

Eight TCL pesticide compounds were reported at concentrations exceeding residential criteria (see Figure 5-1) in the surface soil samples analyzed, including samples collected by BEI (after the 1999 soil removal event) and by TtNUS during RI field activities. The most commonly reported pesticide compounds exceeding residential criteria were 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, arsenic, benzo(a)pyrene equivalents, dieldrin, heptachlor, and heptachlor epoxide. Five (4,4'-DDT, arsenic, dieldrin, heptachlor, and heptachlor epoxide) of the eight TCL pesticides exceeding residential criteria also exceeded industrial criteria. Industrial exceedances of pesticides are shown on Figure 5-2. Highest concentrations and locations of the these most-frequently reported pesticide compounds were: 4,4'-DDD (17,000 micrograms per kilogram (µg/kg), 4,4'-DDT (2,700,000 µg/kg), and heptachlor (3,400 µg/kg) in SB96; 4,4'-DDE (28,000 µg/kg) in BEI sample JX01216; benzo(a)pyrene (643 µg/kg) in SB001; arsenic (47.4 mg/kg) in SB103; dieldrin (3,400 µg/kg) in SB50 and SB106; and heptachlor epoxide (920 µg/kg) in SB94.

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB001 S-00 06/29/01	SB001 S-00 12/19/01	SB002 S-00 06/29/01	SB003 S-00 06/29/01	SB004 S-00 06/29/01	SB005 S-00 07/02/01	SB006 S-01 07/02/01
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	890	300 J	12.5 U	12.5 U	51.1	12.5 U	12.5 U
4,4'-DDE	2900	15000	18000	1700	7000	630	190 J	12.5 U	15.1	162.1	17.8	16
4,4'-DDT	2900	15000	11000	1700	7000	2800	680 J	15.2	21.9	122.3	15.3	12.5 U
ALDRIN	60	300	200	29	100	12.5 U	51 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ALPHA-BHC	100	600	0.3	90	360	12.5 U	51 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	13	110 J	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
BETA-BHC	500	2400	1	320	1300	12.5 U	51 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
DELTA-BHC	24000	490000	200	90	360	12.5 U	51 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
DIELDRIN	60	300	2	30	110	12.5 U	99 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	12.5 U	51 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	12.5 U	99 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	12.5 U	99 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ENDRIN	25000	510000	1000	18000	180000	15.9	99 UJ	14.5	12.5 U	32.3	12.5 U	12.5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	12.5 U	99 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	12.5 U	28 J	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	12.5 U	51 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	28.7	75 J	23.8	12.5 U	47.6	12.5 U	12.5 U
HEPTACHLOR	200	1000	23000	110	380	12.5 U	51 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	12.5 U	51 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	12.5 U	510 UJ	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB007 S-00 06/30/01	SB008 S-00 06/30/01	SB009 S-00 06/27/01	SB010 S-00 06/30/01	SB010 S-01 06/30/01	SB010 S-02 06/30/01	SB010 S-02 12/19/01
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	101.9	12.5 U	12.5 U	2500	3000	**5300 [R]**	620
4,4'-DDE	2900	15000	18000	1700	7000	142.8	12.5 U	60.3	930	650	1200	560
4,4'-DDT	2900	15000	11000	1700	7000	164	12.5 U	21.6	**14000 [R,L]**	**6600 [R]**	**30000 [R,I,L]**	1900
ALDRIN	60	300	200	29	100	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	260 U
ALPHA-BHC	100	600	0.3	90	360	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	260 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	12.5 U	12.5 U	12.5 U	42.2	680	75.5	120 J
BETA-BHC	500	2400	1	320	1300	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	260 U
DELTA-BHC	24000	490000	200	90	360	12.5 U	12.5 U	12.5 U	12.5 U	22.2	23.2	260 U
DIELDRIN	60	300	2	30	110	12.5 U	12.5 U	12.5 U	**15.2 [L]**	**1000 [R,I,L]**	**66.6 [R,L]**	500 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	260 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	500 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	500 U
ENDRIN	25000	510000	1000	18000	180000	12.5 U	12.5 U	12.5 U	29.9	50.5	24.6	500 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	500 U
ENDRIN KETONE	NC	NC	NC	18000	180000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	20.5	500 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	260 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	12.5 U	12.5 U	12.5 U	65.6	750	81.1	260 U
HEPTACHLOR	200	1000	23000	110	380	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	260 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	13.7	260 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	12.5 U	25.4	12.5 U	12.5 U	12.5 U	13.5	2600 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB011 S-00 06/25/01	SB011 S-01 06/26/01	SB011 S-01 07/01/01	SB012 S-00 06/25/01	SB012 S-01 07/01/01	SB014 S-00 06/27/01	SB015 S-00 06/27/01
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	3800	81.7	12.5 U	1200	12.5 U	12.5 U	12.5 U
4,4'-DDE	2900	15000	18000	1700	7000	240	43	12.5 U	1050	17.6	12.5 U	69.8
4,4'-DDT	2900	15000	11000	1700	7000	370	60.9	12.5 U	1200	20.3	12.5 U	16
ALDRIN	60	300	200	29	100	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ALPHA-BHC	100	600	0.3	90	360	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	330	12.5 U	12.5 U	300	12.5 U	12.5 U	12.5 U
BETA-BHC	500	2400	1	320	1300	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
DELTA-BHC	24000	490000	200	90	360	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
DIELDRIN	60	300	2	30	110	**260 [R,L]**	12.5 U	12.5 U	**200 [R,L]**	12.5 U	12.5 U	12.5 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	200	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
ENDRIN	25000	510000	1000	18000	180000	200	12.5 U	12.5 U	220	12.5 U	12.5 U	12.5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	42.5	12.5 U	12.5 U	35.1	12.5 U	12.5 U	12.5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	550	12.5 U	12.5 U	530	12.5 U	12.5 U	12.5 U
HEPTACHLOR	200	1000	23000	110	380	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	12.5 U	12.5 U	12.5 U	15	12.5 U	12.5 U	12.5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	13.4	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB016 S-00 06/25/01	SB016 S-01 06/25/01	SB016 S-02 12/11/02	SB017 S-00 06/25/01	SB017 S-00 12/19/01	SB020 S-00 06/27/01	SB021 S-00 06/25/01
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	0.00 U	12.5 U	4.1	48.5	11 J	12.5 U	16
4,4'-DDE	2900	15000	18000	1700	7000	680	12.5 U	3 J	37.3	72	29.4	30.8
4,4'-DDT	2900	15000	11000	1700	7000	310	14.3	5.1	121.2	210	12.5 U	37
ALDRIN	60	300	200	29	100	12.5 U	12.5 U	2.1 U	12.5 U	11 U	12.5 U	12.5 U
ALPHA-BHC	100	600	0.3	90	360	12.5 U	12.5 U	2.1 U	12.5 U	11 U	12.5 U	12.5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	62.6	12.5 U	2.1 U	12.5 U	14	12.5 U	12.5 U
BETA-BHC	500	2400	1	320	1300	12.5 U	12.5 U	2.1 U	12.5 U	11 U	12.5 U	12.5 U
DELTA-BHC	24000	490000	200	90	360	12.5 U	12.5 U	2.1 U	12.5 U	11 U	12.5 U	12.5 U
DIELDRIN	60	300	2	30	110	**83 [R,L]**	12.5 U	0.81 J	12.5 U	**6.4 J [L]**	12.5 U	12.5 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	2.1 U	12.5 U	11 U	12.5 U	12.5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	4.1 U	12.5 U	22 U	12.5 U	12.5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	4.1 U	12.5 U	22 U	12.5 U	12.5 U
ENDRIN	25000	510000	1000	18000	180000	82.2	12.5 U	4.1 U	12.5 U	22 U	12.5 U	12.5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	12.5 U	50	4.1 U	12.5 U	22 U	12.5 U	54.3
ENDRIN KETONE	NC	NC	NC	18000	180000	12.5 U	12.5 U	4.1 U	12.5 U	22 U	12.5 U	12.5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	12.5 U	12.5 U	2.1 U	12.5 U	11 U	12.5 U	12.5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	860	12.5 U	2.1 U	14.6	11 U	12.5 U	12.5 U
HEPTACHLOR	200	1000	23000	110	380	12.5 U	12.5 U	2.1 U	12.5 U	11 U	12.5 U	12.5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	12.5 U	12.5 U	2.1 U	12.5 U	11 U	12.5 U	12.5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	12.5 U	12.5 U	21 U	12.5 U	110 U	12.5 U	12.5 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB022 S-00 06/25/01	SB023 S-00 06/25/01	SB024 S-00 06/25/01	SB024 S-01 06/26/01	SB025 S-00 06/27/01	SB025 S-00 12/20/01	SB025 S-01 12/20/01
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	57.1	14.1	840	21.4	440	35 U	3.6 U
4,4'-DDE	2900	15000	18000	1700	7000	520	36.8	840	40	1200	160	44
4,4'-DDT	2900	15000	11000	1700	7000	140	50.9	2300	67.2	1420	190	67
ALDRIN	60	300	200	29	100	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	18 U	1.9 U
ALPHA-BHC	100	600	0.3	90	360	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	18 U	1.9 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	12.5 U	12.5 U	1400	12.5 U	1380	190	47
BETA-BHC	500	2400	1	320	1300	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	18 U	1.9 U
DELTA-BHC	24000	490000	200	90	360	12.5 U	12.5 U	16.8	12.5 U	82.5	18 U	1.9 U
DIELDRIN	60	300	2	30	110	12.5 U	12.5 U	**93.4 [R,L]**	12.5 U	**116 [R,L]**	**27 J [L]**	**6 [L]**
ENDOSULFAN I	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	18 U	1.9 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	35 U	3.6 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	35 U	3.6 U
ENDRIN	25000	510000	1000	18000	180000	12.5 U	12.5 U	**1210 [L]**	30.7	**1020 [L]**	35 U	3.6 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	60.4	53.8	40.4	12.5 U	12.5 U	35 U	3.6 U
ENDRIN KETONE	NC	NC	NC	18000	180000	17.2	21.1	127.9	12.5 U	31.2	35 U	3.6 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	18 U	1.9 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	26.9	12.5 U	2400	37.4	2600	160	39
HEPTACHLOR	200	1000	23000	110	380	12.5 U	12.5 U	12.5 U	12.5 U	13.3	18 U	1.9 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	12.5 U	12.5 U	12.5 U	12.5 U	91.5	24	6.7
METHOXYCHLOR	420000	8800000	160000	310000	3100000	12.5 U	12.5 U	21	12.5 U	12.5 U	180 U	19 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB026 S-00 06/27/01	SB027 S-00 06/27/01	SB028 S-00 06/30/01	SB029 S-00 06/26/01	SB030 S-00 06/26/01	SB032 S-01 07/01/01	SB032 S-47 12/19/01
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	12.5 U	12.5 U	**5400 [R]**	30.2	12.5 U	1100	3.5 J
4,4'-DDE	2900	15000	18000	1700	7000	21.8	17.2	2300	104.6	24.8	340	4.3 U
4,4'-DDT	2900	15000	11000	1700	7000	12.5 U	15.7	2700	56.7	16.5	100.3	4.3 U
ALDRIN	60	300	200	29	100	12.5 U	12.5 U	12.5 U	13.9	12.5 U	12.5 U	2.2 U
ALPHA-BHC	100	600	0.3	90	360	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	2.2 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	12.5 U	12.5 U	360	12.5 U	12.5 U	60.7	2.2 U
BETA-BHC	500	2400	1	320	1300	12.5 U	**12.7 [L]**	12.5 U	12.5 U	12.5 U	12.5 U	2.2 U
DELTA-BHC	24000	490000	200	90	360	12.5 U	12.5 U	19	12.5 U	12.5 U	12.5 U	2.2 U
DIELDRIN	60	300	2	30	110	12.5 U	12.5 U	**122.3 [R,L]**	12.5 U	12.5 U	**14.6 [L]**	4.3 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	2.2 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	4.3 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	4.3 U
ENDRIN	25000	510000	1000	18000	180000	12.5 U	12.5 U	64.6	12.5 U	12.5 U	27.1	4.3 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	4.3 U
ENDRIN KETONE	NC	NC	NC	18000	180000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	4.3 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	2.2 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	12.5 U	12.5 U	280	12.5 U	12.5 U	60.3	2.2 U
HEPTACHLOR	200	1000	23000	110	380	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	2.2 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	2.2 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	22 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB040 S-00 12/20/01	SB041 S-00 12/18/01	SB042 S-00 12/20/01	SB044 S-00 12/20/01	SB050 S-00 12/18/01	SB051 S-00 12/18/01	SB055 S-01 12/11/02
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	4.6	3.8 U	760 J	800 J	10000 U	510	3.6 U
4,4'-DDE	2900	15000	18000	1700	7000	46	39	**13000 [R]**	**9600 [R]**	**12000 [R]**	1500	2.7 J
4,4'-DDT	2900	15000	11000	1700	7000	46	34	**7500 [R]**	**3600 [R]**	**180000 [R,I,L]**	2300	4.1
ALDRIN	60	300	200	29	100	2.2 U	2 U	1000 U	900 U	5300 U	240 U	1.9 U
ALPHA-BHC	100	600	0.3	90	360	2.2 U	2 U	1000 U	900 U	5300 U	240 U	1.9 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	2.1 J	5.2	2700	760 J	**14000 [R,L]**	1300	1.9 U
BETA-BHC	500	2400	1	320	1300	2.2 U	2 U	1000 U	900 U	5300 U	240 U	1.9 U
DELTA-BHC	24000	490000	200	90	360	2.2 U	2 U	1000 U	900 U	5300 U	240 U	1.9 U
DIELDRIN	60	300	2	30	110	4.4 U	1.9 J	2000 U	1800 U	**3400 J [R,I,L]**	**380 J [R,I,L]**	3.6 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	2.2 U	2 U	1000 U	900 U	5300 U	240 U	1.9 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	4.4 U	3.8 U	2000 U	1800 U	10000 U	470 U	3.6 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	4.4 U	3.8 U	2000 U	1800 U	10000 U	470 U	3.6 U
ENDRIN	25000	510000	1000	18000	180000	4.4 U	3.8 U	2000 U	1800 U	10000 U	470 U	3.6 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	4.4 U	1.8 J	2000 U	1800 U	10000 U	470 U	3.6 U
ENDRIN KETONE	NC	NC	NC	18000	180000	4.4 U	3.8 U	2000 U	1800 U	10000 U	470 U	3.6 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	2.2 U	2 U	1000 U	900 U	5300 U	240 U	1.9 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	2.8	5.6	2300	850 J	**9700 [R,L]**	520	1.9 U
HEPTACHLOR	200	1000	23000	110	380	2.2 U	2 U	**430 J [R]**	900 U	5300 U	240 U	1.9 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	2.2 U	0.82 J	1000 U	900 U	5300 U	96 J	1.9 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	22 U	20 U	10000 U	9000 U	53000 U	2400 U	19 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB056 S-00 12/18/01	SB056 S-01 12/11/02	SB056 S-02 12/11/02	SB057 S-01 12/11/02	SB058A S-01 12/11/02	SB058A S-02 01/20/03
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	42	3.6 U	3.7 U	1.5 J	2400 J	4.6 U
4,4'-DDE	2900	15000	18000	1700	7000	59	3.6 U	3.7 U	1.6 J	2200 J	4.6 U
4,4'-DDT	2900	15000	11000	1700	7000	57	1.8 J	1 J	55	**53000 [R,I,L]**	4.6 U
ALDRIN	60	300	200	29	100	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
ALPHA-BHC	100	600	0.3	90	360	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
BETA-BHC	500	2400	1	320	1300	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
DELTA-BHC	24000	490000	200	90	360	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
DIELDRIN	60	300	2	30	110	4.8 U	3.6 U	3.7 U	4.2 U	4400 U	4.6 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	4.8 U	3.6 U	3.7 U	4.2 U	4400 U	4.6 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	4.8 U	3.6 U	3.7 U	4.2 U	4400 U	4.6 U
ENDRIN	25000	510000	1000	18000	180000	4.8 U	3.6 U	3.7 U	4.2 U	4400 U	4.6 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	4.8 U	3.6 U	3.7 U	4.2 U	4400 U	4.6 U
ENDRIN KETONE	NC	NC	NC	18000	180000	4.8 U	3.6 U	3.7 U	4.2 U	4400 U	4.6 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
HEPTACHLOR	200	1000	23000	110	380	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	2.5 U	1.8 U	1.9 U	2.1 U	2300 U	2.4 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	25 U	18 U	19 U	21 U	23000 U	24 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB059 S-01 01/20/03	SB059 S-02 01/28/03	SB060 S-01 01/20/03	SB061 S-01 01/20/03	SB061 S-02 01/28/03	SB062 S-01 01/20/03	SB063 S-01 01/30/03
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	2.6 J	12	4.2 U	1.4 J	4.3 U	0.89 J	3.6 U
4,4'-DDE	2900	15000	18000	1700	7000	3.2 J	23	4.2 U	2.2 J	2.1 J	1.1 J	3.6 U
4,4'-DDT	2900	15000	11000	1700	7000	23	94	4.2 U	12	4.7	2.5 J	3.6 U
ALDRIN	60	300	200	29	100	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
ALPHA-BHC	100	600	0.3	90	360	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
BETA-BHC	500	2400	1	320	1300	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
DELTA-BHC	24000	490000	200	90	360	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
DIELDRIN	60	300	2	30	110	3.6 U	3.9 U	4.2 U	3.9 U	4.3 U	3.8 U	3.6 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	3.6 U	3.9 U	4.2 U	3.9 U	4.3 U	3.8 U	3.6 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	3.6 U	3.9 U	4.2 U	3.9 U	4.3 U	3.8 U	3.6 U
ENDRIN	25000	510000	1000	18000	180000	3.6 U	3.9 U	4.2 U	3.9 U	4.3 U	3.8 U	3.6 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	3.6 U	3.9 U	4.2 U	3.9 U	4.3 U	3.8 U	3.6 U
ENDRIN KETONE	NC	NC	NC	18000	180000	3.6 U	3.9 U	4.2 U	3.9 U	4.3 U	3.8 U	3.6 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
HEPTACHLOR	200	1000	23000	110	380	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	1.9 U	2 U	2.2 U	2 U	2.2 U	1.9 U	1.9 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	19 U	20 U	22 U	20 U	22 U	19 U	19 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB078 S-01 12/01/06	SB078 S-06 12/01/06	SB079 S-01 12/01/06	SB079 S-06 12/01/06	SB080 S-01 12/01/06	SB080 S-05 12/01/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	3.4 J	0.33 U	0.63 J	0.34 U	0.31 UJ	0.33 UJ
4,4'-DDE	2900	15000	18000	1700	7000	13	0.36 U	12 J	0.37 U	0.34 UJ	0.77 J
4,4'-DDT	2900	15000	11000	1700	7000	14 J	0.37 U	3.5 J	0.15 U	0.28 U	0.96 U
ALDRIN	60	300	200	29	100	0.21 U	0.22 U	0.21 UJ	0.22 U	0.21 UJ	0.22 UJ
ALPHA-BHC	100	600	0.3	90	360	0.24 J	0.15 U	0.14 UJ	0.15 U	0.14 UJ	0.15 UJ
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	0.38 J	0.29 U	19 J	0.64 J	0.45 J	7.7 J
BETA-BHC	500	2400	1	320	1300	0.34 U	0.36 U	0.35 UJ	0.37 U	0.34 UJ	0.36 UJ
DELTA-BHC	24000	490000	200	90	360	0.48 J	0.18 U	0.17 UJ	0.19 U	0.17 UJ	0.18 UJ
DIELDRIN	60	300	2	30	110	0.24 U	0.25 U	**2.3 J [L]**	0.26 U	0.24 UJ	0.25 UJ
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.27 U	0.29 U	0.28 UJ	0.30 U	0.27 UJ	0.40 J
ENDOSULFAN II	450000	7600000	3800	370000	3700000	0.24 U	0.25 U	0.24 UJ	0.26 U	0.24 UJ	0.25 UJ
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	0.45 J	0.29 U	0.28 UJ	0.30 U	0.27 UJ	0.29 UJ
ENDRIN	25000	510000	1000	18000	180000	0.38 U	0.40 U	0.38 UJ	0.41 U	0.38 UJ	0.40 UJ
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.17 UJ	0.18 UJ	0.17 UJ	0.76 J	0.17 UJ	0.18 UJ
ENDRIN KETONE	NC	NC	NC	18000	180000	0.31 U	0.33 U	0.31 UJ	0.34 UJ	0.31 UJ	0.33 UJ
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.17 U	0.18 U	0.17 UJ	0.19 U	0.17 UJ	0.18 UJ
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	0.76 J	0.26 J	17 J	0.34 J	0.38 J	10 J
HEPTACHLOR	200	1000	23000	110	380	0.24 U	0.25 U	0.24 UJ	0.26 U	0.24 UJ	0.29 J
HEPTACHLOR EPOXIDE	100	500	600	53	190	0.58 U	0.62 U	3.4 J	0.64 U	0.58 UJ	1.5 UJ
METHOXYCHLOR	420000	8800000	160000	310000	3100000	0.45 J	0.36 UJ	0.46 J	0.37 U	0.34 UJ	0.36 UJ

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB081 S-02 12/01/06	SB081 S-05 12/01/06	SB082 S-02 12/01/06	SB082 S-05 12/01/06	SB083 S-01 12/01/06	SB083 S-05 12/01/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	0.42 UJ	0.37 UJ	0.32 U	0.40 UJ	55 J	3.9 J
4,4'-DDE	2900	15000	18000	1700	7000	2.3 J	0.41 UJ	8.1	0.45 UJ	130	7.7
4,4'-DDT	2900	15000	11000	1700	7000	1.1 U	0.66 U	4.1 J	0.18 UJ	1200	25
ALDRIN	60	300	200	29	100	0.28 UJ	0.25 UJ	0.22 U	0.27 UJ	0.21 U	0.21 U
ALPHA-BHC	100	600	0.3	90	360	0.19 UJ	0.16 UJ	0.14 U	0.18 UJ	0.14 U	0.14 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	0.56 J	0.33 UJ	120	0.36 J	210	11
BETA-BHC	500	2400	1	320	1300	0.46 UJ	0.41 UJ	0.36 U	0.45 UJ	**1.4 J [L]**	0.71 J
DELTA-BHC	24000	490000	200	90	360	0.23 UJ	0.20 UJ	0.18 U	0.22 UJ	0.18 U	0.18 U
DIELDRIN	60	300	2	30	110	0.33 UJ	0.29 UJ	**28 [L]**	0.31 UJ	**11 J [L]**	0.81 J
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.37 UJ	0.33 UJ	0.29 U	0.36 UJ	7.2	0.32 J
ENDOSULFAN II	450000	7600000	3800	370000	3700000	0.33 UJ	0.29 UJ	0.25 U	0.31 UJ	0.25 U	0.25 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	0.37 UJ	0.33 UJ	0.33 J	0.36 UJ	0.50 J	0.28 U
ENDRIN	25000	510000	1000	18000	180000	0.51 UJ	0.45 UJ	0.40 U	0.49 UJ	0.39 U	0.39 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.23 UJ	0.20 UJ	0.18 U	0.22 UJ	0.18 UJ	0.57 J
ENDRIN KETONE	NC	NC	NC	18000	180000	0.42 UJ	0.37 UJ	0.32 UJ	0.40 UJ	0.32 U	0.71 UJ
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.23 UJ	0.20 UJ	0.18 U	0.22 UJ	0.18 U	0.18 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	0.70 J	0.29 UJ	140	0.32 J	300	14
HEPTACHLOR	200	1000	23000	110	380	0.33 UJ	0.29 UJ	0.25 U	0.31 UJ	0.96 J	0.25 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	0.79 UJ	0.70 UJ	3.3 J	0.76 UJ	15 J	0.60 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	0.46 UJ	0.41 UJ	0.36 U	0.45 UJ	0.35 U	1.1 J

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB084 S-01 11/29/06	SB084 S-05 11/29/06	SB085 S-01 11/29/06	SB085 S-05 11/29/06	SB086 S-01 11/29/06	SB086 S-06 11/29/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	6.4 J	0.33 U	5 J	0.34 UJ	2.4 J	0.31 UJ
4,4'-DDE	2900	15000	18000	1700	7000	240	0.88 J	55	0.37 UJ	44	0.98 J
4,4'-DDT	2900	15000	11000	1700	7000	150	1.2 J	73 J	0.38 J	27 J	0.77 U
ALDRIN	60	300	200	29	100	0.21 U	0.22 U	0.23 U	0.22 UJ	0.20 U	0.21 UJ
ALPHA-BHC	100	600	0.3	90	360	0.14 U	0.15 U	0.16 U	0.15 UJ	0.13 U	**3.2 J [L]**
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	**7900 J [R]**	28 J	16 J	0.30 UJ	0.27 U	0.70 J
BETA-BHC	500	2400	1	320	1300	1 J	0.36 U	0.39 U	0.37 UJ	**2.6 J [L]**	**250 [L]**
DELTA-BHC	24000	490000	200	90	360	0.17 U	0.18 U	0.20 U	0.19 UJ	0.34 J	**360 [L]**
DIELDRIN	60	300	2	30	110	**130 J [R,L]**	0.25 U	1.9 J	0.26 UJ	0.44 J	0.67 J
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.27 U	0.29 U	0.31 U	0.30 UJ	0.27 U	0.28 UJ
ENDOSULFAN II	450000	7600000	3800	370000	3700000	57 J	0.25 U	0.27 U	0.26 UJ	0.23 U	0.24 UJ
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	2.3 J	0.29 U	1.7 J	0.30 UJ	1.4 J	0.28 UJ
ENDRIN	25000	510000	1000	18000	180000	87 J	0.40 U	1.1 J	0.41 UJ	0.61 J	0.38 UJ
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.17 U	0.18 J	1.1 J	0.19 UJ	0.47 J	0.17 UJ
ENDRIN KETONE	NC	NC	NC	18000	180000	0.66 J	0.33 U	0.35 U	0.34 UJ	0.30 U	0.42 J
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	1.2 J	0.18 U	0.20 U	0.19 UJ	0.17 U	8 J
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	**4900 [R]**	19	3.4	0.26 UJ	0.71 J	9.2 J
HEPTACHLOR	200	1000	23000	110	380	52	0.40 J	0.27 U	0.26 UJ	0.23 U	0.24 UJ
HEPTACHLOR EPOXIDE	100	500	600	53	190	**850 [R,I,L]**	5.2	0.83 J	0.63 UJ	0.57 U	0.98 J
METHOXYCHLOR	420000	8800000	160000	310000	3100000	12 J	0.36 U	2.8	0.37 UJ	1.6 J	0.49 J

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB087 S-01 12/01/06	SB087 S-05 12/01/06	SB088 S-03 12/01/06	SB088 S-06 12/01/06	SB089 S-02 11/30/06	SB089 S-05 11/30/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	0.42 UJ	5.1	0.33 U	0.33 UJ	260 J	0.31 UJ
4,4'-DDE	2900	15000	18000	1700	7000	510 J	44 J	5.1 J	1.2 J	97 J	1 J
4,4'-DDT	2900	15000	11000	1700	7000	**3800 J [R]**	400 J	2.1	6.1 J	**5500 J [R]**	0.84 U
ALDRIN	60	300	200	29	100	0.28 UJ	0.26 U	0.22 U	0.22 UJ	0.21 UJ	0.21 U
ALPHA-BHC	100	600	0.3	90	360	**0.33 J [L]**	0.17 U	0.15 U	0.14 UJ	**0.91 J [L]**	**2.8 [L]**
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	9.9 J	1.1 J	0.29 UJ	0.29 UJ	540 J	18 J
BETA-BHC	500	2400	1	320	1300	**1.5 J [L]**	0.43 U	0.37 U	0.36 UJ	**110 J [L]**	**160 J [L]**
DELTA-BHC	24000	490000	200	90	360	1.1 J	0.22 U	0.18 U	0.18 UJ	1.5 J	**230 J [L]**
DIELDRIN	60	300	2	30	110	**83 J [R,L]**	**6.3 J [L]**	0.26 UJ	0.25 UJ	**160 J [R,L]**	0.42 J
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.37 UJ	0.35 UJ	0.29 UJ	0.29 UJ	0.28 UJ	0.28 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	220 J	39 J	0.26 UJ	0.58 J	14 J	0.31 J
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	6 J	0.35 U	0.29 U	0.29 UJ	0.95 J	0.28 U
ENDRIN	25000	510000	1000	18000	180000	0.80 J	0.48 U	0.40 U	0.40 UJ	0.38 UJ	0.38 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.23 UJ	0.22 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.17 U
ENDRIN KETONE	NC	NC	NC	18000	180000	0.89 J	0.39 U	0.33 U	0.33 UJ	3 J	0.91 J
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.28 J	0.22 U	0.18 U	0.18 UJ	3 J	7.2 J
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	11 J	1.3 J	0.30 J	0.33 J	710 J	6.4
HEPTACHLOR	200	1000	23000	110	380	0.33 UJ	0.30 U	0.26 U	0.25 UJ	15 J	0.24 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	3.9 J	0.74 UJ	0.62 UJ	0.61 UJ	42 J	1.1 J
METHOXYCHLOR	420000	8800000	160000	310000	3100000	3 J	0.43 U	0.37 U	0.36 UJ	0.35 UJ	0.35 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB090 S-03 12/01/06	SB090 S-03 12/01/06	SB090 S-06 12/01/06	SB091 S-01 12/01/06	SB091 S-04 12/01/06	SB091 S-04 12/01/06	SB091 S-06 12/01/06
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	0.32 U	0.67 J	3.6	1.9	14 J	11	0.35 UJ
4,4'-DDE	2900	15000	18000	1700	7000	2.3	3.8	0.35 U	5.2	83 J	32	0.67 J
4,4'-DDT	2900	15000	11000	1700	7000	2 J	6.4 J	0.60 U	8	250 J	210 J	1.3 J
ALDRIN	60	300	200	29	100	0.21 U	0.21 U	0.21 U	0.22 U	0.26 UJ	0.21 U	0.24 UJ
ALPHA-BHC	100	600	0.3	90	360	0.14 U	0.14 U	0.14 U	0.15 U	**0.40 J [L]**	**0.87 J [L]**	0.16 UJ
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	0.28 U	1.4 J	0.53 J	0.59 J	4.5 J	5.3	0.31 UJ
BETA-BHC	500	2400	1	320	1300	0.35 U	0.35 U	0.85 J	0.37 J	**240 J [L]**	**420 J [L]**	**1.9 J [L]**
DELTA-BHC	24000	490000	200	90	360	0.18 U	0.18 U	0.18 U	0.18 U	**230 J [L]**	**430 J [L]**	1.3 J
DIELDRIN	60	300	2	30	110	0.25 U	0.42 J	0.43 J	0.29 J	**39 J [L]**	0.24 U	0.48 J
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.28 U	0.39 J	0.28 U	0.29 U	0.35 UJ	0.27 U	0.31 UJ
ENDOSULFAN II	450000	7600000	3800	370000	3700000	0.25 U	1.1 J	0.25 U	0.25 U	0.31 UJ	0.24 U	0.27 UJ
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	0.28 U	0.28 U	0.28 U	0.29 U	0.67 J	0.42 J	0.31 UJ
ENDRIN	25000	510000	1000	18000	180000	0.39 U	0.38 U	0.39 U	0.40 U	0.49 UJ	0.80 J	0.43 UJ
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.18 U	0.17 UJ	0.18 U	0.29 J	0.49 J	0.17 J	0.20 UJ
ENDRIN KETONE	NC	NC	NC	18000	180000	0.32 U	0.31 U	0.60 J	0.33 U	1.1 J	1.1 J	0.35 UJ
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.18 U	0.18 U	0.18 U	0.18 U	0.49 J	0.56 J	0.20 UJ
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	0.43 J	1.7 J	0.25 U	0.77 J	3.5 J	5.9	0.27 UJ
HEPTACHLOR	200	1000	23000	110	380	0.25 U	0.25 U	0.25 UJ	0.25 U	0.31 UJ	0.24 U	0.27 UJ
HEPTACHLOR EPOXIDE	100	500	600	53	190	0.60 U	0.59 U	0.60 U	0.62 U	2.3 J	1.8 J	0.67 UJ
METHOXYCHLOR	420000	8800000	160000	310000	3100000	0.35 U	0.35 UJ	0.35 UJ	0.36 U	0.44 UJ	5.6 UJ	0.39 UJ

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB092 S-01 11/29/06	SB092 S-06 11/29/06	SB093 S-01 11/29/06	SB093 S-06 11/29/06	SB094 S-01 11/28/06	SB094 S-06 11/28/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	1.6 J	0.31 UJ	9.6 J	0.35 U	380 J	1900 J
4,4'-DDE	2900	15000	18000	1700	7000	70 J	1.6 J	550 J	0.39 U	540	55 J
4,4'-DDT	2900	15000	11000	1700	7000	22 J	1.3 U	360 J	1.4 U	2000	**4900 J [R]**
ALDRIN	60	300	200	29	100	0.20 UJ	0.21 UJ	0.20 UJ	0.23 U	0.20 U	0.24 J
ALPHA-BHC	100	600	0.3	90	360	0.13 UJ	0.14 UJ	0.13 UJ	0.16 U	**0.31 J [L]**	0.16 UJ
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	1.6 J	0.27 UJ	0.27 U	0.31 U	**50000 J [R,I,L]**	52 J
BETA-BHC	500	2400	1	320	1300	1 J	0.76 J	**1.1 J [L]**	0.39 U	**1.4 J [L]**	0.39 UJ
DELTA-BHC	24000	490000	200	90	360	0.17 UJ	0.17 UJ	0.17 UJ	0.19 U	0.17 U	0.20 UJ
DIELDRIN	60	300	2	30	110	1.3 J	0.24 UJ	1.1 J	0.27 U	**1100 J [R,I,L]**	0.28 UJ
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.40 UJ	0.27 UJ	0.27 U	0.31 U	400 J	0.32 UJ
ENDOSULFAN II	450000	7600000	3800	370000	3700000	1.3 J	0.24 UJ	0.24 U	0.27 U	4.7 U	0.28 UJ
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	0.57 UJ	0.27 UJ	11 J	0.31 U	110 J	0.32 UJ
ENDRIN	25000	510000	1000	18000	180000	0.37 UJ	0.38 UJ	0.37 U	0.43 U	**1400 [L]**	0.64 J
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.17 UJ	0.17 UJ	0.17 U	0.19 U	80 J	0.20 UJ
ENDRIN KETONE	NC	NC	NC	18000	180000	0.30 UJ	0.31 UJ	0.30 U	0.35 U	3.1 J	0.36 UJ
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.20 UJ	0.17 UJ	0.37 UJ	0.19 U	3.1 J	0.20 UJ
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	0.23 UJ	0.24 UJ	1.1 J	0.28 UJ	**37000 [R,I,L]**	52 J
HEPTACHLOR	200	1000	23000	110	380	0.23 UJ	0.24 UJ	0.24 UJ	0.27 U	150	0.60 J
HEPTACHLOR EPOXIDE	100	500	600	53	190	0.57 UJ	0.58 UJ	3.4 J	0.66 U	**920 J [R,I,L]**	12 J
METHOXYCHLOR	420000	8800000	160000	310000	3100000	2.6 J	0.34 UJ	1.5 J	0.39 U	56 J	0.39 UJ

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB095 S-01 11/28/06	SB095 S-06 11/28/06	SB096 S-01 11/30/06	SB096 S-05 11/30/06	SB097 S-01 11/28/06	SB097 S-06 11/28/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	110 J	0.35 U	**17000 J [R,L]**	0.90 J	5.9	0.37 U
4,4'-DDE	2900	15000	18000	1700	7000	860 J	0.39 U	**6100 J [R]**	1.9	130	0.54 J
4,4'-DDT	2900	15000	11000	1700	7000	**8000 J [R]**	0.44 J	**2700000 J [R,I,L]**	180	140	0.45 J
ALDRIN	60	300	200	29	100	0.21 UJ	0.24 U	0.20 UJ	0.20 U	0.21 U	0.25 U
ALPHA-BHC	100	600	0.3	90	360	**0.32 J [L]**	0.16 U	**3.7 J [L]**	0.14 U	0.14 U	0.16 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	550 U	0.32 U	**4200 J [R]**	1.1 J	0.28 U	0.33 U
BETA-BHC	500	2400	1	320	1300	**2.9 J [L]**	0.39 U	**24 J [L]**	0.34 U	0.49 J	0.41 U
DELTA-BHC	24000	490000	200	90	360	0.74 J	0.20 U	8.7 J	0.17 U	0.17 U	0.20 U
DIELDRIN	60	300	2	30	110	**800 J [R,I,L]**	0.28 U	**590 J [R,I,L]**	0.24 U	1.7 J	0.29 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.28 UJ	0.32 U	150 J	0.27 U	0.28 U	0.33 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	44 J	0.28 U	130 J	0.24 U	0.24 U	0.29 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	44 J	0.32 U	57 J	0.27 U	2.6 J	0.33 U
ENDRIN	25000	510000	1000	18000	180000	150 J	0.43 U	150 J	0.37 U	0.38 U	0.45 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	14 J	0.20 U	130 J	0.17 U	0.98 J	0.20 U
ENDRIN KETONE	NC	NC	NC	18000	180000	4 J	0.52 J	39 J	0.31 U	0.31 U	0.37 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	2.8 J	0.20 U	4.5 J	0.17 U	0.17 U	0.20 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	490 U	0.28 U	**5900 J [R]**	1.8	6.2 J	0.29 U
HEPTACHLOR	200	1000	23000	110	380	1.1 J	0.28 U	**3400 J [R,I]**	0.45 J	0.24 U	0.29 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	**140 J [R]**	0.67 U	**740 J [R,I,L]**	0.58 U	1.7 J	0.70 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	140 J	0.91 J	210 J	0.34 U	1.6 J	0.41 UJ

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB098 S-01 11/30/06	SB098 S-05 11/30/06	SB099 S-01 11/30/06	SB099 S-05 11/30/06	SB100 S-01 11/30/06	SB100 S-05 11/30/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	2.4	0.77 J	280 J	1.4 J	460 J	1000
4,4'-DDE	2900	15000	18000	1700	7000	28	0.35 U	2200 J	3.6	530	8.4 J
4,4'-DDT	2900	15000	11000	1700	7000	64	2	**5100 J [R]**	8.5 J	1300 J	14 J
ALDRIN	60	300	200	29	100	0.22 U	0.21 U	0.21 UJ	0.23 U	0.31 J	0.21 U
ALPHA-BHC	100	600	0.3	90	360	0.14 U	0.14 U	0.18 J	0.15 U	**2 J [L]**	**22 [L]**
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	2.7	0.28 U	610 J	0.86 J	0.49 J	0.49 J
BETA-BHC	500	2400	1	320	1300	0.36 UJ	0.35 UJ	**2.9 J [L]**	0.39 U	**3.5 J [L]**	**2.1 [L]**
DELTA-BHC	24000	490000	200	90	360	0.18 UJ	0.17 UJ	0.85 J	0.19 U	3.7 J	13
DIELDRIN	60	300	2	30	110	1 J	0.24 U	**320 J [R,I,L]**	0.35 J	**53 J [L]**	0.60 J
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.29 U	0.28 U	0.28 UJ	0.31 U	0.28 UJ	0.28 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	0.25 U	0.24 U	0.25 UJ	0.27 U	0.24 UJ	0.24 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	0.29 U	0.28 U	28 J	0.31 U	2.2 J	0.28 UJ
ENDRIN	25000	510000	1000	18000	180000	0.40 U	0.38 U	0.39 UJ	0.42 U	9.9 J	0.38 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.18 U	0.17 U	0.18 UJ	0.19 U	0.17 UJ	0.25 J
ENDRIN KETONE	NC	NC	NC	18000	180000	0.32 U	0.31 U	0.32 UJ	0.35 UJ	0.31 UJ	0.31 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.18 U	0.17 U	0.53 J	0.19 U	1.1 J	0.32 J
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	2.9 J	0.24 U	540 J	0.82 J	120 J	1.1 J
HEPTACHLOR	200	1000	23000	110	380	0.25 U	0.24 U	0.85 J	0.27 U	0.24 UJ	0.24 UJ
HEPTACHLOR EPOXIDE	100	500	600	53	190	1.7 J	0.59 U	**130 J [R]**	0.66 U	24 J	1.2 J
METHOXYCHLOR	420000	8800000	160000	310000	3100000	0.36 U	0.35 U	30 J	0.39 U	38 J	0.35 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB101 S-01 11/29/06	SB101 S-05 11/29/06	SB102 S-01 11/29/06	SB102 S-05 11/29/06	SB103 S-01 11/29/06	SB103 S-05 11/29/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	1.1 J	2.2 J	3.2	0.31 U	0.33 UJ	0.40 U
4,4'-DDE	2900	15000	18000	1700	7000	18	0.40 UJ	66	0.34 U	0.36 UJ	1.8 J
4,4'-DDT	2900	15000	11000	1700	7000	13	73 J	180	2.9	0.48 U	2.7
ALDRIN	60	300	200	29	100	0.28 U	0.24 UJ	0.20 U	0.20 U	0.22 UJ	0.27 U
ALPHA-BHC	100	600	0.3	90	360	0.18 U	0.16 UJ	0.14 U	0.14 U	0.15 UJ	0.18 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	1.7 J	0.32 J	0.27 U	0.27 U	0.29 UJ	0.85 J
BETA-BHC	500	2400	1	320	1300	0.46 U	0.40 UJ	0.34 U	0.34 U	0.36 UJ	0.45 U
DELTA-BHC	24000	490000	200	90	360	0.23 U	0.20 UJ	0.17 U	0.17 U	0.18 UJ	0.22 U
DIELDRIN	60	300	2	30	110	0.32 U	0.28 UJ	0.24 U	0.24 U	0.25 UJ	0.31 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.37 U	0.32 UJ	0.27 U	0.27 U	0.29 UJ	0.36 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	0.32 U	0.28 UJ	0.24 U	0.24 U	0.25 UJ	0.31 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	0.37 U	0.32 UJ	0.27 U	0.27 U	0.29 UJ	0.36 U
ENDRIN	25000	510000	1000	18000	180000	0.51 U	0.43 UJ	0.37 U	0.37 U	0.40 UJ	0.49 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.23 U	0.20 UJ	0.17 U	0.17 U	0.18 UJ	0.22 U
ENDRIN KETONE	NC	NC	NC	18000	180000	0.41 U	0.36 UJ	0.30 U	0.31 U	0.33 UJ	0.40 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.23 U	0.20 UJ	0.17 U	0.17 U	0.18 UJ	0.22 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	0.42 J	0.36 J	0.34 J	0.24 U	0.33 UJ	0.85 J
HEPTACHLOR	200	1000	23000	110	380	0.32 U	0.28 UJ	0.24 U	0.24 U	0.25 UJ	0.31 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	0.78 U	0.67 UJ	0.58 U	0.58 U	0.62 UJ	0.76 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	0.46 U	0.40 UJ	0.34 U	0.34 U	0.36 UJ	0.45 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB104 S-01 11/29/06	SB104 S-05 11/29/06	SB105 S-01 11/30/06	SB105 S-05 11/30/06	SB106 S-01 11/30/06	SB106 S-05 11/30/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	2.5	0.33 U	300 J	0.68 J	820 J	0.31 U
4,4'-DDE	2900	15000	18000	1700	7000	13	0.37 U	1400	2.9	1600 J	0.35 U
4,4'-DDT	2900	15000	11000	1700	7000	84 J	0.22 U	**4400 J [R]**	3.9 J	**27000 J [R,I,L]**	6.2 J
ALDRIN	60	300	200	29	100	0.22 U	0.22 U	0.21 U	0.22 U	1.7 J	0.21 U
ALPHA-BHC	100	600	0.3	90	360	0.15 U	0.15 U	**0.56 J [L]**	0.15 U	**3 J [L]**	0.14 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	0.33 J	0.30 U	520 J	1.4 J	1700	0.28 U
BETA-BHC	500	2400	1	320	1300	0.37 U	0.37 U	**11 J [L]**	0.37 U	**27 J [L]**	0.35 U
DELTA-BHC	24000	490000	200	90	360	0.18 U	0.19 U	0.94 J	0.19 U	1.5 J	0.17 U
DIELDRIN	60	300	2	30	110	0.26 U	0.26 U	**400 [R,I,L]**	0.26 J	**3400 [R,I,L]**	0.49 J
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.29 U	0.30 U	0.28 U	0.30 U	0.27 U	0.28 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	0.26 U	0.26 U	0.24 U	0.26 U	0.24 U	0.24 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	0.29 U	0.30 U	27 J	0.30 UJ	7.7 J	0.28 U
ENDRIN	25000	510000	1000	18000	180000	0.40 U	0.41 U	23 J	0.41 U	200	0.38 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.18 U	0.19 U	0.17 UJ	0.19 UJ	0.17 UJ	0.17 U
ENDRIN KETONE	NC	NC	NC	18000	180000	0.33 U	0.33 U	8.2 J	0.34 U	1.3 J	0.31 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.18 U	0.19 U	0.80 J	0.19 U	2.4	0.17 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	0.45 J	0.30 UJ	400	1.3 J	1300	0.28 J
HEPTACHLOR	200	1000	23000	110	380	0.26 U	0.26 U	12 J	0.26 UJ	2.9 J	0.24 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	0.62 U	0.63 U	98 J	0.64 U	**170 [R]**	0.59 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	0.37 U	0.37 U	36 J	0.37 U	89 J	0.35 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB107 S-01 11/30/06	SB107 S-05 11/30/06	SB108 S-01 11/29/06	SB108 S-06 11/29/06	SB109 S-01 11/29/06	SB109 S-06 11/29/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	60 J	0.31 U	280	120	110 J	3.9 J
4,4'-DDE	2900	15000	18000	1700	7000	670	1.4 J	290	26	440	11
4,4'-DDT	2900	15000	11000	1700	7000	1400 J	2.9 J	650	37	**4200 [R]**	28
ALDRIN	60	300	200	29	100	0.20 U	0.21 U	0.20 U	0.21 U	0.21 U	0.22 U
ALPHA-BHC	100	600	0.3	90	360	**0.41 J [L]**	0.14 U	0.14 U	0.14 U	0.14 U	0.15 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	750 J	1.3 J	56	94	98	12
BETA-BHC	500	2400	1	320	1300	**2.6 [L]**	0.35 U	0.69 J	0.35 U	0.80 J	0.37 U
DELTA-BHC	24000	490000	200	90	360	0.41 J	0.17 U	0.17 U	0.18 U	0.17 U	0.18 U
DIELDRIN	60	300	2	30	110	**820 [R,I,L]**	1.5 J	**29 [L]**	**40 [L]**	**40 [L]**	**3 [L]**
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.27 U	0.28 U	0.27 U	0.28 U	0.27 U	0.29 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	3.3 J	0.24 U	0.24 U	0.97 J	0.24 U	0.26 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	3.6 J	0.28 U	3 J	0.28 U	3.4 J	0.29 U
ENDRIN	25000	510000	1000	18000	180000	52	0.38 U	1.1 J	12 J	1.8 J	0.40 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.17 UJ	0.17 U	3.7 J	0.18 U	0.17 U	0.18 U
ENDRIN KETONE	NC	NC	NC	18000	180000	1.4 J	0.31 U	0.31 U	0.32 U	0.35 J	0.33 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	1.3 J	0.17 U	0.17 U	0.18 U	0.17 U	0.18 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	500	1.2 J	74	100	82	11
HEPTACHLOR	200	1000	23000	110	380	2.1	0.24 U	0.24 U	0.25 U	0.24 J	0.26 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	82 J	0.59 U	18 J	0.60 U	19 J	0.85 UJ
METHOXYCHLOR	420000	8800000	160000	310000	3100000	25 J	0.35 U	0.69 J	0.35 U	0.55 J	0.37 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB110 S-01 11/30/06	SB110 S-05 11/30/06	SB111 S-01 11/29/06	SB111 S-05 11/29/06	SB112 S-01 11/29/06	SB112 S-05 11/29/06
Pesticides/PCBs (ug/kg)											
4,4'-DDD	4200	22000	5800	2400	1000	65 J	**55000 J [R,I,L]**	3.6	0.41 U	1.3 J	0.40 UJ
4,4'-DDE	2900	15000	18000	1700	7000	1300 J	2300 J	98	0.45 U	26 J	2.1 J
4,4'-DDT	2900	15000	11000	1700	7000	1400 J	**59000 J [R,I,L]**	34	0.50 U	9.3 J	2.2 U
ALDRIN	60	300	200	29	100	0.20 UJ	0.22 UJ	0.21 U	0.27 U	0.27 UJ	0.27 UJ
ALPHA-BHC	100	600	0.3	90	360	0.27 J	0.15 UJ	0.14 U	0.18 U	0.18 UJ	0.18 UJ
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	230 J	560 J	1 J	0.36 U	0.36 UJ	0.49 J
BETA-BHC	500	2400	1	320	1300	**1.7 J [L]**	**3 J [L]**	0.34 U	0.45 U	0.44 UJ	0.44 UJ
DELTA-BHC	24000	490000	200	90	360	0.58 J	2.3 J	0.17 U	0.23 U	0.22 UJ	0.22 UJ
DIELDRIN	60	300	2	30	110	**160 J [R,L]**	0.26 UJ	1.6 J	0.32 U	0.31 UJ	0.31 UJ
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.27 UJ	0.29 UJ	0.27 U	0.36 U	0.36 UJ	0.36 UJ
ENDOSULFAN II	450000	7600000	3800	370000	3700000	0.24 UJ	10 J	0.24 U	0.32 U	0.31 UJ	0.31 UJ
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	10 J	7.2 J	0.90 UJ	0.36 U	0.36 UJ	0.36 UJ
ENDRIN	25000	510000	1000	18000	180000	46 J	49 J	0.38 U	0.50 U	0.49 UJ	0.49 UJ
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	13 J	0.18 UJ	0.24 J	0.23 U	0.22 UJ	0.22 UJ
ENDRIN KETONE	NC	NC	NC	18000	180000	9.7 J	0.33 UJ	0.31 J	0.41 U	0.40 UJ	0.40 UJ
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.96 J	0.18 UJ	0.17 U	0.23 U	0.22 UJ	0.22 UJ
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	220 J	1000 J	3.1	0.32 U	0.54 J	0.58 J
HEPTACHLOR	200	1000	23000	110	380	0.41 J	190 J	0.24 J	0.32 U	0.31 UJ	0.31 UJ
HEPTACHLOR EPOXIDE	100	500	600	53	190	34 J	**280 J [R]**	3.6	0.77 U	0.76 UJ	0.76 UJ
METHOXYCHLOR	420000	8800000	160000	310000	3100000	12 J	0.37 UJ	1.2 J	0.45 UJ	0.44 UJ	0.44 UJ

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	SB113 S-01 11/29/06	SB113 S-06 11/29/06	SB118 S-01 03/13/07	SB118 S-03 03/13/07	SB120 S-01 03/09/07
Pesticides/PCBs (ug/kg)										
4,4'-DDD	4200	22000	5800	2400	1000	0.42 U	6.1	0.33 U	0.34 U	0.40 U
4,4'-DDE	2900	15000	18000	1700	7000	65	3.6	0.37 J	0.38 U	0.45 U
4,4'-DDT	2900	15000	11000	1700	7000	99	3.4	0.33 J	0.15 U	0.18 U
ALDRIN	60	300	200	29	100	0.28 U	0.26 U	0.22 U	0.23 U	0.27 U
ALPHA-BHC	100	600	0.3	90	360	0.19 U	0.17 U	0.14 U	0.15 U	0.18 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	0.38 UJ	7.9 J	0.29 U	0.31 U	0.36 U
BETA-BHC	500	2400	1	320	1300	0.47 U	0.44 J	0.36 U	0.38 U	0.45 U
DELTA-BHC	24000	490000	200	90	360	0.23 U	0.22 J	2.2 U	0.19 U	0.22 U
DIELDRIN	60	300	2	30	110	1.3 J	**2.5 [L]**	1.9 J	0.27 U	0.31 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	0.38 U	0.35 U	0.29 U	0.31 U	0.36 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	0.33 U	0.31 U	0.25 U	0.27 U	0.31 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	0.90 J	0.35 U	0.29 U	0.31 U	0.36 U
ENDRIN	25000	510000	1000	18000	180000	0.95 J	0.48 U	0.40 U	0.42 U	0.49 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	0.23 UJ	0.22 UJ	0.18 U	0.19 U	0.22 U
ENDRIN KETONE	NC	NC	NC	18000	180000	0.42 U	0.39 U	0.33 U	0.34 U	0.40 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	0.23 U	0.22 U	0.18 U	0.19 U	0.22 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	0.52 J	2.1 J	0.25 U	0.27 U	0.31 U
HEPTACHLOR	200	1000	23000	110	380	0.33 UJ	0.31 UJ	0.25 U	0.27 U	0.31 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	0.80 U	0.74 U	0.62 U	0.65 U	0.76 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	0.47 U	0.44 U	0.36 U	0.38 U	0.45 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	JX01215 S-02 02/23/99	JX01216 S-02 02/23/99	JX01217 S-02 02/23/99	JX01218 S-02 02/23/99	JX01219 S-01 02/23/99	JX01220 S-02 02/23/99	JX01221 S-02 02/23/99
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,4'-DDE	2900	15000	18000	1700	7000	**4200 [R]**	**28000 [R,I,L]**	320	210	**8000 [R]**	74	21
4,4'-DDT	2900	15000	11000	1700	7000	5 U	**44000 [R,I,L]**	620	2000	**56000 [R,I,L]**	170	73
ALDRIN	60	300	200	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-BHC	100	600	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	55
BETA-BHC	500	2400	1	320	1300	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DELTA-BHC	24000	490000	200	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIELDRIN	60	300	2	30	110	**730 [R,I,L]**	5 U	**120 [R,L]**	**57 [L]**	5 U	**14 [L]**	**6 [L]**
ENDOSULFAN I	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN	25000	510000	1000	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	43
HEPTACHLOR	200	1000	23000	110	380	**570 [R]**	5 U	**780 [R]**	5 U	190	5 U	5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	JX01222 S-02 02/23/99	JX01223 S-02 02/23/99	JX01228 S-02 02/24/99	JX01229 S-01 02/24/99	JX01230 S-02 02/24/99	JX01231 S-02 02/24/99	JX01232 S-01 02/24/99
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,4'-DDE	2900	15000	18000	1700	7000	39	38	**7200 [R]**	150	2.5	57	180
4,4'-DDT	2900	15000	11000	1700	7000	140	58	**13000 [R,L]**	350	20	470	920
ALDRIN	60	300	200	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-BHC	100	600	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BETA-BHC	500	2400	1	320	1300	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DELTA-BHC	24000	490000	200	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIELDRIN	60	300	2	30	110	**29 [L]**	**2.6 [L]**	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN	25000	510000	1000	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR	200	1000	23000	110	380	3.7	5 U	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	JX01233 S-04 02/24/99	JX01234 S-01 02/24/99	JX01246 S-04 02/25/99	JX01247 S-04 02/25/99	JX01248 S-03 02/25/99	JX01249 S-03 02/25/99	JX01250 S-04 02/25/99
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,4'-DDE	2900	15000	18000	1700	7000	6.8	18	82	**4000 [R]**	1200	5.6	3.1
4,4'-DDT	2900	15000	11000	1700	7000	16	5 U	98	**130000 [R,I,L]**	**7800 [R]**	370	96
ALDRIN	60	300	200	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-BHC	100	600	0.3	90	360	5 U	5 U	5 U	**2500 [R,I,L]**	5 U	**14 [L]**	**5.7 [L]**
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BETA-BHC	500	2400	1	320	1300	5 U	5 U	5 U	**4200 [R,I,L]**	**560 [R,L]**	**19 [L]**	**13 [L]**
DELTA-BHC	24000	490000	200	90	360	5 U	5 U	5 U	**30000 [R,L]**	**6100 [L]**	53	31
DIELDRIN	60	300	2	30	110	5 U	5 U	**5.8 [L]**	5 U	5 U	5 U	**1300 [R,I,L]**
ENDOSULFAN I	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN	25000	510000	1000	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	4.1
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	5 U	5 U	5 U	**4000 [R,I,L]**	**220 [L]**	**49 [L]**	8.8
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR	200	1000	23000	110	380	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	5 U	5 U	8.2	5 U	5 U	5 U	5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	JX01251 S-04 02/25/99	JX01252 S-04 02/26/99	JX01253 S-04 02/26/99	JX01254 S-01 02/26/99	JX01255 S-03 03/01/99	JX01256 S-03 03/01/99	JX01257 S-01 03/01/99
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	5 U	1400	5	5 U	2.2	340	5 U
4,4'-DDE	2900	15000	18000	1700	7000	4.5	680	5 U	3	18	280	2
4,4'-DDT	2900	15000	11000	1700	7000	85	**3600 [R]**	5	5 U	4.2	1100	5 U
ALDRIN	60	300	200	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-BHC	100	600	0.3	90	360	**5 [L]**	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BETA-BHC	500	2400	1	320	1300	**7 [L]**	**41 [L]**	5 U	5 U	5 U	**7.4 [L]**	5 U
DELTA-BHC	24000	490000	200	90	360	20	140	5 U	5 U	5 U	5 U	5 U
DIELDRIN	60	300	2	30	110	**2.4 [L]**	**640 [R,I,L]**	5 U	5 U	2	**31 [L]**	5 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN	25000	510000	1000	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	3.4	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR	200	1000	23000	110	380	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	5 U	5 U	5 U	5 U	2	5 U	5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	JX01258 S-01 03/01/99	JX01259 S-01 03/01/99	JX01260 S-01 03/01/99	JX01261 S-04 03/01/99	JX01262 S-03 03/01/99	JX01263 S-01 03/01/99	JX01264 S-01 03/01/99
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	17	3.1	13	**5000 [R]**	**20000 [R,L]**	11	10
4,4'-DDE	2900	15000	18000	1700	7000	64	5.6	10	510	**4300 [R]**	38	25
4,4'-DDT	2900	15000	11000	1700	7000	5 U	6.6	6.5	320	**39000 [R,I,L]**	20	22
ALDRIN	60	300	200	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-BHC	100	600	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BETA-BHC	500	2400	1	320	1300	5 U	5 U	5 U	5 U	5 U	5 U	**46 [L]**
DELTA-BHC	24000	490000	200	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIELDRIN	60	300	2	30	110	5 U	5 U	5 U	**140 [R,L]**	**700 [R,I,L]**	**14 [L]**	**23 [L]**
ENDOSULFAN I	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN	25000	510000	1000	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	38	5 U	5 U	**3900 [R]**	5 U	5 U	5 U
HEPTACHLOR	200	1000	23000	110	380	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	5 U	5 U	5 U	5 U	5 U	5 U	5.6
METHOXYCHLOR	420000	8800000	160000	310000	3100000	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	JX01265 S-03 03/01/99	JX01266 S-03 03/01/99	JX01274 S-02 03/02/99	JX01275 S-02 03/02/99	JX01276 S-02 03/02/99	JX01277 S-02 03/02/99	JX01278 S-01 03/02/99
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	1800	**91000 [R,I,L]**	140	5 U	5 U	**12000 [R,L]**	90
4,4'-DDE	2900	15000	18000	1700	7000	2000	**25000 [R,I,L]**	62	280	9.9	**5400 [R]**	120
4,4'-DDT	2900	15000	11000	1700	7000	**26000 [R,I,L]**	**420000 [R,I,L]**	290	140	5.6	**74000 [R,I,L]**	530
ALDRIN	60	300	200	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-BHC	100	600	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BETA-BHC	500	2400	1	320	1300	5 U	5 U	5 U	5 U	5 U	5 U	**72 [L]**
DELTA-BHC	24000	490000	200	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIELDRIN	60	300	2	30	110	5 U	5 U	5 U	**59 [L]**	**23 [L]**	**560 [R,I,L]**	**21 [L]**
ENDOSULFAN I	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN	25000	510000	1000	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	430	360	5 U	5 U	5 U
HEPTACHLOR	200	1000	23000	110	380	5 U	5 U	170	5 U	5 U	**210 [R]**	5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 5-1
Summary of Detected Pesticide Concentrations in Soil Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	JX01279 S-01 03/02/99	JX01283 S-02 03/03/99	JX01284 S-02 03/03/99	JX01285 S-02 03/03/99	JX01286 S-01 03/03/99	JX01290 S-03 03/04/99	JX01291 S-01 03/04/99
Pesticides/PCBs (ug/kg)												
4,4'-DDD	4200	22000	5800	2400	1000	60	49	4200	**10000 [R,L]**	120	5 U	81
4,4'-DDE	2900	15000	18000	1700	7000	46	210	1900	2500	360	5 U	20
4,4'-DDT	2900	15000	11000	1700	7000	160	940	**17000 [R,I,L]**	**22000 [R,I,L]**	1600	5 U	340
ALDRIN	60	300	200	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-BHC	100	600	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BETA-BHC	500	2400	1	320	1300	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DELTA-BHC	24000	490000	200	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIELDRIN	60	300	2	30	110	5 U	**320 [R,I,L]**	**180 [R,L]**	5 U	5 U	5 U	5 U
ENDOSULFAN I	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN	25000	510000	1000	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	5 U	5 U	5 U	**210 [L]**	5 U	5 U	5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR	200	1000	23000	110	380	5 U	110	**260 [R]**	5 U	5 U	5 U	5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	5 U	55	5 U	5 U	5 U	5 U	5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Boring JAX47- Sample ID SAMPLE DATE	FDEP SCTL RESIDENTIAL	FDEP SCTL INDUSTRIAL	FDEP SCTL LEACHABILITY	REGION 9 PRGs RESIDENTIAL	REGION 9 PRGs INDUSTRIAL	JX01292 S-04 03/08/99	JX01293 S-03 03/08/99	JX01294 S-01 03/08/99	JX01295 S-01 03/08/99	JX01296 S-03 03/08/99
Pesticides/PCBs (ug/kg)										
4,4'-DDD	4200	22000	5800	2400	1000	**170000 [R,I,L]**	**4300 [R]**	3.1	22	**220000 [R,I,L]**
4,4'-DDE	2900	15000	18000	1700	7000	**5100 [R]**	2400	5 U	5 U	**7500 [R]**
4,4'-DDT	2900	15000	11000	1700	7000	2600	**30000 [R,I,L]**	5 U	5 U	**6500 [R]**
ALDRIN	60	300	200	29	100	5 U	5 U	5 U	5 U	5 U
ALPHA-BHC	100	600	0.3	90	360	5 U	5 U	5 U	5 U	5 U
ALPHA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	**37000 [R,I,L]**
BETA-BHC	500	2400	1	320	1300	5 U	5 U	5 U	5 U	5 U
DELTA-BHC	24000	490000	200	90	360	**3100 [L]**	5 U	5 U	5 U	**7800 [L]**
DIELDRIN	60	300	2	30	110	**6200 [R,I,L]**	5 U	5 U	**6.5 [L]**	**9000 [R,I,L]**
ENDOSULFAN I	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN II	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U
ENDOSULFAN SULFATE	450000	7600000	3800	370000	3700000	5 U	5 U	5 U	5 U	5 U
ENDRIN	25000	510000	1000	18000	180000	5 U	5 U	5 U	5 U	5 U
ENDRIN ALDEHYDE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U
ENDRIN KETONE	NC	NC	NC	18000	180000	5 U	5 U	5 U	5 U	5 U
GAMMA-BHC (LINDANE)	700	2500	9	440	1700	5 U	5 U	5 U	5 U	5 U
GAMMA-CHLORDANE	2800	14000	9600	1600	6500	5 U	5 U	5 U	5 U	**47000 [R,I,L]**
HEPTACHLOR	200	1000	23000	110	380	5 U	5 U	5 U	5 U	5 U
HEPTACHLOR EPOXIDE	100	500	600	53	190	5 U	5 U	5 U	5 U	5 U
METHOXYCHLOR	420000	8800000	160000	310000	3100000	5 U	5 U	5 U	5 U	5 U

Notes:

Concentrations in bold exceed Florida SCTL
SCTL = Soil Cleanup Target Levels (Chapter 62-777 F.A.C.)

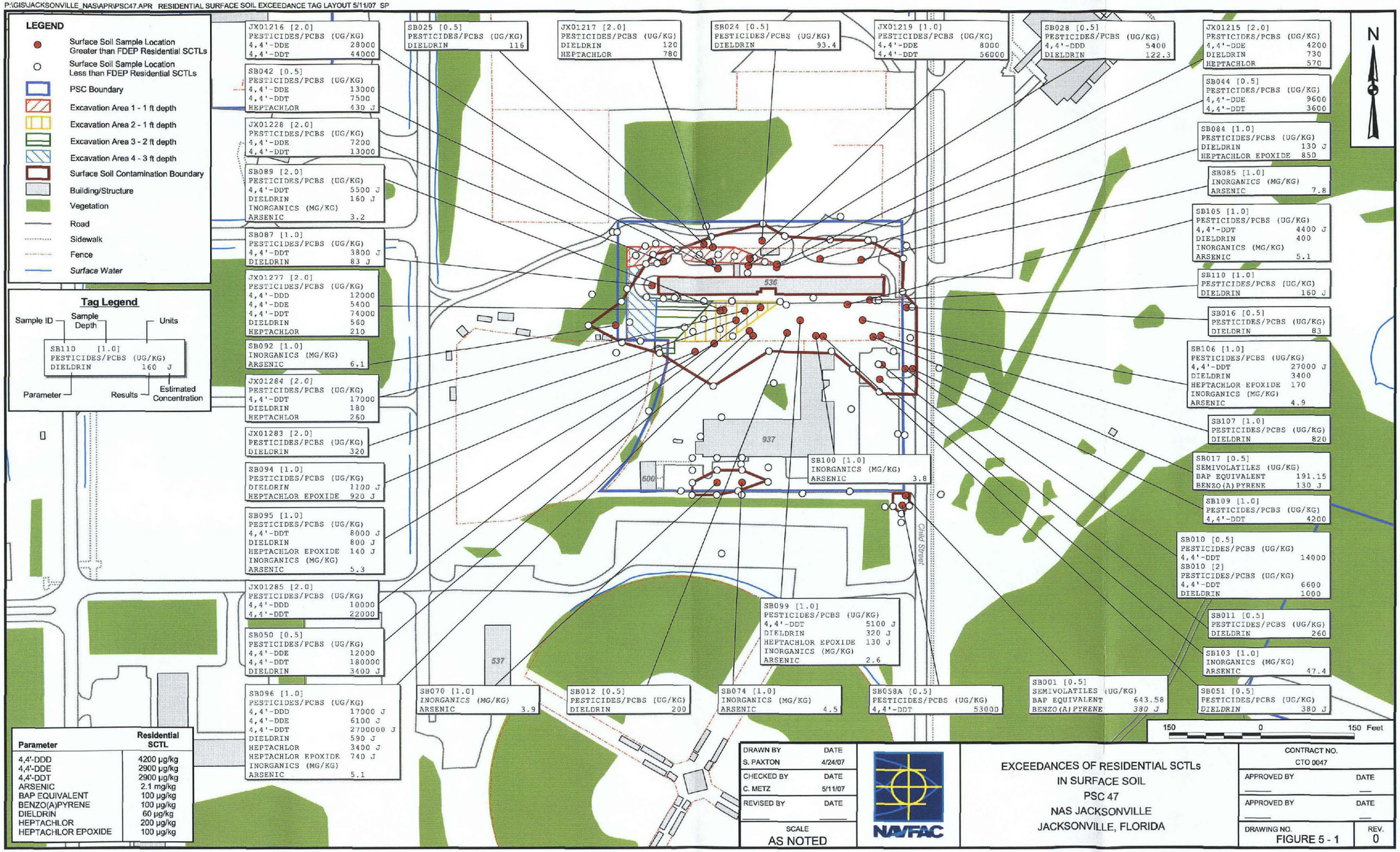
R - Residential
I - Industrial
L - Leachability

µg/kg - milligrams per kilogram
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethylene

DDT - dichlorodiphenyltrichloroethane
BHC - benzene hexachloride
PCB - polychlorinated biphenyl

U - less than laboratory method detection limit
J - estimated

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR RESIDENTIAL SURFACE SOIL EXCEEDANCE TAG LAYOUT 5/11/07 SP



Parameter	Residential SCTL
4,4'-DDD	4200 µg/kg
4,4'-DDE	2900 µg/kg
4,4'-DDT	2900 µg/kg
ARSENIC	2.1 mg/kg
BAP EQUIVALENT	100 µg/kg
BENZO(A)PYRENE	100 µg/kg
DIELDRIN	60 µg/kg
HEPTACHLOR	200 µg/kg
HEPTACHLOR EPOXIDE	100 µg/kg

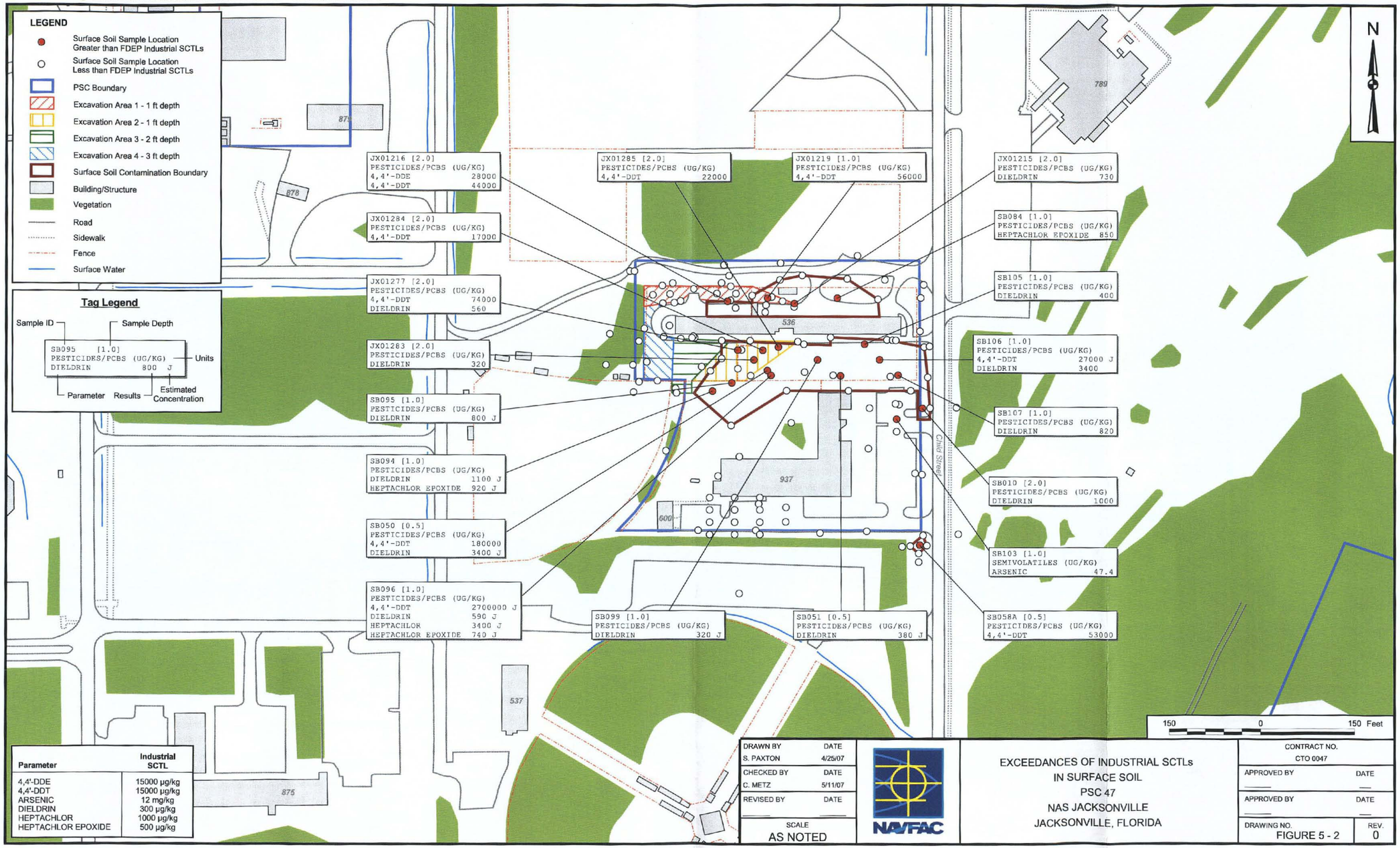
DRAWN BY	DATE
S. PAXTON	4/24/07
CHECKED BY	DATE
C. METZ	5/11/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXCEEDANCES OF RESIDENTIAL SCTLs
IN SURFACE SOIL
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 1
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR INDUSTRIAL SURFACE SOIL EXCEEDANCE TAG LAYOUT 5/11/07 SP



Parameter	Industrial SCTL
4,4'-DDE	15000 µg/kg
4,4'-DDT	15000 µg/kg
ARSENIC	12 mg/kg
DIELDRIN	300 µg/kg
HEPTACHLOR	1000 µg/kg
HEPTACHLOR EPOXIDE	500 µg/kg

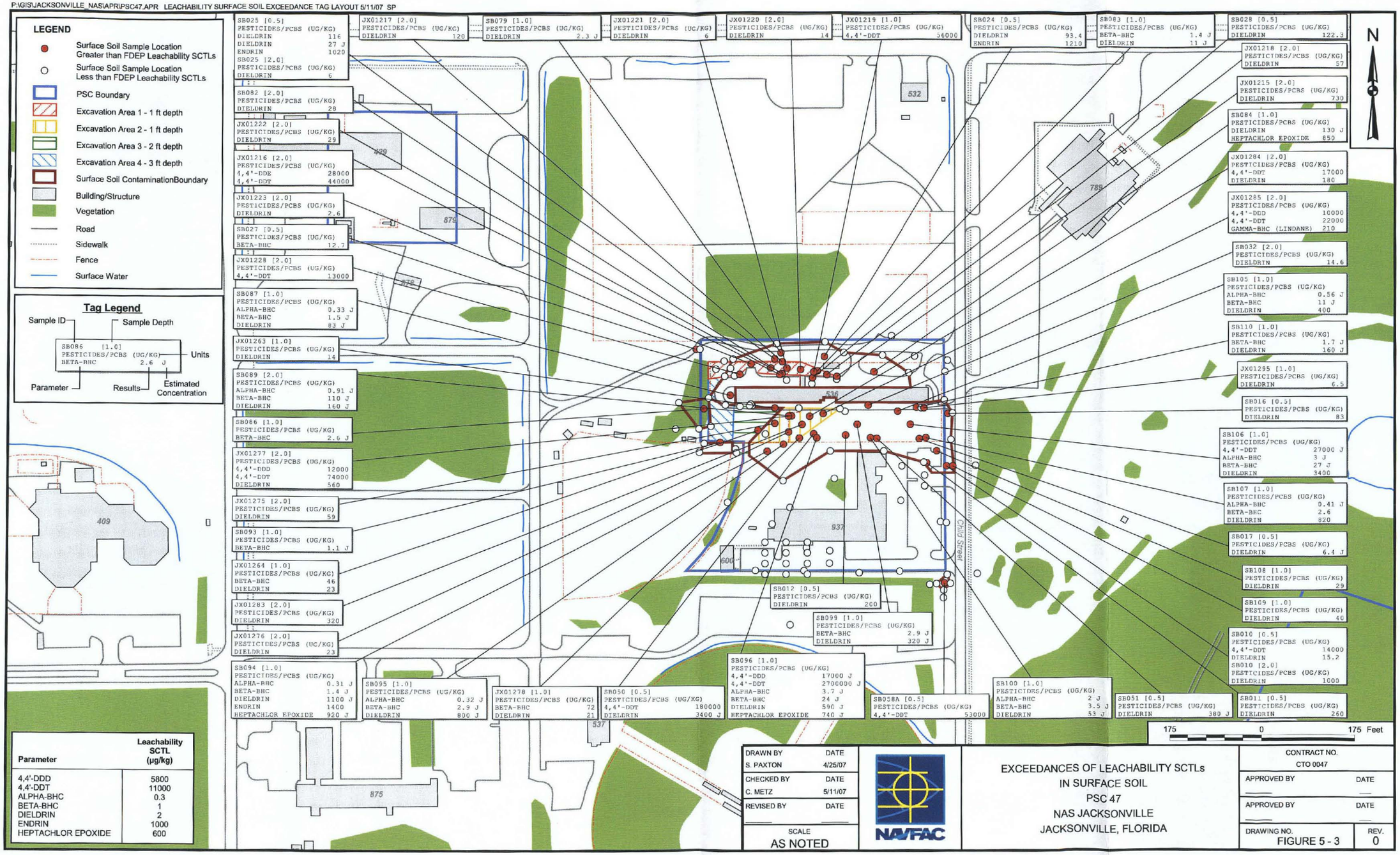
DRAWN BY	DATE
S. PAXTON	4/25/07
CHECKED BY	DATE
C. METZ	5/11/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXCEEDANCES OF INDUSTRIAL SCTLs
IN SURFACE SOIL
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 2
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR LEACHABILITY SURFACE SOIL EXCEEDANCE TAG LAYOUT 5/11/07 SP



Parameter	Leachability SCTL (µg/kg)
4,4'-DDD	5800
4,4'-DDT	11000
ALPHA-BHC	0.3
BETA-BHC	1
DIELDRIN	2
ENDRIN	1000
HEPTACHLOR EPOXIDE	600

DRAWN BY	DATE
S. PAXTON	4/25/07
CHECKED BY	DATE
C. METZ	5/11/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXCEEDANCES OF LEACHABILITY SCTLs
IN SURFACE SOIL
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 3
REV.	0

Seven TCL pesticides were detected at concentrations exceeding leachability criteria in surface soil samples. Pesticide leachability exceedances are shown on Figure 5-3. Three (alpha-BHC, beta-BHC, and endrin) of the seven TCL pesticides exceeded only leachabilty criteria while the remaining four (4,4'-DDD; 4,4'-DDT; dieldrin; and heptachlor epoxide) also exceeded residential and/or industrial criteria. Highest concentration and locations of the three exceedances for leachabilty only were: alpha-BHC (3.7 µg/kg) in SB96, beta-BHC (110 µg/kg) in SB89, and endrin (1,400 µg/kg) in SB594.

As indicated on Figures 5-1, 5-2, and 5-3, pesticide exceedances in surface soil samples are distributed over a broad area of PSC 47. Elevated pesticide concentrations in surface soils are present to the north and south of the Pesticide Shop, in the drainage ditch along Child Street in the northeastern portion of PSC 47, and in one isolated location (SB01) in the southeastern corner of the study area.

5.3.1.1.2 TCL VOCs and SVOCs

Three surface soil samples, collected during the second stage of the Phase I investigation (December 2001), were shipped to Katahdin for analysis of TCL VOCs and SVOCs. One surface soil sample, collected during the Phase III investigation (March 2007), was hand delivered to ENCO for analysis of TCL VOCs and SVOCs. Constituents reported at concentrations exceeding any criteria (residential, industrial, and leachability) are shown in Table 5-2. Concentrations exceeding residential criteria (no industrial or leachability exceedances were reported) are depicted on Figure 5-3. Validated laboratory reports are included in Appendix J.

The samples analyzed originated from the southeastern corner (SB01) of the PSC, south-central area (SB118), the east-central area (SB017), and the north-central area north of the Pesticide Shop (SB25). One SVOC compound was reported at a concentration exceeding residential criteria in SB001 (benzo(a)pyrene equivalent at 643.58 µg/kg) and SB017 (benzo(a)pyrene equivalent at 191.15 µg/kg). No SVOCs were identified in SB25 or SB118.

No VOCs were identified in excess of criteria.

5.3.1.1.3 OP Pesticides and PCBs

No OP pesticides or PCBs were reported exceeding criteria in the surface soil samples analyzed.

Table 5-2
VOC/SVOC Exceedances in Soil

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION	FDEP SCTLs			REGION 9 PRGs		JAX47-SB001	JAX47-SB010	JAX47-SB017
SAMPLE ID						JAX47-SB001-00-121901	JAX47-SB010-02-121901	JAX47-SB017-00-121901
MATRIX						SS	SB	SS
TOP DEPTH	RESIDENTIAL	INDUSTRIAL	LEACHABILITY	RESIDENTIAL	INDUSTRIAL	0	2	0
BOTTOM DEPTH						0.5	3	0.5
SAMPLE DATE						20011219	20011219	20011219
Volatile Organics (ug/kg)								
2-BUTANONE	16000000	110000000	17000	22000000	110000000	77	43	12
ACETONE	11000000	68000000	25000	14000000	54000000	22 U	43	7 U
METHYLENE CHLORIDE	17000	26000	20	9100	21000	20 J	8	6 J
TOLUENE	7500000	60000000	500	520000	520000	22 U	6 J	7 U
Semivolatile Organics (ug/kg)								
BAP EQUIVALENT	100	700	8000	62	210	**643.58 [R]**	**409.97 [R]**	**191.15 [R]**
BENZO(A)ANTHRACENE	NL	NL	800	620	2100	230 J	86 J	120 J
BENZO(A)PYRENE	100	700	8000	62	210	**380 J [R]**	**120 J [R]**	**130 J [R]**
BENZO(B)FLUORANTHENE	NL	NL	2400	620	2100	560 J	180 J	120 J
BENZO(G,H,I)PERYLENE	2500000	52000000	32000000	2300000	29000000	420 J	110 J	67 J
BENZO(K)FLUORANTHENE	NL	NL	24000	6200	21000	410 J	120 J	140 J
BIS(2-ETHYLHEXYL)PHTHALATE	72000	390000	3600000	35000	120000	1400	88 J	130 J
BUTYL BENZYL PHTHALATE	17000000	380000000	310000	12000000	100000000	360 J	500 U	35 J
CHRYSENE	NL	NL	77000	62000	210000	480 J	170 J	150 J
DIBENZO(A,H)ANTHRACENE	NL	NL	700	62	210	140 J	500 U	28 J
DIMETHYL PHTHALATE	690000000	NL	380000	100000000	100000000	340 J	500 U	430 U
FLUORANTHENE	3200000	59000000	1200000	2300000	22000000	530 J	190 J	93 J
INDENO(1,2,3-CD)PYRENE	NL	NL	6600	620	2100	400 J	120 J	76 J
PHENANTHRENE	2200000	36000000	250000	2300000	29000000	160 J	49 J	21 J
PYRENE	2400000	45000000	880000	2300000	29000000	520 J	210 J	120 J

Notes:

Concentrations in bold exceed Florida SCTL

R - Residential

I - Industrial

L - Leachability

SCTL = Soil Cleanup Target Levels (Chapter 62-777 F.A.C.)

U - less than laboratory method detection limit

J - estimated

µg/kg - milligrams per kilogram

Table 5-2
VOC/SVOC Exceedances in Soil

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION	FDEP SCTLs			REGION 9 PRGs		JAX47-SB025	JAX47-SB118	JAX47-SB118
SAMPLE ID						JAX47-SB025-00-122001	JAX47-SB118-01-031307	JAX47-SB118-03-031307
MATRIX						SS	SS	SB
TOP DEPTH	RESIDENTIAL	INDUSTRIAL	LEACHABILITY	RESIDENTIAL	INDUSTRIAL	0	0	2
BOTTOM DEPTH						0.5	1	3
SAMPLE DATE						20011220	20070313	20070313
Volatile Organics (ug/kg)								
2-BUTANONE	16000000	110000000	17000	22000000	110000000	14	1.4 UR	1.3 UR
ACETONE	11000000	68000000	25000	14000000	54000000	6 U	23.7 J	43.2 J
METHYLENE CHLORIDE	17000	26000	20	9100	21000	6	5.6 J	5.1 J
TOLUENE	7500000	60000000	500	520000	520000	6 U	0.40 U	0.20 U
Semivolatile Organics (ug/kg)								
BAP EQUIVALENT	100	700	8000	62	210	360 U	127 U	134 U
BENZO(A)ANTHRACENE	NL	NL	800	620	2100	360 U	170 U	180 U
BENZO(A)PYRENE	100	700	8000	62	210	360 U	127 U	134 U
BENZO(B)FLUORANTHENE	NL	NL	2400	620	2100	360 U	120 U	126 U
BENZO(G,H,I)PERYLENE	2500000	52000000	32000000	2300000	29000000	360 U	152 U	160 U
BENZO(K)FLUORANTHENE	NL	NL	24000	6200	21000	360 U	145 U	153 U
BIS(2-ETHYLHEXYL)PHTHALATE	72000	390000	3600000	35000	120000	360 U	221 U	233 U
BUTYL BENZYL PHTHALATE	17000000	380000000	310000	12000000	100000000	360 U	137 U	145 U
CHRYSENE	NL	NL	77000	62000	210000	360 U	148 U	156 U
DIBENZO(A,H)ANTHRACENE	NL	NL	700	62	210	360 U	210 U	221 U
DIMETHYL PHTHALATE	690000000	NL	380000	100000000	100000000	360 U	123 U	130 U
FLUORANTHENE	3200000	59000000	1200000	2300000	22000000	360 U	153 U	161 U
INDENO(1,2,3-CD)PYRENE	NL	NL	6600	620	2100	360 U	206 U	218 U
PHENANTHRENE	2200000	36000000	250000	2300000	29000000	360 U	153 U	161 U
PYRENE	2400000	45000000	880000	2300000	29000000	360 U	159 U	168 U

Notes:

Concentrations in bold exceed Florida SCTL

R - Residential

I - Industrial

L - Leachability

SCTL = Soil Cleanup Target Levels (Chapter 62-777 F.A.C.)

U - less than laboratory method detection limit

J - estimated

µg/kg - milligrams per kilogram

5.3.1.1.4 Arsenic

Arsenic was detected in 27 of 56 surface soil samples analyzed. The concentration and location of the maximum detected arsenic sample was 47.4 mg/kg in SB103. Twelve arsenic samples (SB070, SB074, SB085, SB089, SB092, SB095, SB096, SB099, SB100, SB103, SB105, and SB106) exceeded residential criteria in surface soil. Ten of the 12 arsenic exceedances were located around the Pesticide Shop and the remaining two samples (SB070, and SB074) were located off the southwest corner of Building 937. One (SB103) of the 12 residential exceedances also exceeded industrial criteria. The only industrial exceedance (SB103) was from a sample collected underneath the existing parking lot on the northeast side of the DVECC building.

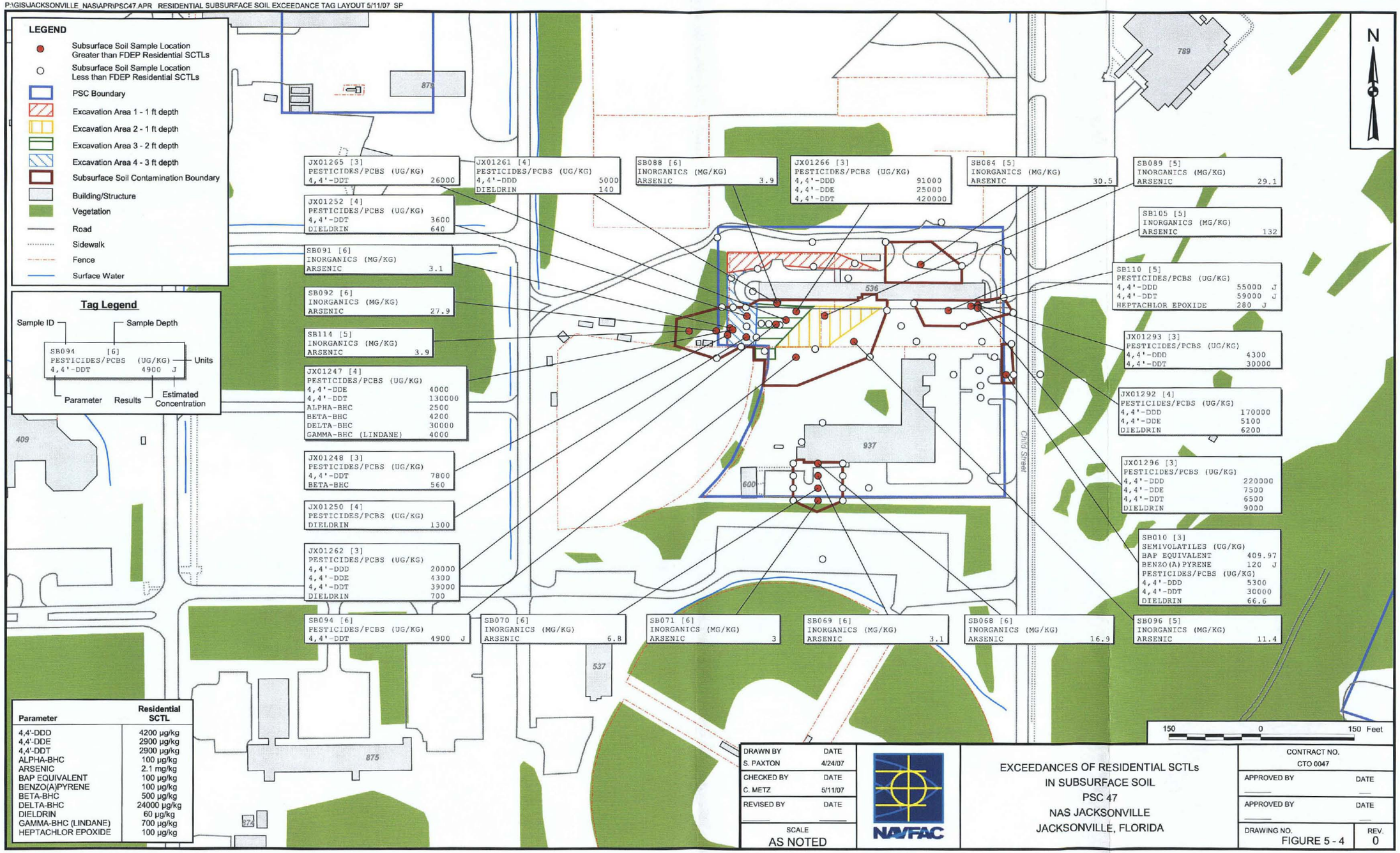
5.3.1.2 Subsurface Soil

Nineteen (19) subsurface soil samples (greater than 2 ft bls), including nine collected from the soakage pit excavations, were analyzed by BEI following the 1999 soil removal action. Three (3) subsurface samples were analyzed during Phase I/II of the RI investigation as a follow-up to positive hits on the surface soil samples. All Phase I/II subsurface samples were analyzed for TCL pesticides, two were analyzed for OP pesticides (SB10, 2-3 ft bls and SB32, 47-48 ft bls) and one was analyzed for PCBs, VOCs, and SVOCs (SB10, 2-3 ft bls). Fifty-four (54) subsurface soil samples were analyzed during Phase III RI sampling for TCL pesticides and/or arsenic. One subsurface soil sample, SB118, was also analyzed for TCL herbicides, TCL VOCs, and TCL SVOCs. Table D-4 in Appendix D lists the analysis performed on each sample. Laboratory analytical methods were the same as those listed in Section 5.3.1.1.

5.3.1.2.1 TCL Pesticides

TCL pesticide concentrations reported in the subsurface soil samples are listed in Table 5-1. Concentrations exceeding residential, industrial, and leachability criteria are illustrated on Figures 5-4, 5-5, and 5-6, respectively. Mobile laboratory analytical reports on subsurface soil samples are included in Appendix I and validated reports on subsurface soil samples analyzed by a fixed-base laboratory are included in Appendix J Phase I and III data.

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR RESIDENTIAL SUBSURFACE SOIL EXCEEDANCE TAG LAYOUT 5/11/07 SP



Parameter	Residential SCTL
4,4'-DDD	4200 µg/kg
4,4'-DDE	2900 µg/kg
4,4'-DDT	2900 µg/kg
ALPHA-BHC	100 µg/kg
ARSENIC	2.1 mg/kg
BAP EQUIVALENT	100 µg/kg
BENZO(A)PYRENE	100 µg/kg
BETA-BHC	500 µg/kg
DELTA-BHC	24000 µg/kg
DIELDRIN	60 µg/kg
GAMMA-BHC (LINDANE)	700 µg/kg
HEPTACHLOR EPOXIDE	100 µg/kg

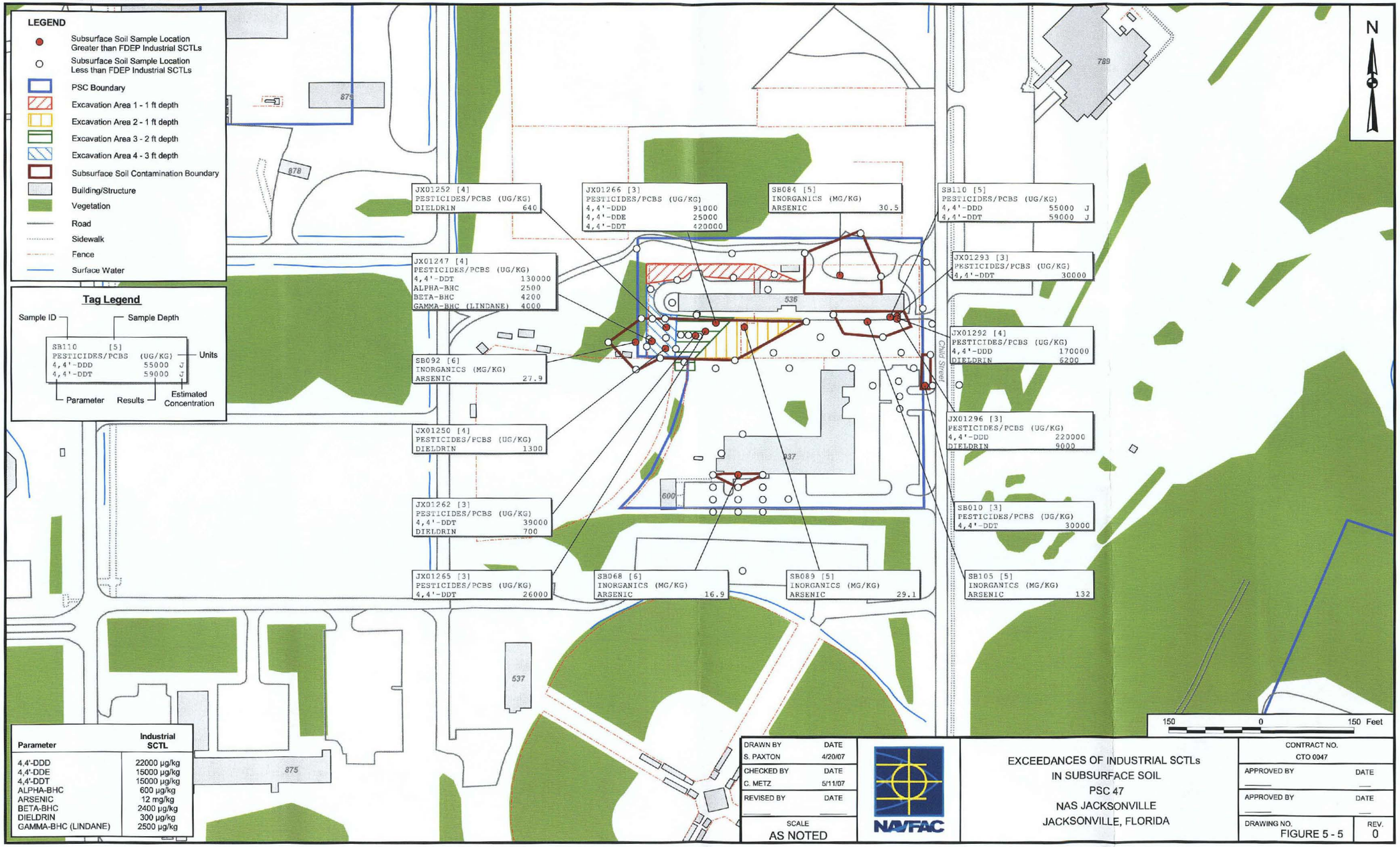
DRAWN BY	DATE
S. PAXTON	4/24/07
CHECKED BY	DATE
C. METZ	5/11/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXCEEDANCES OF RESIDENTIAL SCTLs
IN SUBSURFACE SOIL
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 4
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR INDUSTRIAL SUBSURFACE SOIL EXCEEDANCE TAG LAYOUT 5/11/07 SP



Parameter	Industrial SCTL
4,4'-DDD	22000 µg/kg
4,4'-DDE	15000 µg/kg
4,4'-DDT	15000 µg/kg
ALPHA-BHC	600 µg/kg
ARSENIC	12 mg/kg
BETA-BHC	2400 µg/kg
DIELDRIN	300 µg/kg
GAMMA-BHC (LINDANE)	2500 µg/kg

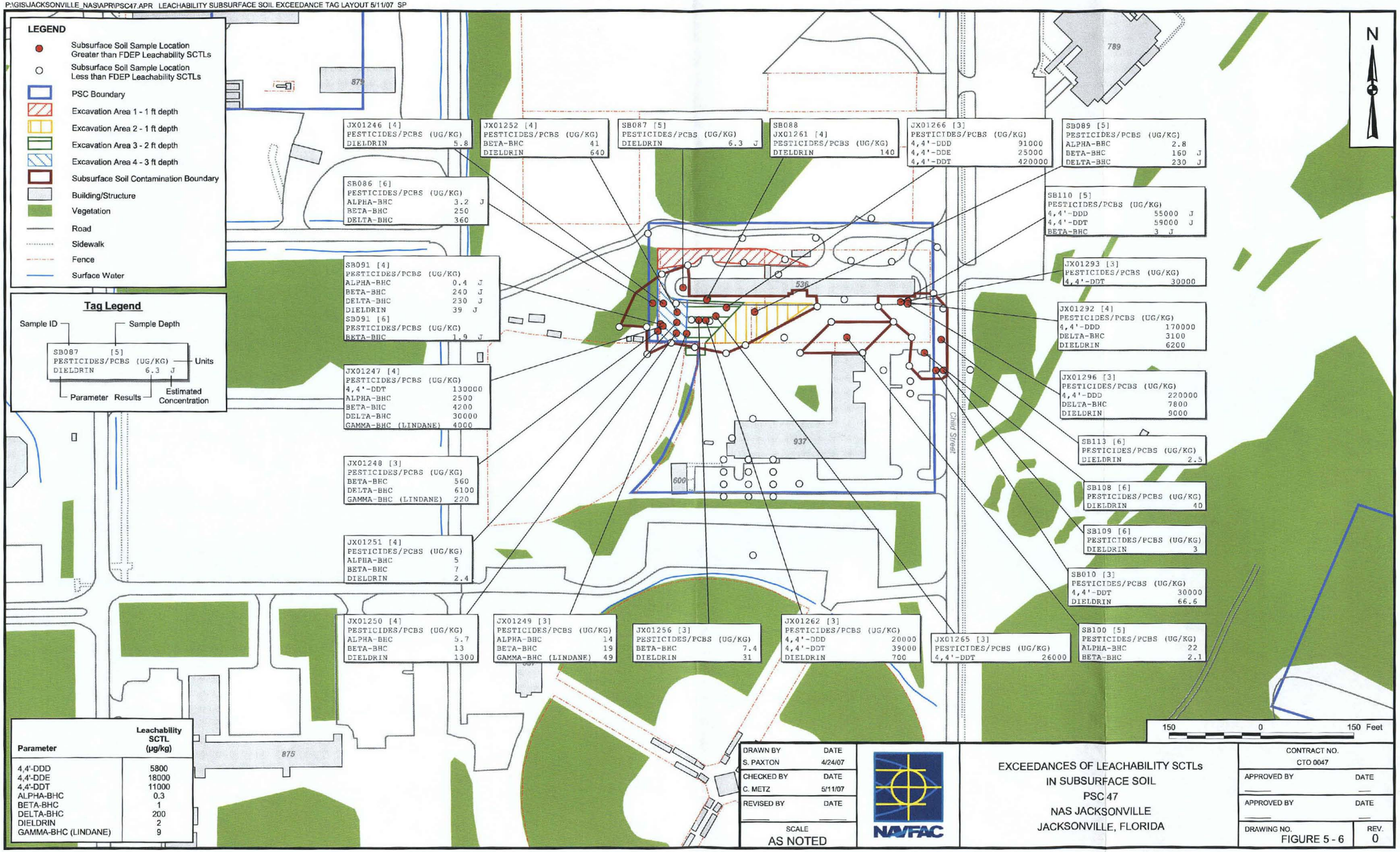
DRAWN BY	DATE
S. PAXTON	4/20/07
CHECKED BY	DATE
C. METZ	5/11/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXCEEDANCES OF INDUSTRIAL SCTLs
IN SUBSURFACE SOIL
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 5
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR LEACHABILITY SUBSURFACE SOIL EXCEEDANCE TAG LAYOUT 5/11/07 SP



Parameter	Leachability SCTL (µg/kg)
4,4'-DDD	5800
4,4'-DDE	18000
4,4'-DDT	11000
ALPHA-BHC	0.3
BETA-BHC	1
DELTA-BHC	200
DIELDRIN	2
GAMMA-BHC (LINDANE)	9

DRAWN BY	DATE
S. PAXTON	4/24/07
CHECKED BY	DATE
C. METZ	5/11/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXCEEDANCES OF LEACHABILITY SCTLs
IN SUBSURFACE SOIL
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 6
REV.	0

Ten TCL pesticide compounds were reported at concentrations exceeding residential criteria (see Figure 5-4) in the subsurface soil samples analyzed by BEI (1999 post excavation samples) and by TtNUS during RI field activities. The most commonly reported pesticide compounds exceeding residential criteria were 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, beta-BHC, delta-BHC, dieldrin, gamma-BHC (lindane), heptachlor, and heptachlor epoxide. Seven (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, beta-BHC gamma-BHC (lindane), and dieldrin) of the ten TCL pesticides exceeding residential criteria also exceeded industrial criteria. Industrial exceedances of pesticides are shown on Figure 5-5. Highest concentrations and locations of the these most-frequently reported pesticide compounds were: 4,4'-DDD (220,000 µg/kg) and dieldrin (9,000 µg/kg) in BEI sample JX01296; 4,4'-DDE (25,000 µg/kg) and 4,4'-DDT (420,000 µg/kg) in BEI sample JX01266; alpha-BHC (2,500 µg/kg), beta-BHC (4,200 µg/kg), delta-BHC (30,000 µg/kg), and gamma-BHC (4,000 µg/kg) in BEI sample JX01247; and heptachlor (190 µg/kg) and heptachlor epoxide (280 µg/kg) in SB110.

Eight TCL pesticides were detected at concentrations exceeding leachability criteria in subsurface soil samples. Pesticide leachability exceedances are shown on Figure 5-6. All seven TCL pesticides that exceeded industrial criteria also exceeded leachabilty criteria. Delta-BHC (4,200 µg/kg) in JX01247 was the only leachability exceedance that was not also an industrial exceedances. Highest concentration and locations of the remaining seven leachability exceedances (same as industrial exceedances) were listed in the previous paragraph.

As indicated on Figures 5-4, 5-5, and 5-6, pesticide exceedances in subsurface soil samples are primarily located within the fenced area on the west and south side of the Pesticide Shop and in the drainage ditch along Child Street (immediately southwest of the Pesticide Shop). Distribution of individual pesticide contaminants is random within the contaminated subsurface soil.

5.3.1.2.2 COCs Other than TCL Pesticides

Arsenic was detected in 24 of 56 subsurface soil samples analyzed. The concentration and location of the maximum detected arsenic sample was 132 mg/kg in SB105. Thirteen arsenic samples (SB068, SB069, SB070, SB071, SB084, SB088, SB089, SB091, SB092, SB096, SB105, and SB114) exceeded residential criteria in subsurface soil. Eight (SB084, SB088, SB089, SB091, SB092, SB096, SB105, and SB114) of the 13 arsenic exceedances were located around the Pesticide Shop (seven located on southside of Building) and the remaining four samples (SB068, SB069, SB070, and SB071) were located off the southwest corner of Building 937. Five (SB068, SB084, SB089, SB092, and SB105) of the 13 residential exceedances also exceeded industrial criteria. Four of the five industrial exceedances were located within the fenced area around the Pesticide Shop with the fifth sample (SB068) located off the southwest corner of Building 937.

A sample collected 2 to 3 ft bls at SB010 and SB118 were the only subsurface soil samples analyzed for an extended list of COCs other than TCL pesticides or arsenic (i.e., TCL VOCs and SVOCs, PCBs, herbicides, and OP pesticides). The only constituent reported in excess of criteria was benzo(a)pyrene equivalent at 409.97 µg/kg (estimated) in SB010, which exceeds its residential SCTL of 100 µg/kg. No other SVOCs, VOCs, PCBs, herbicides, or OP pesticides were reported in excess of screening criteria.

A deep, saturated soil sample collected 47 to 48 ft bls at SB32 was analyzed for OP pesticides and none were detected.

5.3.1.3 Soil SPLP Data

Eightteen (18) Phase III samples were analyzed for pesticide and arsenic SPLP. The intent was to determine if site specific soil leachability criteria could be derived. Please refer to Appendix D, Table D-4, for a list of samples analyzed for SPLP. A summary of the SPLP data with corresponding soil data for each sample is provided in Table 5-3. Validated fixed-based laboratory reports listing SPLP analytical results are provided in Appendix J.

5.3.2 Groundwater Quality Assessment

Groundwater analytical reports provided by the mobile laboratory during the initial stage of the DPT investigation are included in Appendix I. Validated fixed-base laboratory reports listing groundwater analytical results obtained during Phase I (i.e., DPT) sampling activities are provided in Appendix J.

5.3.2.1 DPT Groundwater Grab Sampling Results (Phase I)

Phase I RI DPT groundwater grab sampling locations and depths are shown on Figure 4-1. A reference list showing analyses performed during Phase I and type of laboratory (mobile or fixed-base) performing the analysis is provided in Appendix D, Table D-1.

During the period that the mobile laboratory was under contract (June 25 through July 6, 2001), “grab” samples were collected from the six existing monitoring wells around the DVECC tank and the existing microwell located southeast of the Pesticide Shop in addition to the samples collected from the DPT borings. Results of these analyses will be presented herein under the DPT grab sampling results discussion. Please refer to sections 4.2.1.3.2 and 4.2.1.3.3 for a breakdown of laboratory analyses performed on groundwater samples during the two stages of the Phase I RI field investigation.

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB081 JAX47-SB081-02-120106 20061201 MG/KG	JAX47-SB081 JAX47-SB081-02-120106-SPLP 20061201 UG/L	JAX47-SB081 JAX47-SB081-05-120106 20061201 MG/KG	JAX47-SB081 JAX47-SB081-05-120106-SPLP 20061201 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.00042 UJ	0.164 [G]	0.00037 UJ	0.105 [G]
4,4'-DDE	2.9	15	18	0.1	0.0023 J	0.008 J	0.00041 UJ	0.005 J
4,4'-DDT	2.9	15	11	0.1	0.0011 U	0.109 [G]	0.00066 U	0.029 J
ALDRIN	0.06	0.3	0.2	0.002	0.00028 UJ	0.002 U	0.00025 UJ	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00019 UJ	0.001 U	0.00016 UJ	0.001 U
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.00056 J	0.029 J	0.00033 UJ	0.022 J
BETA-BHC	0.5	2.4	0.001	0.02	0.00046 UJ	0.01 J	0.00041 UJ	0.242 [G]
DELTA-BHC	24	490	0.2	2.1	0.00023 UJ	0.001 U	0.0002 UJ	0.063
DIELDRIN	0.06	0.3	0.002	0.002	0.00033 UJ	0.01 J [G]	0.00029 UJ	0.017 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00037 UJ	0.002 U	0.00033 UJ	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.00033 UJ	0.002 U	0.00029 UJ	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.00037 UJ	0.002 U	0.00033 UJ	0.002 U
ENDRIN	25	510	1	2	0.00051 UJ	0.002 U	0.00045 UJ	0.002 U
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00023 UJ	0.009 U	0.0002 UJ	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.00042 UJ	0.003 U	0.00037 UJ	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.00023 UJ	0.002 U	0.0002 UJ	0.002 U
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.0007 J	0.015 J	0.00029 UJ	0.01 J
HEPTACHLOR	0.2	1	23	0.4	0.00033 UJ	0.001 U	0.00029 UJ	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.00079 UJ	0.001 U	0.0007 UJ	0.002 J
METHOXYCHLOR	420	8800	160	40	0.00046 UJ	0.003 U	0.00041 UJ	0.003 U
TOXAPHENE	0.9	4.5	31	3	0.0023 UJ	0.05 U	0.002 UJ	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	0.6 U	4 U	0.5 U	6

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB082 JAX47-SB082-02-120106 20061201 MG/KG	JAX47-SB082 JAX47-SB082-02-120106-SPLP 20061201 UG/L	JAX47-SB082 JAX47-SB082-05-120106 20061201 MG/KG	JAX47-SB082 JAX47-SB082-05-120106-SPLP 20061201 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.00032 U	0.008 J	0.0004 UJ	0.022 J
4,4'-DDE	2.9	15	18	0.1	0.0081	0.013 J	0.00045 UJ	0.002 U
4,4'-DDT	2.9	15	11	0.1	0.0041 J	0.011 J	0.00018 UJ	0.013 J
ALDRIN	0.06	0.3	0.2	0.002	0.00022 U	0.002 U	0.00027 UJ	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00014 U	0.001 UJ	0.00018 UJ	0.001 U
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.12	0.945 J	0.00036 J	0.013 J
BETA-BHC	0.5	2.4	0.001	0.02	0.00036 U	0.002 UJ	0.00045 UJ	0.023 J [G]
DELTA-BHC	24	490	0.2	2.1	0.00018 U	0.001 UJ	0.00022 UJ	0.007 J
DIELDRIN	0.06	0.3	0.002	0.002	0.028 [L]	0.437 [G]	0.00031 UJ	0.004 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00029 U	0.002 U	0.00036 UJ	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.00025 U	0.006 J	0.00031 UJ	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.00033 J	0.002 UJ	0.00036 UJ	0.002 U
ENDRIN	25	510	1	2	0.0004 U	0.014 J	0.00049 UJ	0.002 U
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00018 U	0.009 UJ	0.00022 UJ	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.00032 UJ	0.003 U	0.0004 UJ	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.00018 U	0.002 UJ	0.00022 UJ	0.002 U
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.14	0.706	0.00032 J	0.008 J
HEPTACHLOR	0.2	1	23	0.4	0.00025 U	0.001 U	0.00031 UJ	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.0033 J	0.021 J	0.00076 UJ	0.005 J
METHOXYCHLOR	420	8800	160	40	0.00036 U	0.003 U	0.00045 UJ	0.003 U
TOXAPHENE	0.9	4.5	31	3	0.0018 U	0.05 U	0.0022 UJ	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	0.4 U	5	1.7	12 [G]

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 3 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB083 JAX47-SB083-01-120106 20061201 MG/KG	JAX47-SB083 JAX47-SB083-01-120106-SPLP 20061201 UG/L	JAX47-SB083 JAX47-SB083-05-120106 20061201 MG/KG	JAX47-SB083 JAX47-SB083-05-120106-SPLP 20061201 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.055 J	0.051	0.0039 J	0.036 J
4,4'-DDE	2.9	15	18	0.1	0.13	0.051	0.0077	0.008 J
4,4'-DDT	2.9	15	11	0.1	1.2	0.058	0.025	0.026 J
ALDRIN	0.06	0.3	0.2	0.002	0.00021 U	0.002 U	0.00021 U	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00014 U	0.001 U	0.00014 U	0.001 U
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.21	0.489	0.011	0.166 J
BETA-BHC	0.5	2.4	0.001	0.02	0.0014 J [L]	0.025 J [G]	0.00071 J	0.029 J [G]
DELTA-BHC	24	490	0.2	2.1	0.00018 U	0.001 U	0.00018 U	0.004 J
DIELDRIN	0.06	0.3	0.002	0.002	0.011 J [L]	0.053 J [G]	0.00081 J	0.017 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.0072	0.002 U	0.00032 J	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.00025 U	0.002 U	0.00025 U	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.0005 J	0.002 U	0.00028 U	0.002 U
ENDRIN	25	510	1	2	0.00039 U	0.015 J	0.00039 U	0.002 U
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00018 UJ	0.009 U	0.00057 J	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.00032 U	0.003 U	0.00071 UJ	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.00018 U	0.002 U	0.00018 U	0.002 U
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.3	0.526	0.014	0.089
HEPTACHLOR	0.2	1	23	0.4	0.00096 J	0.002 J	0.00025 U	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.015 J	0.014 J	0.0006 U	0.005 J
METHOXYCHLOR	420	8800	160	40	0.00035 U	0.003 U	0.0011 J	0.003 U
TOXAPHENE	0.9	4.5	31	3	0.0018 U	0.05 U	0.0018 U	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	0.5 U	4 U	0.9 U	4 U

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 4 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB089 JAX47-SB089-02-113006 20061130 MG/KG	JAX47-SB089 JAX47-SB089-02-113006-SPLP 20061130 UG/L	JAX47-SB089 JAX47-SB089-05-113006 20061130 MG/KG	JAX47-SB089 JAX47-SB089-05-113006-SPLP 20061130 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.26 J	0.066 J	0.00031 UJ	2.88 [G]
4,4'-DDE	2.9	15	18	0.1	0.097 J	0.072	0.001 J	0.012 J
4,4'-DDT	2.9	15	11	0.1	5.5 J [R]	0.701 [G]	0.00084 U	0.009 J
ALDRIN	0.06	0.3	0.2	0.002	0.00021 UJ	0.002 U	0.00021 U	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00091 J [L]	0.003 J	0.0028 [L]	0.436 [G]
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.54 J	0.038 J	0.018 J	0.008 J
BETA-BHC	0.5	2.4	0.001	0.02	0.11 J [L]	1.31 J [G]	0.16 J [L]	0.054 [G]
DELTA-BHC	24	490	0.2	2.1	0.0015 J	0.009 J	0.23 J [L]	0.121
DIELDRIN	0.06	0.3	0.002	0.002	0.16 J [R,L]	0.489 [G]	0.00042 J	0.013 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00028 UJ	0.002 U	0.00028 U	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.014 J	0.002 U	0.00031 J	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.00095 J	0.002 U	0.00028 U	0.002 U
ENDRIN	25	510	1	2	0.00038 UJ	0.002 U	0.00038 U	0.002 U
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00017 UJ	0.009 U	0.00017 U	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.003 J	0.02 J	0.00091 J	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.003 J	0.009 J	0.0072 J	0.005 J
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.71 J	0.186 J	0.0064	0.003 J
HEPTACHLOR	0.2	1	23	0.4	0.015 J	0.021 J	0.00024 U	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.042 J	0.026 J	0.0011 J	0.006 J
METHOXYCHLOR	420	8800	160	40	0.00035 UJ	0.003 U	0.00035 U	0.003 U
TOXAPHENE	0.9	4.5	31	3	0.0017 UJ	0.05 U	0.0017 U	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	3.2 [R]	8	29.1 [R,I]	4 U

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB090 JAX47-SB090-03-120106 20061201 MG/KG	JAX47-SB090 JAX47-SB090-03-120106-SPLP 20061201 UG/L	JAX47-SB090 JAX47-SB090-06-120106 20061201 MG/KG	JAX47-SB090 JAX47-SB090-06-120106-SPLP 20061201 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.00032 U	0.037 J	0.0036	0.039 J
4,4'-DDE	2.9	15	18	0.1	0.0023	0.003 J	0.00035 U	0.003 J
4,4'-DDT	2.9	15	11	0.1	0.002 J	0.017 J	0.0006 U	0.017 J
ALDRIN	0.06	0.3	0.2	0.002	0.00021 U	0.002 U	0.00021 U	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00014 U	0.001 U	0.00014 U	0.001 U
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.00028 U	0.01 J	0.00053 J	0.02 J
BETA-BHC	0.5	2.4	0.001	0.02	0.00035 U	0.019 J	0.00085 J	0.029 J [G]
DELTA-BHC	24	490	0.2	2.1	0.00018 U	0.005 J	0.00018 U	0.003 J
DIELDRIN	0.06	0.3	0.002	0.002	0.00025 U	0.004 J [G]	0.00043 J	0.011 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00028 U	0.002 U	0.00028 U	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.00025 U	0.018 J	0.00025 U	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.00028 U	0.002 U	0.00028 U	0.002 U
ENDRIN	25	510	1	2	0.00039 U	0.002 U	0.00039 U	0.002 U
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00018 U	0.009 U	0.00018 U	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.00032 U	0.003 U	0.0006 J	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.00018 U	0.002 U	0.00018 U	0.002 U
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.00043 J	0.005 J	0.00025 U	0.044 J
HEPTACHLOR	0.2	1	23	0.4	0.00025 U	0.001 U	0.00025 UJ	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.0006 U	0.001 U	0.0006 U	0.004 J
METHOXYCHLOR	420	8800	160	40	0.00035 U	0.003 U	0.00035 UJ	0.003 U
TOXAPHENE	0.9	4.5	31	3	0.0018 U	0.05 U	0.0018 U	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	0.4 U	4 U	0.3 U	4 U

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 6 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB091 JAX47-SB091-01-120106 20061201 MG/KG	JAX47-SB091 JAX47-SB091-01-120106-SPLP 20061201 UG/L	JAX47-SB091 JAX47-SB091-04-120106 20061201 MG/KG	JAX47-SB091 JAX47-SB091-04-120106-SPLP 20061201 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.0019	0.023 J	0.014 J	0.057
4,4'-DDE	2.9	15	18	0.1	0.0052	0.007 J	0.083 J	0.023 J
4,4'-DDT	2.9	15	11	0.1	0.008	0.015 J	0.25 J	0.098
ALDRIN	0.06	0.3	0.2	0.002	0.00022 U	0.002 U	0.00026 UJ	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00015 U	0.001 U	0.0004 J [L]	0.013 J [G]
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.00059 J	0.031 J	0.0045 J	0.024 J
BETA-BHC	0.5	2.4	0.001	0.02	0.00037 J	0.002 UJ	0.24 J [L]	7.52 [G]
DELTA-BHC	24	490	0.2	2.1	0.00018 U	0.001 UJ	0.23 J [L]	3.84 [G]
DIELDRIN	0.06	0.3	0.002	0.002	0.00029 J	0.009 J [G]	0.039 J [L]	0.126 [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00029 U	0.002 U	0.00035 UJ	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.00025 U	0.002 U	0.00031 UJ	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.00029 U	0.002 U	0.00067 J	0.002 U
ENDRIN	25	510	1	2	0.0004 U	0.002 U	0.00049 UJ	0.002 U
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00029 J	0.009 U	0.00049 J	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.00033 U	0.003 U	0.0011 J	0.009 J
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.00018 U	0.002 U	0.00049 J	0.011 J
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.00077 J	0.016 J	0.0035 J	0.019 J
HEPTACHLOR	0.2	1	23	0.4	0.00025 U	0.001 U	0.00031 UJ	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.00062 U	0.001 U	0.0023 J	0.008 J
METHOXYCHLOR	420	8800	160	40	0.00036 U	0.003 U	0.00044 UJ	0.01 J
TOXAPHENE	0.9	4.5	31	3	0.0018 U	0.05 U	0.0022 UJ	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	0.6 U	4 U	2	6

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 7 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB091 JAX47-SB091-06-120106 20061201 MG/KG	JAX47-SB091 JAX47-SB091-06-120106-SPLP 20061201 UG/L	JAX47-SB093 JAX47-SB093-01-112906 20061129 MG/KG	JAX47-SB093 JAX47-SB093-01-112906-SPLP 20061129 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.00035 UJ	0.044 J	0.0096 J	0.061
4,4'-DDE	2.9	15	18	0.1	0.00067 J	0.003 J	0.55 J	0.028 J
4,4'-DDT	2.9	15	11	0.1	0.0013 J	0.021 J	0.36 J	0.033 J
ALDRIN	0.06	0.3	0.2	0.002	0.00024 UJ	0.002 U	0.0002 UJ	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00016 UJ	0.001 U	0.00013 UJ	0.001 U
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.00031 UJ	0.011 J	0.00027 U	0.017 J
BETA-BHC	0.5	2.4	0.001	0.02	0.0019 J [L]	0.089 [G]	0.0011 J [L]	0.002 U
DELTA-BHC	24	490	0.2	2.1	0.0013 J	0.026 J	0.00017 UJ	0.001 U
DIELDRIN	0.06	0.3	0.002	0.002	0.00048 J	0.017 J [G]	0.0011 J	0.009 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00031 UJ	0.002 U	0.00027 U	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.00027 UJ	0.002 U	0.00024 U	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.00031 UJ	0.002 U	0.011 J	0.002 U
ENDRIN	25	510	1	2	0.00043 UJ	0.002 U	0.00037 U	0.002 J
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.0002 UJ	0.009 U	0.00017 U	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.00035 UJ	0.003 U	0.0003 U	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.0002 UJ	0.002 U	0.00037 UJ	0.002 U
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.00027 UJ	0.005 J	0.0011 J	0.005 J
HEPTACHLOR	0.2	1	23	0.4	0.00027 UJ	0.001 U	0.00024 UJ	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.00067 UJ	0.001 U	0.0034 J	0.002 J
METHOXYCHLOR	420	8800	160	40	0.00039 UJ	0.003 U	0.0015 J	0.003 U
TOXAPHENE	0.9	4.5	31	3	0.002 UJ	0.05 U	0.0017 U	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	3.1 [R]	4 U	0.2	4 U

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB096 JAX47-SB096-01-113006 20061130 MG/KG	JAX47-SB096 JAX47-SB096-01-113006-SPLP 20061130 UG/L	JAX47-SB099 JAX47-SB099-01-113006 20061130 MG/KG	JAX47-SB099 JAX47-SB099-01-113006-SPLP 20061130 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	17 J [R,L]	0.183 J [G]	0.28 J	0.008 J
4,4'-DDE	2.9	15	18	0.1	6.1 J [R]	0.435 [G]	2.2 J	0.114 [G]
4,4'-DDT	2.9	15	11	0.1	2700 J [R,I,L]	32.6 [G]	5.1 J [R]	0.179 [G]
ALDRIN	0.06	0.3	0.2	0.002	0.0002 UJ	0.002 U	0.00021 UJ	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.0037 J [L]	0.001 U	0.00018 J	0.001 U
ALPHA-CHLORDANE	2.8	14	9.6	NC	4.2 J [R]	1.61 J	0.61 J	0.214 J
BETA-BHC	0.5	2.4	0.001	0.02	0.024 J [L]	0.029 J [G]	0.0029 J [L]	0.002 U
DELTA-BHC	24	490	0.2	2.1	0.0087 J	0.001 U	0.00085 J	0.001 U
DIELDRIN	0.06	0.3	0.002	0.002	0.59 J [R,I,L]	0.211 [G]	0.32 J [R,I,L]	0.1 [G]
ENDOSULFAN I	450	7600	3.8	NC	0.15 J	0.002 U	0.00028 UJ	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.13 J	0.002 U	0.00025 UJ	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.057 J	0.007 J	0.028 J	0.002 U
ENDRIN	25	510	1	2	0.15 J	0.002 U	0.00039 UJ	0.002 U
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.13 J	0.009 U	0.00018 UJ	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.039 J	0.011 J	0.00032 UJ	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.0045 J	0.002 U	0.00053 J	0.002 U
GAMMA-CHLORDANE	2.8	14	9.6	NC	5.9 J [R]	0.779	0.54 J	0.037 J
HEPTACHLOR	0.2	1	23	0.4	3.4 J [R,I]	0.036 J	0.00085 J	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.74 J [R,I,L]	0.02 J	0.13 J [R]	0.033 J
METHOXYCHLOR	420	8800	160	40	0.21 J	0.003 U	0.03 J	0.003 U
TOXAPHENE	0.9	4.5	31	3	0.0017 UJ	0.05 U	0.0018 UJ	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	5.1 [R]	5	2.6 [R]	5

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 9 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB100 JAX47-SB100-01-113006 20061130 MG/KG	JAX47-SB100 JAX47-SB100-01-113006-SPLP 20061130 UG/L	JAX47-SB104 JAX47-SB104-01-112906 20061129 MG/KG	JAX47-SB104 JAX47-SB104-01-112906-SPLP 20061129 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.46 J	0.195 [G]	0.0025	0.092
4,4'-DDE	2.9	15	18	0.1	0.53	0.084	0.013	0.004 J
4,4'-DDT	2.9	15	11	0.1	1.3 J	0.129 J [G]	0.084 J	0.026 J
ALDRIN	0.06	0.3	0.2	0.002	0.00031 J	0.002 U	0.00022 U	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.002 J [L]	0.006 J	0.00015 U	0.001 U
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.00049 J	0.048 J	0.00033 J	0.019 J
BETA-BHC	0.5	2.4	0.001	0.02	0.0035 J [L]	0.014 J	0.00037 U	0.002 U
DELTA-BHC	24	490	0.2	2.1	0.0037 J	0.013 J	0.00018 U	0.001 U
DIELDRIN	0.06	0.3	0.002	0.002	0.053 J [L]	0.058 [G]	0.00026 U	0.013 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00028 UJ	0.002 U	0.00029 U	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.00024 UJ	0.003 J	0.00026 U	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.0022 J	0.002 U	0.00029 U	0.002 U
ENDRIN	25	510	1	2	0.0099 J	0.002 U	0.0004 U	0.002 U
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00017 UJ	0.009 U	0.00018 U	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.00031 UJ	0.003 U	0.00033 U	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.0011 J	0.002 U	0.00018 U	0.002 U
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.12 J	0.043 J	0.00045 J	0.006 J
HEPTACHLOR	0.2	1	23	0.4	0.00024 UJ	0.001 U	0.00026 U	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.024 J	0.006 J	0.00062 U	0.001 U
METHOXYCHLOR	420	8800	160	40	0.038 J	0.043 J	0.00037 U	0.003 U
TOXAPHENE	0.9	4.5	31	3	0.0017 UJ	0.05 U	0.0018 U	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	3.8 [R]	8	1.1 U	4 U

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 10 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB105 JAX47-SB105-01-113006 20061130 MG/KG	JAX47-SB105 JAX47-SB105-01-113006-SPLP 20061130 UG/L	JAX47-SB106 JAX47-SB106-01-113006 20061130 MG/KG	JAX47-SB106 JAX47-SB106-01-113006-SPLP 20061130 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.3 J	0.057	0.82 J	0.114 J [G]
4,4'-DDE	2.9	15	18	0.1	1.4	0.092	1.6 J	0.188 [G]
4,4'-DDT	2.9	15	11	0.1	4.4 J [R]	0.15 [G]	27 J [R,I,L]	0.503 [G]
ALDRIN	0.06	0.3	0.2	0.002	0.00021 U	0.002 U	0.0017 J	0.002 U
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00056 J [L]	0.001 U	0.003 J [L]	0.001 U
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.52 J	0.112 J	1.7	0.127
BETA-BHC	0.5	2.4	0.001	0.02	0.011 J [L]	0.002 U	0.027 J [L]	0.004 J
DELTA-BHC	24	490	0.2	2.1	0.00094 J	0.001 U	0.0015 J	0.001 U
DIELDRIN	0.06	0.3	0.002	0.002	0.4 [R,I,L]	0.178 [G]	3.4 [R,I,L]	0.417 [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00028 U	0.002 U	0.00027 U	0.002 U
ENDOSULFAN II	450	7600	3.8	NC	0.00024 U	0.003 UJ	0.00024 U	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.027 J	0.002 U	0.0077 J	0.002 U
ENDRIN	25	510	1	2	0.023 J	0.005 J	0.2	0.015 J
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00017 UJ	0.009 U	0.00017 UJ	0.009 U
ENDRIN KETONE	NC	NC	NC	NC	0.0082 J	0.003 U	0.0013 J	0.006 J
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.0008 J	0.002 U	0.0024	0.002 U
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.4	0.087	1.3	0.093
HEPTACHLOR	0.2	1	23	0.4	0.012 J	0.005 J	0.0029 J	0.001 U
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.098 J	0.134	0.17 [R]	0.013 J
METHOXYCHLOR	420	8800	160	40	0.036 J	0.036 J	0.089 J	0.007 J
TOXAPHENE	0.9	4.5	31	3	0.0017 U	0.05 U	0.0017 U	0.05 U
Inorganics								
ARSENIC	2.1	12	NC	10	5.1 [R]	28 [G]	4.9 [R]	4

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 11 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB107 JAX47-SB107-01-113006 20061130 MG/KG	JAX47-SB107 JAX47-SB107-01-113006-SPLP 20061130 UG/L	JAX47-SB110 JAX47-SB110-01-113006 20061130 MG/KG	JAX47-SB110 JAX47-SB110-01-113006-SPLP 20061130 UG/L
Pesticides/PCBs								
4,4'-DDD	4.2	22	5.8	0.1	0.06 J	0.051	0.065 J	0.02 J
4,4'-DDE	2.9	15	18	0.1	0.67	0.046 J	1.3 J	0.282 J [G]
4,4'-DDT	2.9	15	11	0.1	1.4 J	0.083	1.4 J	0.005 J
ALDRIN	0.06	0.3	0.2	0.002	0.0002 U	0.002 U	0.0002 UJ	0.002 UJ
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00041 J [L]	0.001 U	0.00027 J	0.001 UJ
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.75 J	0.103	0.23 J	0.074 J
BETA-BHC	0.5	2.4	0.001	0.02	0.0026 [L]	0.002 U	0.0017 J [L]	0.018 J
DELTA-BHC	24	490	0.2	2.1	0.00041 J	0.001 U	0.00058 J	0.001 UJ
DIELDRIN	0.06	0.3	0.002	0.002	0.82 [R,I,L]	0.626 [G]	0.16 J [R,L]	0.139 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00027 U	0.002 U	0.00027 UJ	0.002 UJ
ENDOSULFAN II	450	7600	3.8	NC	0.0033 J	0.002 U	0.00024 UJ	0.002 UJ
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.0036 J	0.002 U	0.01 J	0.002 UJ
ENDRIN	25	510	1	2	0.052	0.016 J	0.046 J	0.018 J
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00017 UJ	0.009 U	0.013 J	0.009 UJ
ENDRIN KETONE	NC	NC	NC	NC	0.0014 J	0.01 J	0.0097 J	0.014 J
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.0013 J	0.002 U	0.00096 J	0.002 UJ
GAMMA-CHLORDANE	2.8	14	9.6	NC	0.5	0.05	0.22 J	0.007 J
HEPTACHLOR	0.2	1	23	0.4	0.0021	0.001 U	0.00041 J	0.001 UJ
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.082 J	0.081	0.034 J	0.023 J
METHOXYCHLOR	420	8800	160	40	0.025 J	0.036 J	0.012 J	0.02 J
TOXAPHENE	0.9	4.5	31	3	0.0017 U	0.05 U	0.0017 UJ	0.05 UJ
Inorganics								
ARSENIC	2.1	12	NC	10	0.9	4 U	0.7 U	7

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

Table 5-3
Soil SPLP Data

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 12 of 12

LOCATION SAMPLE ID SAMPLE DATE UNITS	RESIDENTIAL MG/KG	INDUSTRIAL MG/KG	LEACHABILITY MG/KG	GCTL UG/L	JAX47-SB110 JAX47-SB110-05-113006 20061130 MG/KG	JAX47-SB110 JAX47-SB110-05-113006-SPLP 20061130 UG/L
Pesticides/PCBs						
4,4'-DDD	4.2	22	5.8	0.1	55 J [R,I,L]	36.9 J [G]
4,4'-DDE	2.9	15	18	0.1	2.3 J	1.33 [G]
4,4'-DDT	2.9	15	11	0.1	59 J [R,I,L]	36.7 J [G]
ALDRIN	0.06	0.3	0.2	0.002	0.00022 UJ	0.029 J [G]
ALPHA-BHC	0.1	0.6	0.0003	0.006	0.00015 UJ	0.001 UJ
ALPHA-CHLORDANE	2.8	14	9.6	NC	0.56 J	2 J
BETA-BHC	0.5	2.4	0.001	0.02	0.003 J [L]	0.042 J [G]
DELTA-BHC	24	490	0.2	2.1	0.0023 J	0.001 UJ
DIELDRIN	0.06	0.3	0.002	0.002	0.00026 UJ	0.096 J [G]
ENDOSULFAN I	450	7600	3.8	NC	0.00029 UJ	0.04 J
ENDOSULFAN II	450	7600	3.8	NC	0.01 J	0.002 U
ENDOSULFAN SULFATE	450	7600	3.8	NC	0.0072 J	0.012 J
ENDRIN	25	510	1	2	0.049 J	0.053 J
ENDRIN ALDEHYDE	NC	NC	NC	NC	0.00018 UJ	0.009 UJ
ENDRIN KETONE	NC	NC	NC	NC	0.00033 UJ	0.003 U
GAMMA-BHC (LINDANE)	0.7	2.5	0.009	0.2	0.00018 UJ	0.002 UJ
GAMMA-CHLORDANE	2.8	14	9.6	NC	1 J	1.14
HEPTACHLOR	0.2	1	23	0.4	0.19 J	0.129
HEPTACHLOR EPOXIDE	0.1	0.5	0.6	0.2	0.28 J [R]	0.177 J
METHOXYCHLOR	420	8800	160	40	0.00037 UJ	0.066 J
TOXAPHENE	0.9	4.5	31	3	0.0018 UJ	0.05 U
Inorganics						
ARSENIC	2.1	12	NC	10	0.8 U	11 [G]

Notes:
Concentrations in bold exceed Florida GCTL
GCTL = Groundwater Cleanup Target Levels (Chapter 62-777 F.A.C.)

R - Residential
I - Industrial
L - Leachability
G - GCTL
PCB - Polychlorinated biphenyl
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
U - less than laboratory method detection limit
J - estimated
NC - No criteria

5.3.2.1.1 TCL Pesticides

TCL pesticide concentrations reported by both laboratories (mobile and fixed laboratories) during the Phase I RI investigation are provided in Table 5-4. Values exceeding 2004 FDEP GCTLs are illustrated in Figures 5-7 (mobile laboratory) and 5-8 (fixed-base laboratory). Fourteen (14) TCL pesticide compounds were identified at concentrations exceeding GCTLs. The most frequently reported compounds were 4,4'-DDD and 4,4'-DDT with 35 and 21 exceedances, respectively. BHC isomers were the next most frequently reported constituents. Alpha- and beta-BHC concentrations exceeded GCTLs in 15 samples, followed by gamma-BHC (12 exceedances) and delta-BHC (9 exceedances). 4,4'-DDD and/or 4,4'-DDT were identified in all areas sampled south of the Pesticide Shop and BHC isomers were detected in most locations sampled except in the drainage ditch along Child Street. Aldrin was reported at concentrations exceeding its GCTL of 0.005 µg/L in eight samples, all in the vicinity of the DVECC tank, and all reported by the mobile laboratory.

Highest concentrations of the most frequently reported compounds occurred in the area south of the Pesticide Shop. Highest concentrations of all BHC isomers were reported in the shallow sample (8-12 ft bls) at SB32 and highest 4,4'-DDD and 4,4'-DDT concentrations were reported in the old HLA microwell (JAX-947-536-MW03) located southeast of the Pesticide Shop. Highest reported concentrations of the frequently-occurring compounds were as follows: 4,4'-DDD (210 µg/L), 4,4'-DDT (22 µg/L), alpha-BHC (140 µg/L), beta-BHC (19.2 µg/L), gamma-BHC (240 µg/L), delta-BHC (120 µg/L), and aldrin (15 µg/L). The GCTLs for these compounds are all less than or equal to 0.1 µg/L, except for delta-BHC, which has a GCTL of 2.1 µg/L.

In most but not all cases, the greatest number of exceedances and highest concentrations occurred in shallow samples and concentrations progressively decreased with depth. Aside from the area south of the Pesticide Shop, the vicinity surrounding the removed DVECC tank had the highest frequency of pesticide exceedances, although concentrations were not as high. Other TCL pesticide constituents reported at concentrations exceeding GCTLs, but at lesser frequencies than those listed above, included 4,4'-DDE and heptachlor (3 exceedances), gamma-chlordane and endrin (2), alpha-chlordane, heptachlor epoxide, and dieldrin (1).

Pesticide compounds were identified at concentrations exceeding GCTLs at two outlying locations, seemingly out of the projected downgradient flowpaths of the two primary suspected source areas (DVECC tank and Pesticide Shop). One of the outlying areas is centered on DPT borings SB37, SB38, and SB58 (see Figure 5-8), located upgradient (south) of the former DVECC tank location. Highest pesticide concentrations in this area were identified in samples collected from SB38, located approximately 100 ft southeast of the former DVECC source area. 4,4'-DDD and 4,4'-DDT were reported at concentrations exceeding the GCTL of 0.1 µg/L at all three sampling depths (8-12 ft bls, 22-26 ft bls,

Table 5-4
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 17

Boring JAX47-	FDEP	REGION 9	SB01			SB02			SB03		
Sample ID	GCTLs	PRGs	G-8	G-26	G-40	G-8	G-22	G-36	G-6	G-8	G-22
Collection Date	(µg/L)		6/30/2001	6/30/2001	6/30/2001	6/29/2001	6/29/2001	6/29/2001	6/29/2001	7/5/2001	6/29/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	**1**	1 U	1 U	1 U	1 U	1 U	1 U	0.026 J	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.015 J	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Delta-BHC	2.1	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U
Endrin	2	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.50 U	1 U
Toxaphene	3	0.061								1.0 U	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP GCTLs (µg/L)	REGION 9 PRGs	SB03	SB04			SB05				
Sample ID			G-36	G-8	G-22	G-36	G-5	G-5	G-18	G-20	G-28
Collection Date			6/29/2001	6/29/2001	6/29/2001	6/29/2001	7/2/2001	7/6/2001	7/2/2001	12/19/2001	7/2/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	1 U	1 U	1 U	**1.2**	**0.24**	1 U	NA	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U	NA	1 U
4,4'-DDT	0.1	0.2	1 U	**1.2**	1 U	1 U	1 U	0.047 J	1 U	NA	1 U
Aldrin	0.005	0.004	1 U	**16**	**5.9**	1 U	1 U	0.050 U	1 U	NA	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	1 U	1 U	0.027 J	1 U	NA	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U	NA	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U	NA	1 U
Delta-BHC	2.1	0.011	1 U	**2.1**	1 U	1 U	1 U	0.050 U	1 U	NA	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U	NA	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U	NA	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U	NA	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U	NA	1 U
Endrin	2	11	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U	NA	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U	NA	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	0.10 U	1 U	NA	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	**1**	1 U	1 U	1 U	0.022 J	1 U	NA	1 U
Gamma-Chlordane	2	0.19	1 U	1.9	1.4	1 U	1 U	0.050 U	1 U	NA	1 U
Heptachlor	0.4	0.015	1 U	**1**	**2**	1 U	1 U	0.050 U	1 U	NA	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	0.050 U	1 U	NA	1 U
Methoxychlor	40	180	1 U	1.3	1 U	1 U	1 U	0.50 U	1 U	NA	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 3 of 17

Boring JAX47-	FDEP	REGION 9	SB06					SB07			
Sample ID	GCTLs	PRGs	G-10	G-16	G-20	G-28	G-36	G-8	G-20	G-20	G-36
Collection Date	(µg/L)		7/6/2001	12/19/2001	7/2/2001	12/19/2001	7/2/2001	6/30/2001	6/30/2001	7/5/2001	6/30/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1.1 U	NA	1 U	NA	1 U	1 U	**2.6**	0.052 J	**1**
4,4'-DDE	0.1	0.2	1.1 U	NA	1 U	NA	1 U	1 U	1 U	0.017 J	1 U
4,4'-DDT	0.1	0.2	**0.38 J**	NA	1 U	NA	1 U	1 U	1 U	0.017 J	1 U
Aldrin	0.005	0.004	0.54 U	NA	**6.9**	NA	**1.6**	1 U	1 U	0.050 U	1 U
Alpha-BHC	0.006	0.011	0.54 U	NA	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Alpha-Chlordane	2	0.19	0.54 U	NA	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Beta-BHC	0.02	0.037	0.54 U	NA	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Delta-BHC	2.1	0.011	0.54 U	NA	1.1	NA	1 U	1 U	1 U	0.050 U	1 U
Dieldrin	0.005	0.0042	1.1 U	NA	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Endosulfan I	42	220	0.54 U	NA	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Endosulfan II	42	220	1.1 U	NA	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Endosulfan Sulfate	NL	220	1.1 U	NA	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Endrin	2	11	1.1 U	NA	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Endrin Aldehyde	NL	11	1.1 U	NA	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Endrin Ketone	NL	11	1.1 U	NA	1.9	NA	1 U	1 U	1 U	0.10 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	**0.41 J**	NA	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Gamma-Chlordane	2	0.19	0.54 U	NA	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Heptachlor	0.4	0.015	0.54 U	NA	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Heptachlor Epoxide	0.2	0.0074	0.54 U	NA	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Methoxychlor	40	180	5.4 U	NA	1 U	NA	1 U	1 U	1 U	0.50 U	1 U
Toxaphene	3	0.061	11 U	NA	NA	NA	NA	NA	NA	1.0 U	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP	REGION 9	SB08			SB09			SB10		
Sample ID	GCTLs	PRGs	G-8	G-20	G-36	G-8	G-16	G-28	G-8	G-20	G-36
Collection Date	(µg/L)		6/30/2001	6/30/2001	6/30/2001	6/29/2001	6/29/2001	6/29/2001	6/30/2001	6/30/2001	6/30/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Delta-BHC	2.1	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin	2	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP GCTLs (µg/L)	REGION 9 PRGs	SB11			SB12			SB13		
Sample ID			G-8	G-28	G-36	G-8	G-20	G-30	G-8	G-8	G-20
Collection Date			6/30/2001	6/30/2001	6/30/2001	6/26/2001	6/29/2001	6/29/2001	6/30/2001	7/6/2001	6/30/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	1 U	1 U	1 U	1 U	1 U	**1.1**	**160**	**2.4**
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11 U	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	**5.3**	11 U	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	1 U	1 U	1 U	**13.1**	5.5 U	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	1 U	1 U	**1.5**	**1.6**	5.5 U	1 U
Delta-BHC	2.1	0.011	1 U	1 U	1 U	1 U	1 U	1 U	**9.6**	5.5 U	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11 U	1 U
Endrin	2	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11 U	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11 U	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	1 U	1 U	1 U	**24.4**	5.5 U	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	55 U	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	NA	NA	110 U	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP GCTLs (µg/L)	REGION 9 PRGs	SB13	SB14			SB15			SB16	
Sample ID			G-36	G-8	G-18	G-28	G-8	G-16	G-32	G-8	G-20
Collection Date			6/30/2001	6/29/2001	6/29/2001	6/29/2001	6/29/2001	6/29/2001	6/29/2001	6/25/2001	6/25/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	**1.4**	1 U	1 U	1 U	1 U	1 U	1 U	**1.6**	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.1**	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Delta-BHC	2.1	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin	2	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.9	5.6
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 7 of 17

Boring JAX47-	FDEP GCTLs (µg/L)	REGION 9 PRGs	SB16	SB17			SB18				SB19
Sample ID			G-32	G-8	G-20	G-32[1]	G-8	G-20	G-32	G-32	G-8
Collection Date			6/25/2001	6/25/2001	6/25/2001	6/25/2001	6/25/2001	6/25/2001	6/25/2001	7/6/2001	7/2/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	1 U	1 U	NA	1 U	1 U	1 U	**1.1**	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	NA	1 U	1 U	1 U	**0.10**	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	NA	**1.4**	1 U	1 U	**0.39**	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	NA	**3.2**	1 U	1 U	**0.025 J**	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.026 J	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	NA	**1.6**	1 U	**2.2**	0.080	1 U
Delta-BHC	2.1	0.011	1 U	1 U	1 U	NA	**3.6**	1 U	1 U	0.061 J	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	NA	1 U	1 U	1 U	**0.021 J**	1 U
Endosulfan I	42	220	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Endrin	2	11	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Endrin Aldehyde	NL	11	4.9	4.8	5.3	NA	4.5	6	5.6	0.10 U	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.10 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	NA	**3.6**	1 U	1 U	0.024 J	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.050 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.017 J	1 U
Methoxychlor	40	180	1 U	1 U	1 U	NA	1 U	1 U	1 U	0.50 U	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP	REGION 9	SB19		SB20			SB21			SB22
Sample ID	GCTLs	PRGs	G-20	G-36	G-7	G-17	G-27	G-8	G-32	G-44	G-8
Collection Date	(µg/L)		7/2/2001	7/2/2001	6/28/2001	6/28/2001	6/28/2001	6/26/2001	7/1/2001	7/1/2001	6/26/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	1 U	1 U	1 U	**1.1**	1 U	**2.7**
Delta-BHC	2.1	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin	2	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP GCTLs (µg/L)	REGION 9 PRGs	SB22		SB23			SB24			SB25
Sample ID			G-26	G-44	G-8	G-26	G-44	G-8	G-26	G-44	G-8
Collection Date			6/26/2001	6/26/2001	6/26/2001	6/27/2001	6/27/2001	6/26/2001	6/27/2001	6/27/2001	6/28/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Delta-BHC	2.1	0.011	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin	2	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP GCTLs (µg/L)	REGION 9 PRGs	SB25		SB26			SB27			SB28
Sample ID			G-18	G-28	G-8	G-22	G-35	G-10	G-26	G-44	G-8
Collection Date			6/28/2001	6/28/2001	6/27/2001	6/27/2001	6/27/2001	6/28/2001	6/28/2001	6/28/2001	6/30/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**18**
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.5**
Delta-BHC	2.1	0.011	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**17**
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin	2	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**29**
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 11 of 17

Boring JAX47-	FDEP	REGION 9	SB28			SB29			SB30		
Sample ID	GCTLs	PRGs	G-10	G-20	G-32	G-8	G-26	G-44	G-8	G-26	G-44
Collection Date	(µg/L)		7/6/2001	6/30/2001	6/30/2001	6/26/2001	6/27/2001	6/27/2001	6/26/2001	6/27/2001	6/27/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	**0.46**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDE	0.1	0.2	0.094 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,4'-DDT	0.1	0.2	0.057 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aldrin	0.005	0.004	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-BHC	0.006	0.011	**0.26**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Alpha-Chlordane	2	0.19	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beta-BHC	0.02	0.037	**0.12**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Delta-BHC	2.1	0.011	0.43 J	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U
Dieldrin	0.005	0.0042	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan I	42	220	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan II	42	220	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endosulfan Sulfate	NL	220	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin	2	11	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Aldehyde	NL	11	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Endrin Ketone	NL	11	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	0.16	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Gamma-Chlordane	2	0.19	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor	0.4	0.015	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	0.021 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methoxychlor	40	180	0.50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toxaphene	3	0.061	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP GCTLs (µg/L)	REGION 9 PRGs	SB31			SB32				SB33	
Sample ID			G-8	G-20	G-36	G-8	G-20	G-36	G-36	G-8	G-18
Collection Date			6/30/2001	6/30/2001	6/30/2001	7/1/2001	7/1/2001	7/1/2001	7/6/2001	7/2/2001	7/2/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	1 U	1 U	**19.7**	**12**	**12.6**	**31**	1 U	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1 U	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U	**3.7**	**2.1**	**1.6**	**8.9**	1 U	1 U
Aldrin	0.005	0.004	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U	**140**	**20**	**12.8**	**1.0 J**	1 U	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U	**19.2**	**2.3**	**1.2**	2.5 U	1 U	1 U
Delta-BHC	2.1	0.011	1 U	1 U	1 U	**120**	**10**	**8.2**	1.1 J	1 U	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1 U	1 U
Endrin	2	11	1 U	1 U	1 U	**5.2**	1 U	1 U	5.0 U	1 U	1 U
Endrin Aldehyde	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1 U	1 U
Endrin Ketone	NL	11	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1 U	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U	**240**	**23**	**12.2**	**0.79 J**	1 U	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U
Toxaphene	3	0.061	NA	NA	NA	NA	NA	NA	50 U	NA	NA

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 13 of 17

Boring JAX47-	FDEP	REGION 9	SB33		SB34			SB35			SB36
Sample ID	GCTLs	PRGs	G-28	G-28	G-8	G-20	G-32	G-8	G-20	G-36	G-8
Collection Date	(µg/L)		7/2/2001	7/6/2002	7/2/2001	7/2/2001	7/2/2001	7/2/2001	7/2/2001	7/2/2001	12/20/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	1 U	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U
4,4'-DDE	0.1	0.2	1 U	0.032 J	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U
4,4'-DDT	0.1	0.2	1 U	0.016 J	1 U	1 U	1 U	1 U	1 U	1 U	**0.28 J**
Aldrin	0.005	0.004	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	0.50 U
Alpha-BHC	0.006	0.011	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	**4.0**
Alpha-Chlordane	2	0.19	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	0.50 U
Beta-BHC	0.02	0.037	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	**3.5**
Delta-BHC	2.1	0.011	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	**8.1**
Dieldrin	0.005	0.0042	1 U	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U
Endosulfan I	42	220	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	0.50 U
Endosulfan II	42	220	1 U	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U
Endosulfan Sulfate	NL	220	1 U	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U
Endrin	2	11	1 U	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U
Endrin Aldehyde	NL	11	1 U	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U
Endrin Ketone	NL	11	1 U	0.10 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	0.021 J	1 U	1 U	1 U	1 U	1 U	1 U	**5.6**
Gamma-Chlordane	2	0.19	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	0.50 U
Heptachlor	0.4	0.015	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	0.50 U
Heptachlor Epoxide	0.2	0.0074	1 U	0.050 U	1 U	1 U	1 U	1 U	1 U	1 U	0.50 U
Methoxychlor	40	180	1 U	0.50 U	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U
Toxaphene	3	0.061	NA	1.0 U	NA	NA	NA	NA	NA	NA	10 U

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 14 of 17

Boring JAX47-	FDEP	REGION 9	SB36		SB37			SB38			SB39
Sample ID	GCTLs	PRGs	G-20	G-36	G-8	G-22	G-36	G-8	G-22	G-36	G-20
Collection Date	(µg/L)		12/20/2001	12/20/2001	12/20/2001	7/5/2001	12/20/2001	7/5/2001	7/5/2001	12/18/2001	7/5/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	**0.61**	**0.16**	**0.30**	0.10 U	**0.11 J**	**47**	**83**	**0.19**	**0.16**
4,4'-DDE	0.1	0.2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	9.6 U	**1.6 J**	0.023 J	0.10 U
4,4'-DDT	0.1	0.2	0.041 J	0.10 U	0.095 J	**0.12**	0.025 J	**14**	**44**	**0.10 J**	0.041 J
Aldrin	0.005	0.004	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	4.8 U	4.8 U	0.051 U	0.050 U
Alpha-BHC	0.006	0.011	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	4.8 U	4.8 U	0.051 U	0.050 U
Alpha-Chlordane	2	0.19	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	4.8 U	**4.8 J**	0.051 U	0.054
Beta-BHC	0.02	0.037	0.050 U	0.050 U	**0.19 J**	0.050 U	0.050 U	4.8 U	4.8 U	0.051 U	0.050 U
Delta-BHC	2.1	0.011	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	4.8 U	4.8 U	0.051 U	0.050 U
Dieldrin	0.005	0.0042	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	9.6 U	9.7 U	0.10 U	0.10 U
Endosulfan I	42	220	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	4.8 U	4.8 U	0.051 U	0.050 U
Endosulfan II	42	220	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	9.6 U	9.7 U	0.10 U	0.10 U
Endosulfan Sulfate	NL	220	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	7.3 J	42	0.10 U	0.10 U
Endrin	2	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	9.6 U	9.7 U	0.10 U	0.10 U
Endrin Aldehyde	NL	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	9.6 U	9.7 U	0.10 U	0.10 U
Endrin Ketone	NL	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	9.6 U	9.7 U	0.10 U	0.10 U
Gamma-BHC (Lindane)	0.2	0.052	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	4.8 U	4.8 U	0.051 U	0.050 U
Gamma-Chlordane	2	0.19	0.019 J	0.023 J	0.050 U	0.050 U	0.016 J	4.8 U	4.7 J	0.051 U	0.050 U
Heptachlor	0.4	0.015	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	4.8 U	4.8 U	0.051 U	0.026 J
Heptachlor Epoxide	0.2	0.0074	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	4.8 U	4.8 U	0.051 U	0.050 U
Methoxychlor	40	180	0.50 U	0.50 U	0.20 J	0.50 U	0.50 U	48 U	48 U	0.51 U	0.50 U
Toxaphene	3	0.061	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	96 U	97 U	1.0 U	1.0 U

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	FDEP GCTLs (µg/L)	REGION 9 PRGs	SB48	SB49	SB55	SB57			SB58		
Sample ID			G-8	G-8	G-15	G-8	G-20	G-36	G-8	G-20	G-37
Collection Date			12/18/2001	12/20/2001	12/20/2001	12/19/2001	12/19/2001	12/19/2001	12/20/2001	12/20/2001	12/20/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	**0.16**	**0.15**	**0.37**	**7.4**	**3.6**	**2.2**	**0.20**	0.037 J	0.10 U
4,4'-DDE	0.1	0.2	0.10 U	0.10 U	0.10 U	0.95 U	0.48 U	0.10 U	0.050 J	0.10 U	0.10 U
4,4'-DDT	0.1	0.2	**0.18**	0.030 J	0.056 J	**0.39 J**	**0.30 J**	**0.10 J**	0.090 J	0.034 J	0.10 U
Aldrin	0.005	0.004	0.050 U	0.050 U	0.050 U	0.48 U	0.24 U	0.050 U	0.050 U	0.050 U	0.050 U
Alpha-BHC	0.006	0.011	0.050 U	0.050 U	0.050 U	0.48 U	**0.12 J**	**0.025 J**	0.050 U	0.050 U	0.050 U
Alpha-Chlordane	2	0.19	0.050 U	0.050 U	0.050 U	0.48 U	0.24 U	0.050 U	0.050 U	0.050 U	0.050 U
Beta-BHC	0.02	0.037	0.050 U	0.050 U	0.050 U	0.48 U	0.24 U	0.050 U	0.050 U	0.050 U	0.050 U
Delta-BHC	2.1	0.011	0.050 U	0.050 U	0.050 U	0.48 U	0.16 J	0.034 J	0.050 U	0.050 U	0.050 U
Dieldrin	0.005	0.0042	0.10 U	0.10 U	0.10 U	0.95 U	0.48 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	42	220	0.050 U	0.050 U	0.050 U	0.48 U	0.24 U	0.050 U	0.050 U	0.074	0.044 J
Endosulfan II	42	220	0.10 U	0.10 U	0.10 U	0.95 U	0.48 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan Sulfate	NL	220	0.10 U	0.10 U	0.10 U	0.95 U	0.48 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	2	11	0.10 U	0.10 U	0.10 U	0.95 U	0.48 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Aldehyde	NL	11	0.10 U	0.10 U	0.10 U	0.95 U	0.48 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Ketone	NL	11	0.10 U	0.10 U	0.10 U	0.95 U	0.48 U	0.10 U	0.10 U	0.10 U	0.10 U
Gamma-BHC (Lindane)	0.2	0.052	0.050 U	0.050 U	0.050 U	0.48 U	0.24 U	0.050 U	0.050 U	0.050 U	0.050 U
Gamma-Chlordane	2	0.19	0.050 U	0.050 U	0.026 J	0.48 U	0.24 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	0.4	0.015	0.050 U	0.050 U	0.050 U	0.48 U	0.24 U	0.050 U	0.046 J	0.050 U	0.050 U
Heptachlor Epoxide	0.2	0.0074	0.050 U	0.050 U	0.050 U	0.48 U	0.24 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	40	180	0.50 U	0.50 U	0.50 U	0.16 J	2.4 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	3	0.061	1.0 U	1.0 U	1.0 U	9.5 U	4.8 U	1.0 U	1.0 U	1.0 U	1.0 U

See notes at end of table.

Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

									JAX47-937-		
Boring JAX47-	**FDEP**	**REGION 9**	**SB59**			**SB60**	**SB61**	**JAX47-536**	**MW01S**	**MW02S**	**MW03S**
Sample ID	**GCTLs**	**PRGs**	G-8	G-20	G-37	G-8	G-15	MW03	MW9371	MW9372	MW9373
Collection Date	**(µg/L)**		12/20/2001	12/20/2001	12/20/2001	12/20/2001	12/20/2001	6/25/2001	6/25/2001	6/25/2001	6/25/2001
Pesticides (µg/L)											
4,4'-DDD	0.1	0.28	0.10 U	0.10 U	0.10 U	**0.12**	**0.16**	**210**	1 U	1 U	**7.1**
4,4'-DDE	0.1	0.2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1 U	1 U	1 U	1 U
4,4'-DDT	0.1	0.2	0.10 U	0.10 U	0.10 U	0.10 U	0.034 J	**22**	1 U	**1**	**7.8**
Aldrin	0.005	0.004	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	1 U	**7.7**	**8.5**	1 U
Alpha-BHC	0.006	0.011	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	**8.4**	1 U	1 U	**1.3**
Alpha-Chlordane	2	0.19	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	1 U	1 U	1 U	1 U
Beta-BHC	0.02	0.037	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	**2.1**	1 U	1 U	1 U
Delta-BHC	2.1	0.011	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	**9.6**	1 U	1 U	1.2
Dieldrin	0.005	0.0042	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1 U	1 U	1 U	1 U
Endosulfan I	42	220	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	1	1 U	1 U	1 U
Endosulfan II	42	220	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.8	1 U	1 U	1 U
Endosulfan Sulfate	NL	220	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1 U	1 U	1 U	1 U
Endrin	2	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	**25**	1 U	1 U	1 U
Endrin Aldehyde	NL	11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	3	4.6	5.8	5.6
Endrin Ketone	NL	11	0.10 U	0.021 J	0.10 U	0.10 U	0.10 U	1 U	6.9	27.8	4
Gamma-BHC (Lindane)	0.2	0.052	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	**2.2**	1 U	1 U	**1.8**
Gamma-Chlordane	2	0.19	0.050 U	0.050 U	0.050 U	0.050 U	0.013 J	1.4	**5.8**	1 U	1 U
Heptachlor	0.4	0.015	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	1 U	1 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	1 U	1 U	1 U	1 U
Methoxychlor	40	180	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	1 U	1 U	1 U
Toxaphene	3	0.061	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA

See notes at end of table.

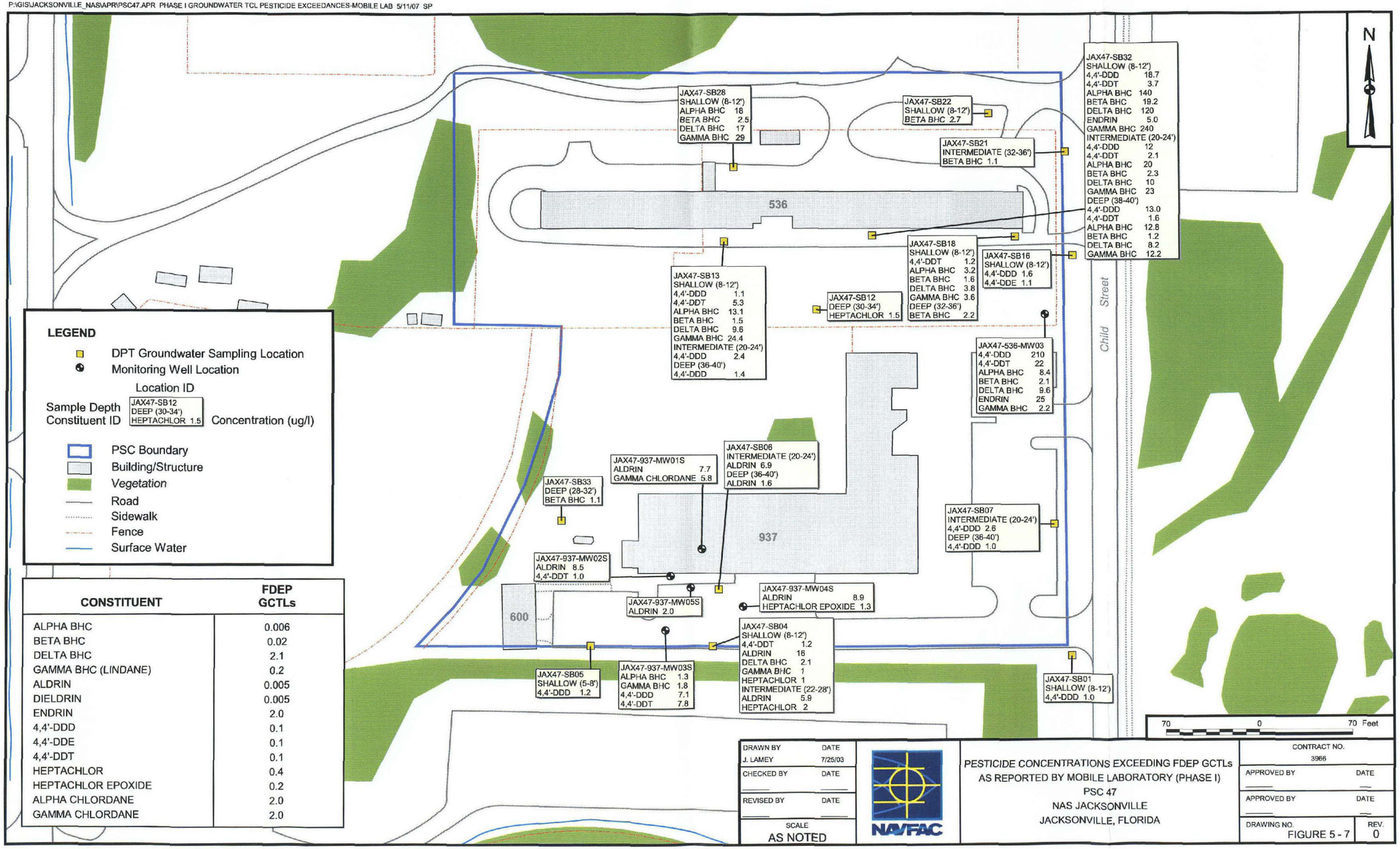
Table 5-4 (Continued)
Summary of Detected Pesticide Concentrations in Groundwater Samples - Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

			JAX47-937-		
Boring JAX47-	**FDEP GCTLs (µg/L)**	**REGION 9 PRGs**	**MW04S**	**MW05S**	**MW06D**
Sample ID			MW9374	MW9375	MW9376
Collection Date			6/25/2001	6/25/2001	6/25/2001
Pesticides (µg/L)					
4,4'-DDD	0.1	0.28	1 U	1 U	1 U
4,4'-DDE	0.1	0.2	1 U	1 U	1 U
4,4'-DDT	0.1	0.2	1 U	1 U	1 U
Aldrin	0.005	0.004	**8.9**	**2**	1 U
Alpha-BHC	0.006	0.011	1 U	1 U	1 U
Alpha-Chlordane	2	0.19	1 U	1 U	1 U
Beta-BHC	0.02	0.037	1 U	1 U	1 U
Delta-BHC	2.1	0.011	1 U	1 U	1 U
Dieldrin	0.005	0.0042	1 U	1 U	1 U
Endosulfan I	42	220	1 U	1 U	1 U
Endosulfan II	42	220	1 U	1 U	1 U
Endosulfan Sulfate	NL	220	1 U	1 U	1 U
Endrin	2	11	1 U	1 U	1 U
Endrin Aldehyde	NL	11	5.2	6.4	6
Endrin Ketone	NL	11	1 U	3.3	1 U
Gamma-BHC (Lindane)	0.2	0.052	1 U	1 U	1 U
Gamma-Chlordane	2	0.19	1 U	1 U	1 U
Heptachlor	0.4	0.015	1 U	1 U	1 U
Heptachlor Epoxide	0.2	0.0074	**1.3**	1 U	1 U
Methoxychlor	40	180	1 U	1 U	1 U
Toxaphene	3	0.061	NA	NA	NA

Notes:
[1] Sample not analyzed due to high turbidity
FDEP = Florida Department of Environmental Protection
GCTLs = Groundwater Cleanup Target Levels
PRGs = Preliminary Remedial Goals
NL = not listed
µg/L = micrograms per liter
U = less than laboratory detection limit
J= estimated value
NA= Not analyzed
Bold values exceed FDEP GCTLs

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR PHASE I GROUNDWATER TCL PESTICIDE EXCEEDANCES-MOBILE LAB 5/11/07 SP



LEGEND

- DPT Groundwater Sampling Location
- Monitoring Well Location

Location ID
Sample Depth / Constituent ID: JAX47-SB12 DEEP (30-34') HEPTACHLOR 1.5 — Concentration (ug/l)

- PSC Boundary
- Building/Structure
- *Vegetation*
- Road
- Sidewalk
- Fence
- Surface Water

CONSTITUENT	FDEP GCTLs
ALPHA BHC	0.006
BETA BHC	0.02
DELTA BHC	2.1
GAMMA BHC (LINDANE)	0.2
ALDRIN	0.005
DIELDRIN	0.005
ENDRIN	2.0
4,4'-DDD	0.1
4,4'-DDE	0.1
4,4'-DDT	0.1
HEPTACHLOR	0.4
HEPTACHLOR EPOXIDE	0.2
ALPHA CHLORDANE	2.0
GAMMA CHLORDANE	2.0

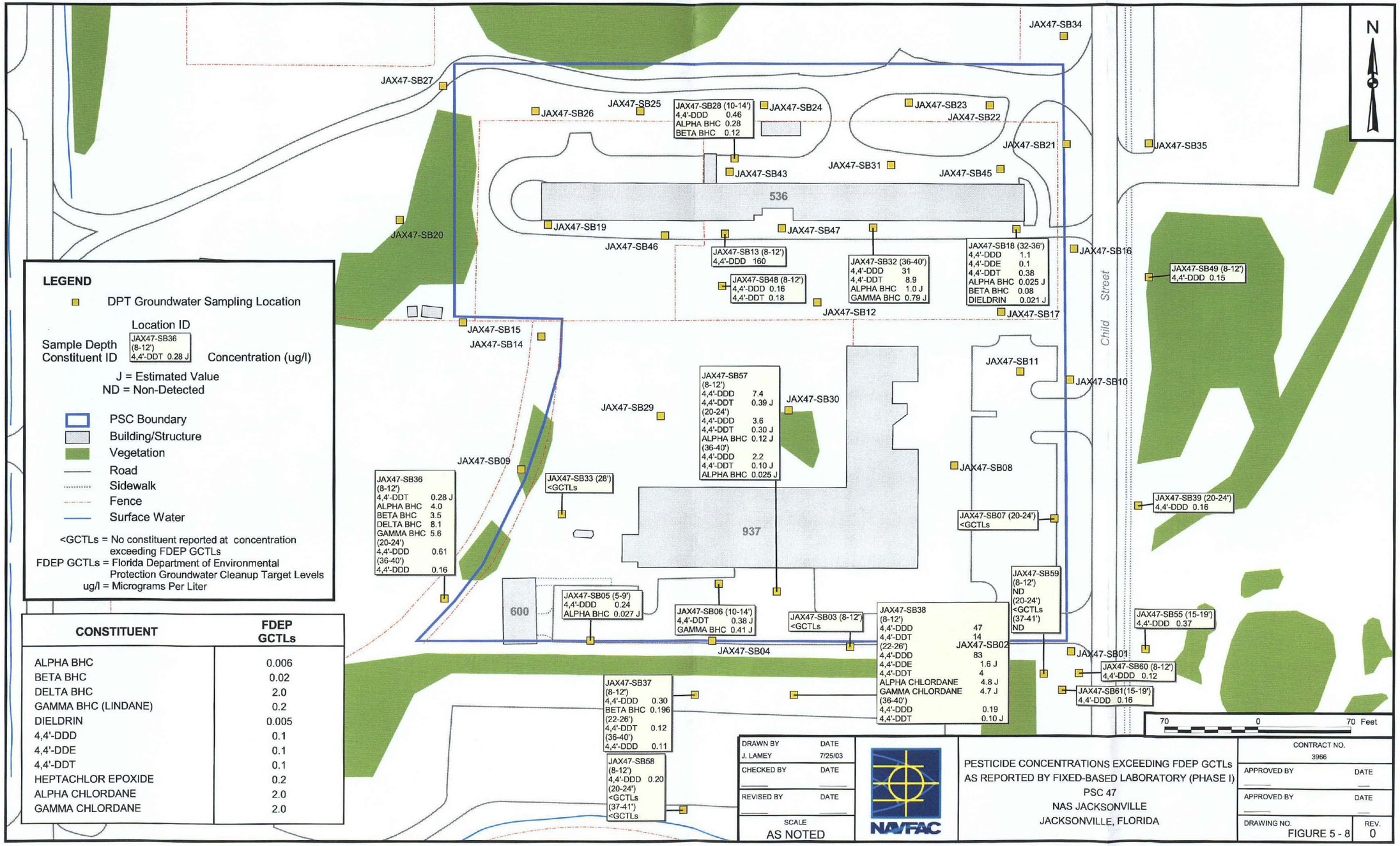
DRAWN BY	DATE
J. LAMEY	7/25/03
CHECKED BY	DATE
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

PESTICIDE CONCENTRATIONS EXCEEDING FDEP GCTLs
AS REPORTED BY MOBILE LABORATORY (PHASE I)
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	3966
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 7
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR PHASE I GROUNDWATER TCL PESTICIDE EXCEEDANCES-FIXED BASED 5/11/07 SP



LEGEND

- DPT Groundwater Sampling Location

Location ID
Sample Depth / Constituent ID: JAX47-SB36 (8-12') 4,4'-DDT 0.28 J — Concentration (ug/l)

J = Estimated Value
ND = Non-Detected

- PSC Boundary
- Building/Structure
- Vegetation
- Road
- Sidewalk
- Fence
- Surface Water

<GCTLs = No constituent reported at concentration exceeding FDEP GCTLs
FDEP GCTLs = Florida Department of Environmental Protection Groundwater Cleanup Target Levels
ug/l = Micrograms Per Liter

CONSTITUENT	FDEP GCTLs
ALPHA BHC	0.006
BETA BHC	0.02
DELTA BHC	2.0
GAMMA BHC (LINDANE)	0.2
DIELDRIN	0.005
4,4'-DDD	0.1
4,4'-DDE	0.1
4,4'-DDT	0.1
HEPTACHLOR EPOXIDE	0.2
ALPHA CHLORDANE	2.0
GAMMA CHLORDANE	2.0

DRAWN BY	DATE
J. LAMEY	7/25/03
CHECKED BY	DATE
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

PESTICIDE CONCENTRATIONS EXCEEDING FDEP GCTLs
AS REPORTED BY FIXED-BASED LABORATORY (PHASE I)
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	3966
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 8
REV.	0

and 36-40 ft bls). In the intermediate depth sample (22-26 ft bls), concentrations slightly exceeding GCTLs were also reported for alpha and gamma-chlordane and 4,4'-DDE. The highest 4,4'-DDD concentration reported at SB38 was 83 µg/L (22-26 ft bls) and the highest 4,4'-DDT concentration was 14 µg/L (8-12 ft bls). Concentrations of either 4,4'-DDD or 4,4'-DDT slightly exceeding GCTLs were also reported from these same three depth intervals at SB37, located approximately 85 ft due south of the former source area. The only exceedance reported at SB58, located approximately 85 ft south of SB37 (170 ft south of source area), was 4,4'-DDD at a concentration of 0.2 µg/L in the shallow sample (8-12 ft bls).

The other outlying hotspot was revealed by analytical results reported on DPT grab samples collected at SB36, located approximately 200 ft west (cross-gradient) of the former DVECC source area, between the DVECC property boundary fence and the outfield fence of the adjacent baseball field. Exceedances were reported for 4,4'-DDT and for each of the four BHC isomers in samples collected from the shallow interval (8-12 ft bls) at SB36, and for 4,4'-DDD only, at concentrations slightly exceeding GCTLs in the intermediate (20-24 ft bls) and deep (36-40 ft bls) samples.

5.3.2.1.2 TCL VOCs and SVOCs

VOC and SVOC concentrations exceeding GCTLs, as reported by mobile and fixed-base laboratories on groundwater samples collected during Phase I of the RI assessment, are illustrated on Figure 5-5. Please refer to Appendix D, Table D-1 to view a table showing which samples were analyzed for TCL VOCs and which samples were analyzed for a "hydrocarbon short list" during the Phase I groundwater assessment. VOC concentrations reported during Phase I are listed in Table 5-5 and SVOC concentrations are listed in Table 5-6. Laboratory reports are provided in Appendices I (mobile) and J (fixed base).

As indicated on Figure 5-9, groundwater analytical data suggest the presence of two, possibly three, separate hydrocarbon plumes at PSC 47: one near the removed DVECC tank south of Building 937 (southern plume), another in the vicinity of the former ASTs and UST near the central portion of the Pesticide Shop (Building 536) (northern plume), and a possible third plume upgradient (south) of DVECC in the area around SB37, SB38, and SB58.

Higher concentrations and greater diversity of constituents were identified in the southern plume. Petroleum hydrocarbons, PAHs, and chlorinated hydrocarbons were all reported at concentrations exceeding GCTLs in this area. Groundwater samples collected from MW01S, located inside Building 937 approximately 15 ft north of the former DVECC tank, had 10 reported exceedances, including benzene (7.4 µg/L), toluene (50.2 µg/L), ethylbenzene (110 µg/L), total xylenes (1960 µg/L), cis-DCE (380 µg/L), TCE (3.2 µg/L), PCE (14.0 µg/L), naphthalene (130 µg/L), 1-methylnaphthalene (36.7 µg/L), and 2-methylnaphthalene (65.0 µg/L). Six of these constituents (toluene, ethylbenzene, total xylenes,

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB03 SB03-G-08-121801 12/18/2001	JAX47-SB03 SB03-G08-070501 7/5/2001	JAX47-SB05 SB05-G-20-121901 12/19/2001	JAX47-SB05 SB05-G05-070601 7/6/2001	JAX47-SB06 SB06-G10-070601 7/6/2001
LABORATORY FIXED/MOBILE			F	F	F	F	F
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	7	340	5 U	5 U	5 U	5 U	5 U
1,2,4-TRICHLOROBENZENE	70	190	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROBENZENE	600	370	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	3	0.12	5 U	5 U	5 U	5 U	0.4 J
1,3-DICHLOROBENZENE	10	5.5	5 U	5 U	5 U	5 U	5 U
1,4-DICHLOROBENZENE	75	0.5	5 U	5 U	5 U	5 U	5 U
1-METHYLNAPHTHALENE	20	NL	NA	NA	NA	NA	NA
2-BUTANONE	4200	1900	5 U	5 U	5 U	5 U	2 J
2-HEXANONE	280	NL	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	20	6.2	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	560	160	5 U	5 U	5 U	5 U	5 U
ACETONE	700	610	5 U	5 U	5 U	10 U	5 U
BENZENE	1	0.34	5 U	5 U	5 U	5 U	4 J
BROMOMETHANE	9.8	8.7	5 U	5 U	5 U	2 J	5 U
CARBON DISULFIDE	700	1000	5 U	0.8 J	5 U	5 U	0.9 J
CHLOROBENZENE	100	110	5 U	5 U	5 U	5 U	1 J
CHLOROETHANE	12	4.6	5 U	5 U	5 U	5 U	2 J
CHLOROFORM	5.7	6.2	5 U	5 U	5 U	5 U	5 U
CHLOROMETHANE	2.7	1.5	5 U	5 U	5 U	5 U	1 J
CIS-1,2-DICHLOROETHENE	70	61	2 J	4 J	5 U	0.3 J	**600**
CYCLOHEXANE	NL	35000	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	30	2.9	5 U	5 U	5 U	5 U	**50**
ISOPROPYLBENZENE	0.8	660	5 U	5 U	5 U	5 U	3 J
M+P-XYLENES	NL[1]	NL	NA	NA	NA	NA	NA
METHYL ACETATE	5000	6100	5 U	5 U	5 U	5 U	5 U
METHYL CYCLOHEXANE	NL	5200	5 U	5 U	5 U	5 U	5 U
METHYL TERT-BUTYL ETHER	50	13	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	20	6.2	NA	NA	NA	NA	NA
O-XYLENE	NL	210	NA	NA	NA	NA	NA
STYRENE	100	1600	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	3	0.66	5 U	0.4 J	5 U	5 U	**7**
TOLUENE	40	720	5 U	5 U	5 U	5 U	11
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	5 U	5 U	5 U	5 U	**280**
TRANS-1,2-DICHLOROETHENE	100	120	5 U	5 U	5 U	5 U	1 J
TRICHLOROETHENE	3	0.028	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	1	0.02	5 U	5 U	5 U	5 U	**4 J**

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB06 SB06-G16-121901 12/19/2001	JAX47-SB06 SB06-G28-121901 12/19/2001	JAX47-SB13 SB13-G08-070601 7/6/2001	JAX47-SB13 SB13-G20-121801 12/18/2001	JAX47-SB16 SB16-G08-062501 6/25/2001
LABORATORY FIXED/MOBILE			**F**	**F**	**F**	**F**	**M**
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	5 U	5 U	5 U	5 U	NA
1,1-DICHLOROETHENE	7	340	5 U	5 U	5 U	5 U	NA
1,2,4-TRICHLOROBENZENE	70	190	5 U	5 U	5 U	5 U	NA
1,2-DICHLOROBENZENE	600	370	5 U	5 U	1 J	5 U	NA
1,2-DICHLOROETHANE	3	0.12	5 U	2 J	5 U	5 U	NA
1,3-DICHLOROBENZENE	10	5.5	5 U	5 U	5 U	5 U	NA
1,4-DICHLOROBENZENE	75	0.5	5 U	5 U	4 J	5 U	NA
1-METHYLNAPHTHALENE	20	NL	NA	NA	NA	NA	10 U
2-BUTANONE	4200	1900	5 U	9	5 U	1 J	NA
2-HEXANONE	280	NL	5 U	2 J	5 U	5 U	NA
2-METHYLNAPHTHALENE	20	6.2	NA	NA	NA	NA	10 U
4-METHYL-2-PENTANONE	560	160	5 U	3 J	5 U	5 U	NA
ACETONE	700	610	5 U	84 U	28	6 U	NA
BENZENE	1	0.34	0.8 J	29	2 J	5 U	1 U
BROMOMETHANE	9.8	8.7	5 U	5 U	5 U	5 U	NA
CARBON DISULFIDE	700	1000	5 U	1 J	5 U	5 U	NA
CHLOROBENZENE	100	110	0.4 J	5 J	18	5 U	NA
CHLOROETHANE	12	4.6	5 U	5 U	5 U	5 U	NA
CHLOROFORM	5.7	6.2	5 U	5 U	0.6 J	5 U	NA
CHLOROMETHANE	2.7	1.5	5 U	5 U	5 U	5 U	NA
CIS-1,2-DICHLOROETHENE	70	61	6	**340**	5 U	5 U	1 U
CYCLOHEXANE	NL	35000	5 U	5 U	5 U	5 U	NA
ETHYLBENZENE	30	2.9	5 U	**350**	4 J	5 U	1 U
ISOPROPYLBENZENE	0.8	660	5 U	**26**	0.7 J	5 U	NA
M+P-XYLENES	NL[1]	NL	NA	NA	NA	NA	1 U
METHYL ACETATE	5000	6100	5 U	5 U	5 U	5 U	NA
METHYL CYCLOHEXANE	NL	5200	5 U	5 U	5 U	1 J	NA
METHYL TERT-BUTYL ETHER	50	13	5 U	5 U	5 U	5 U	NA
NAPHTHALENE	20	6.2	NA	NA	NA	NA	3 U
O-XYLENE	NL	210	NA	NA	NA	NA	1 U
STYRENE	100	1600	5 U	5 U	5 U	5 U	NA
TETRACHLOROETHENE	3	0.66	5 U	3 J	5 U	5 U	1 U
TOLUENE	40	720	5 U	**110**	0.4 J	5 U	1 U
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	5 U	**4000**	**21**	5 U	NA
TRANS-1,2-DICHLOROETHENE	100	120	5 U	0.5 J	5 U	5 U	1 U
TRICHLOROETHENE	3	0.028	5 U	2 J	**11**	5 U	1 U
VINYL CHLORIDE	1	0.02	5 U	**4 J**	5 U	5 U	1 U

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB16 SB16-G20-062501 6/25/2001	JAX47-SB16 SB16-G32-062501 6/25/2001	JAX47-SB17 SB17-G08-062501 6/25/2001	JAX47-SB17 SB17-G08-062601 6/26/2001	JAX47-SB17 SB17-G20-062501 6/25/2001
LABORATORY FIXED/MOBILE			**M**	**M**	**M**	**M**	**M**
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	7	340	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	70	190	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	600	370	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	3	0.12	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	10	5.5	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	75	0.5	NA	NA	NA	NA	NA
1-METHYLNAPHTHALENE	20	NL	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	4200	1900	NA	NA	NA	NA	NA
2-HEXANONE	280	NL	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	20	6.2	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	560	160	NA	NA	NA	NA	NA
ACETONE	700	610	NA	NA	NA	NA	NA
BENZENE	1	0.34	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	9.8	8.7	NA	NA	NA	NA	NA
CARBON DISULFIDE	700	1000	NA	NA	NA	NA	NA
CHLOROBENZENE	100	110	NA	NA	NA	NA	NA
CHLOROETHANE	12	4.6	NA	NA	NA	NA	NA
CHLOROFORM	5.7	6.2	NA	NA	NA	NA	NA
CHLOROMETHANE	2.7	1.5	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	70	61	1 U	1 U	1 U	1 U	1 U
CYCLOHEXANE	NL	35000	NA	NA	NA	NA	NA
ETHYLBENZENE	30	2.9	1 U	1 U	1 U	1 U	1 U
ISOPROPYLBENZENE	0.8	660	NA	NA	NA	NA	NA
M+P-XYLENES	NL[1]	NL	1 U	1 U	1 U	1 U	1.3
METHYL ACETATE	5000	6100	NA	NA	NA	NA	NA
METHYL CYCLOHEXANE	NL	5200	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	50	13	NA	NA	NA	NA	NA
NAPHTHALENE	20	6.2	3 U	3 U	3 U	3 U	3 U
O-XYLENE	NL	210	1 U	1 U	1 U	1 U	2.1
STYRENE	100	1600	NA	NA	NA	NA	NA
TETRACHLOROETHENE	3	0.66	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	720	1 U	1 U	1 U	1 U	1 U
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	NA	NA	NA	NA	NA
TRANS-1,2-DICHLOROETHENE	100	120	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	3	0.028	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1	0.02	1 U	1 U	1 U	1 U	1 U

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB17 SB17-G32-062501 6/25/2001	JAX47-SB18 SB18-G08-062501 6/25/2001	JAX47-SB18 SB18-G20-062501 6/25/2001	JAX47-SB18 SB18-G32-062501 6/25/2001	JAX47-SB18 SB18-G32-070601 7/6/2001
LABORATORY FIXED/MOBILE			**M**	**M**	**M**	**M**	**F**
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	NA	NA	NA	NA	5 U
1,1-DICHLOROETHENE	7	340	NA	NA	NA	NA	5 U
1,2,4-TRICHLOROBENZENE	70	190	NA	NA	NA	NA	5 U
1,2-DICHLOROBENZENE	600	370	NA	NA	NA	NA	5 U
1,2-DICHLOROETHANE	3	0.12	NA	NA	NA	NA	0.4 J
1,3-DICHLOROBENZENE	10	5.5	NA	NA	NA	NA	5 U
1,4-DICHLOROBENZENE	75	0.5	NA	NA	NA	NA	5 U
1-METHYLNAPHTHALENE	20	NL	50 U	14	10 U	10 U	NA
2-BUTANONE	4200	1900	NA	NA	NA	NA	5 U
2-HEXANONE	280	NL	NA	NA	NA	NA	5 U
2-METHYLNAPHTHALENE	20	6.2	50 U	10 U	10 U	10 U	NA
4-METHYL-2-PENTANONE	560	160	NA	NA	NA	NA	5 U
ACETONE	700	610	NA	NA	NA	NA	5 U
BENZENE	1	0.34	5 U	2.8	1 U	1 U	5 U
BROMOMETHANE	9.8	8.7	NA	NA	NA	NA	5 U
CARBON DISULFIDE	700	1000	NA	NA	NA	NA	5 U
CHLOROBENZENE	100	110	NA	NA	NA	NA	5 U
CHLOROETHANE	12	4.6	NA	NA	NA	NA	5 U
CHLOROFORM	5.7	6.2	NA	NA	NA	NA	5 U
CHLOROMETHANE	2.7	1.5	NA	NA	NA	NA	5 U
CIS-1,2-DICHLOROETHENE	70	61	5 U	2.3	1 U	2	5 U
CYCLOHEXANE	NL	35000	NA	NA	NA	NA	5 U
ETHYLBENZENE	30	2.9	5 U	2.4	1 U	1 U	5 U
ISOPROPYLBENZENE	0.8	660	NA	NA	NA	NA	5 U
M+P-XYLENES	NL[1]	NL	5 U	1 U	1 U	1 U	NA
METHYL ACETATE	5000	6100	NA	NA	NA	NA	5 U
METHYL CYCLOHEXANE	NL	5200	NA	NA	NA	NA	2 J
METHYL TERT-BUTYL ETHER	50	13	NA	NA	NA	NA	5 U
NAPHTHALENE	20	6.2	15 U	10.8	3 U	3 U	NA
O-XYLENE	NL	210	5 U	1 U	1 U	1 U	NA
STYRENE	100	1600	NA	NA	NA	NA	5 U
TETRACHLOROETHENE	3	0.66	5 U	1 U	1 U	1 U	5 U
TOLUENE	40	720	5 U	37.2	1 U	1 U	5 U
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	NA	NA	NA	NA	5 U
TRANS-1,2-DICHLOROETHENE	100	120	5 U	1 U	1 U	1 U	5 U
TRICHLOROETHENE	3	0.028	5 U	1.3	1 U	1 U	5 U
VINYL CHLORIDE	1	0.02	5 U	1 U	1 U	1 U	5 U

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB29 SB29-G08-121901 12/19/2001	JAX47-SB30 SB30-G08-121901 12/19/2001	JAX47-SB33 SB33-G08-070601 7/6/2001	JAX47-SB37 SB37-G08-122001 12/20/2001	JAX47-SB43 SB43-G08-121801 12/18/2001
LABORATORY FIXED/MOBILE			**F**	**F**	**F**	**F**	**F**
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	7	340	5 U	5 U	5 U	5 U	2 J
1,2,4-TRICHLOROBENZENE	70	190	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROBENZENE	600	370	5 U	5 U	5 U	5 U	3 J
1,2-DICHLOROETHANE	3	0.12	5 U	5 U	5 U	5 U	5 U
1,3-DICHLOROBENZENE	10	5.5	5 U	5 U	5 U	5 U	5 U
1,4-DICHLOROBENZENE	75	0.5	5 U	5 U	5 U	5 U	9
1-METHYLNAPHTHALENE	20	NL	NA	NA	NA	NA	NA
2-BUTANONE	4200	1900	5 U	5 U	5 U	3 J	5
2-HEXANONE	280	NL	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	20	6.2	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	560	160	5 U	5 U	5 U	5 U	5 U
ACETONE	700	610	5 U	5 U	5 U	12 U	13 U
BENZENE	1	0.34	5 U	5 U	5 U	**3 J**	**7**
BROMOMETHANE	9.8	8.7	5 U	5 U	5 U	5 U	5 U
CARBON DISULFIDE	700	1000	5 U	5 U	5 U	2 J	5 U
CHLOROBENZENE	100	110	5 U	5 U	5 U	0.5 J	42
CHLOROETHANE	12	4.6	5 U	5 U	5 U	5 U	5 U
CHLOROFORM	5.7	6.2	5 U	5 U	5 U	5 U	2 J
CHLOROMETHANE	2.7	1.5	5 U	5 U	5 U	5 U	0.9 J
CIS-1,2-DICHLOROETHENE	70	61	5 U	5 U	5 U	**390**	19
CYCLOHEXANE	NL	35000	5 U	5 U	5 U	5 U	120
ETHYLBENZENE	30	2.9	5 U	5 U	5 U	5 J	**100**
ISOPROPYLBENZENE	0.8	660	5 U	5 U	5 U	**4 J**	**18**
M+P-XYLENES	NL[1]	NL	NA	NA	NA	NA	NA
METHYL ACETATE	5000	6100	5 U	5 U	5 U	5 U	5 U
METHYL CYCLOHEXANE	NL	5200	5 U	5 U	5 U	5 U	46
METHYL TERT-BUTYL ETHER	50	13	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	20	6.2	NA	NA	NA	NA	NA
O-XYLENE	NL	210	NA	NA	NA	NA	NA
STYRENE	100	1600	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	3	0.66	5 U	5 U	5 U	**6**	0.4 J
TOLUENE	40	720	5 U	5 U	5 U	5 U	1 J
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	5 U	5 U	5 U	4 J	**63**
TRANS-1,2-DICHLOROETHENE	100	120	5 U	5 U	5 U	2 J	5 U
TRICHLOROETHENE	3	0.028	5 U	5 U	5 U	3 J	**86**
VINYL CHLORIDE	1	0.02	5 U	5 U	5 U	2 J	5 U

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB43 SB43-G20-121801 12/18/2001	JAX47-SB45 SB45-G08-121801 12/18/2001	JAX47-SB46 SB46-G08-122001 12/20/2001	JAX47-SB46 SB46-G20-122001 12/20/2001	JAX47-SB47 SB47-G08-121801 12/18/2001
LABORATORY FIXED/MOBILE			**F**	**F**	**F**	**F**	**F**
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	7	340	5 U	5 U	5 U	5 U	5 U
1,2,4-TRICHLOROBENZENE	70	190	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROBENZENE	600	370	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	3	0.12	5 U	5 U	5 U	5 U	5 U
1,3-DICHLOROBENZENE	10	5.5	5 U	5 U	5 U	5 U	0.8 J
1,4-DICHLOROBENZENE	75	0.5	5 U	5 U	5 U	5 U	4 J
1-METHYLNAPHTHALENE	20	NL	NA	NA	NA	NA	NA
2-BUTANONE	4200	1900	5 U	5 U	5 U	5 U	10
2-HEXANONE	280	NL	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	20	6.2	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	560	160	5 U	5 U	5 U	5 U	5 U
ACETONE	700	610	5 U	9 U	10 U	14 U	25 U
BENZENE	1	0.34	5 U	5 U	5 U	5 U	3 J
BROMOMETHANE	9.8	8.7	5 U	5 U	5 U	5 U	5 U
CARBON DISULFIDE	700	1000	5 U	5 U	5 U	5 U	0.7 J
CHLOROBENZENE	100	110	5 U	5 U	5 U	5 U	22
CHLOROETHANE	12	4.6	5 U	5 U	5 U	5 U	5 U
CHLOROFORM	5.7	6.2	5 U	5 U	0.4 J	5 U	5 U
CHLOROMETHANE	2.7	1.5	5 U	5 U	5 U	5 U	5 U
CIS-1,2-DICHLOROETHENE	70	61	5 U	5 U	5 U	5 U	0.6 J
CYCLOHEXANE	NL	35000	5 U	5 U	5 U	5 U	110
ETHYLBENZENE	30	2.9	5 U	5 U	5 U	5 U	**110**
ISOPROPYLBENZENE	0.8	660	5 U	5 U	5 U	5 U	**26**
M+P-XYLENES	NL[1]	NL	NA	NA	NA	NA	NA
METHYL ACETATE	5000	6100	5 U	5 U	5 U	5 U	5 U
METHYL CYCLOHEXANE	NL	5200	5 U	5 U	1 J	1 J	72
METHYL TERT-BUTYL ETHER	50	13	5 U	5 U	5 U	0.2 J	5 U
NAPHTHALENE	20	6.2	NA	NA	NA	NA	NA
O-XYLENE	NL	210	NA	NA	NA	NA	NA
STYRENE	100	1600	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	3	0.66	5 U	5 U	5 U	5 U	5 U
TOLUENE	40	720	5 U	5 U	5 U	5 U	1 J
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	5 U	5 U	5 U	5 U	**65**
TRANS-1,2-DICHLOROETHENE	100	120	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	3	0.028	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	1	0.02	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB47 SB47-G20-121801 12/18/2001	JAX47-SB48 SB48-G08-121801 12/18/2001	JAX47-SB48 SB48-G20-121801 12/18/2001	JAX47-SB57 SB57-G08-121901 12/19/2001	JAX47-SB57 SB57-G20-121901 12/19/2001
LABORATORY FIXED/MOBILE			**F**	**F**	**F**	**F**	**F**
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	7	340	5 U	5 U	5 U	5 U	5 U
1,2,4-TRICHLOROBENZENE	70	190	5 U	9 U	5 U	5 U	5 U
1,2-DICHLOROBENZENE	600	370	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	3	0.12	5 U	5 U	5 U	5 U	5 U
1,3-DICHLOROBENZENE	10	5.5	5 U	0.4 J	5 U	5 U	5 U
1,4-DICHLOROBENZENE	75	0.5	5 U	5 U	5 U	5 U	5 U
1-METHYLNAPHTHALENE	20	NL	NA	NA	NA	NA	NA
2-BUTANONE	4200	1900	5 U	4 J	5 U	5 U	5 U
2-HEXANONE	280	NL	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	20	6.2	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	560	160	5 U	5 U	5 U	5 U	5 U
ACETONE	700	610	6 U	14 U	8 U	5 U	5 U
BENZENE	1	0.34	5 U	0.7 J	5 U	6	5
BROMOMETHANE	9.8	8.7	5 U	5 U	5 U	5 U	5 U
CARBON DISULFIDE	700	1000	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	100	110	5 U	11	5 U	5 U	5 U
CHLOROETHANE	12	4.6	5 U	5 U	5 U	5 U	5 U
CHLOROFORM	5.7	6.2	5 U	5 U	5 U	5 U	5 U
CHLOROMETHANE	2.7	1.5	5 U	5 U	0.8 J	5 U	5 U
CIS-1,2-DICHLOROETHENE	70	61	5 U	5 U	5 U	**230**	**73**
CYCLOHEXANE	NL	35000	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	30	2.9	5 U	13	5 U	60	5 U
ISOPROPYLBENZENE	0.8	660	5 U	**3 J**	5 U	**4 J**	3 J
M+P-XYLENES	NL[1]	NL	NA	NA	NA	NA	NA
METHYL ACETATE	5000	6100	5 U	5 U	5 U	5	5
METHYL CYCLOHEXANE	NL	5200	5 U	5 U	5 U	5 U	5 U
METHYL TERT-BUTYL ETHER	50	13	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	20	6.2	NA	NA	NA	NA	NA
O-XYLENE	NL	210	NA	NA	NA	NA	NA
STYRENE	100	1600	5 U	1 J	5 U	5 U	5 U
TETRACHLOROETHENE	3	0.66	5 U	5 U	5 U	1 J	3 J
TOLUENE	40	720	5 U	0.8 J	5 U	2 J	0.4 J
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	5 U	**23**	5 U	9	3 J
TRANS-1,2-DICHLOROETHENE	100	120	5 U	5 U	5 U	4 J	5 U
TRICHLOROETHENE	3	0.028	5 U	5 U	5 U	5 U	**13**
VINYL CHLORIDE	1	0.02	5 U	5 U	5 U	**4 J**	5 U

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB57 SB57-G36-121901 12/19/2001	JAX47-SB60 SB60-G08-122001 12/20/2001	USGS-DSMW46 USGS(D)-040902 4/9/2002	USGS-SSMW45 USGS(S)-040902 4/9/2002	JAX47-536-MW03 MW5363-062501 6/25/2001
LABORATORY FIXED/MOBILE			F	F	F	F	M
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	5 U	5 U	5 U	5 U	NA
1,1-DICHLOROETHENE	7	340	5 U	5 U	5 U	5 U	NA
1,2,4-TRICHLOROBENZENE	70	190	5 U	5 U	5 U	5 U	NA
1,2-DICHLOROBENZENE	600	370	5 U	5 U	5 U	5 U	NA
1,2-DICHLOROETHANE	3	0.12	5 U	5 U	5 U	5 U	NA
1,3-DICHLOROBENZENE	10	5.5	5 U	5 U	5 U	5 U	NA
1,4-DICHLOROBENZENE	75	0.5	5 U	5 U	5 U	5 U	NA
1-METHYLNAPHTHALENE	20	NL	NA	NA	NA	NA	16.2
2-BUTANONE	4200	1900	5 U	5 U	5 U	5 U	NA
2-HEXANONE	280	NL	5 U	5 U	5 U	5 U	NA
2-METHYLNAPHTHALENE	20	6.2	NA	NA	NA	NA	16.5
4-METHYL-2-PENTANONE	560	160	5 U	5 U	5 U	5 U	NA
ACETONE	700	610	5 U	13 U	5 U	5 U	NA
BENZENE	1	0.34	5 U	5 U	5 U	5 U	1 U
BROMOMETHANE	9.8	8.7	5 U	5 U	5 U	5 U	NA
CARBON DISULFIDE	700	1000	5 U	5 U	0.8 J	0.8 J	NA
CHLOROBENZENE	100	110	5 U	5 U	5 U	5 U	NA
CHLOROETHANE	12	4.6	5 U	5 U	5 U	5 U	NA
CHLOROFORM	5.7	6.2	5 U	5 U	5 U	5 U	NA
CHLOROMETHANE	2.7	1.5	5 U	5 U	5 U	5 U	NA
CIS-1,2-DICHLOROETHENE	70	61	5 U	0.3 J	5 U	5 U	1.2
CYCLOHEXANE	NL	35000	5 U	5 U	5 U	5 U	NA
ETHYLBENZENE	30	2.9	5 U	5 U	5 U	5 U	1.6
ISOPROPYLBENZENE	0.8	660	5 U	5 U	5 U	5 U	NA
M+P-XYLENES	NL[1]	NL	NA	NA	NA	NA	3.5
METHYL ACETATE	5000	6100	5 U	5 U	5 U	5 U	NA
METHYL CYCLOHEXANE	NL	5200	5 U	5 U	5 U	5 U	NA
METHYL TERT-BUTYL ETHER	50	13	5 U	5 U	5 U	5 U	NA
NAPHTHALENE	20	6.2	NA	NA	NA	NA	6.5
O-XYLENE	NL	210	NA	NA	NA	NA	2.5
STYRENE	100	1600	5 U	5 U	5 U	5 U	NA
TETRACHLOROETHENE	3	0.66	5 U	5 U	5 U	5 U	1 U
TOLUENE	40	720	5 U	5 U	5 U	5 U	1 U
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	5 U	5 U	5 U	5 U	NA
TRANS-1,2-DICHLOROETHENE	100	120	5 U	5 U	5 U	5 U	1 U
TRICHLOROETHENE	3	0.028	5 U	5 U	5 U	5 U	1.8
VINYL CHLORIDE	1	0.02	5 U	5 U	5 U	5 U	1 U

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-937-MW01S MW9371-062501 6/25/2001	JAX47-937-MW02S MW9372-062501 6/25/2001	JAX47-937-MW03S MW9373-062501 6/25/2001	JAX47-937-MW04S MW9374-062501 6/25/2001	JAX47-937-MW05S MW9375-062501 6/25/2001
LABORATORY FIXED/MOBILE			**M**	**M**	**M**	**M**	**M**
Volatile Organics (ug/L)							
1,1-DICHLOROETHANE	70	810	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	7	340	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	70	190	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	600	370	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	3	0.12	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	10	5.5	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	75	0.5	NA	NA	NA	NA	NA
1-METHYLNAPHTHALENE	20	NL	36.7	10 U	10 U	100 U	10 U
2-BUTANONE	4200	1900	NA	NA	NA	NA	NA
2-HEXANONE	280	NL	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	20	6.2	65	10 U	10 U	100 U	10 U
4-METHYL-2-PENTANONE	560	160	NA	NA	NA	NA	NA
ACETONE	700	610	NA	NA	NA	NA	NA
BENZENE	1	0.34	7.4	1 U	1 U	0	1 U
BROMOMETHANE	9.8	8.7	NA	NA	NA	NA	NA
CARBON DISULFIDE	700	1000	NA	NA	NA	NA	NA
CHLOROBENZENE	100	110	NA	NA	NA	NA	NA
CHLOROETHANE	12	4.6	NA	NA	NA	NA	NA
CHLOROFORM	5.7	6.2	NA	NA	NA	NA	NA
CHLOROMETHANE	2.7	1.5	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	70	61	**380**	47.4	**79.3**	**360**	45.2
CYCLOHEXANE	NL	35000	NA	NA	NA	NA	NA
ETHYLBENZENE	30	2.9	110	4.5	1 U	140	1 U
ISOPROPYLBENZENE	0.8	660	NA	NA	NA	NA	NA
M+P-XYLENES	NL[1]	NL	**760**	1 U	3.2	**930**	1 U
METHYL ACETATE	5000	6100	NA	NA	NA	NA	NA
METHYL CYCLOHEXANE	NL	5200	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	50	13	NA	NA	NA	NA	NA
NAPHTHALENE	20	6.2	**130**	3 U	5.2	**150**	3 U
O-XYLENE	NL	210	**1200**	1 U	3.3	**1400**	1 U
STYRENE	100	1600	NA	NA	NA	NA	NA
TETRACHLOROETHENE	3	0.66	**14**	**21.7**	2.3	**23**	**4.6**
TOLUENE	40	720	**50.2**	1 U	1 U	**67**	1 U
TOTAL 1,2-DICHLOROETHENE	63	61	NA	NA	NA	NA	NA
TOTAL XYLENES	20	210	NA	NA	NA	NA	NA
TRANS-1,2-DICHLOROETHENE	100	120	1 U	1 U	1 U	10 U	1 U
TRICHLOROETHENE	3	0.028	**3.2**	**6.6**	**6.3**	10 U	2.5
VINYL CHLORIDE	1	0.02	1 U	1 U	1 U	10 U	1 U

See notes at end of table.

Table 5-5
Summary of Detected VOCs in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE NUMBER* SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-937-MW06D MW9376-062501 6/25/2001
LABORATORY FIXED/MOBILE			**M**
Volatile Organics (ug/L)			
1,1-DICHLOROETHANE	70	810	NA
1,1-DICHLOROETHENE	7	340	NA
1,2,4-TRICHLOROBENZENE	70	190	NA
1,2-DICHLOROBENZENE	600	370	NA
1,2-DICHLOROETHANE	3	0.12	NA
1,3-DICHLOROBENZENE	10	5.5	NA
1,4-DICHLOROBENZENE	75	0.5	NA
1-METHYLNAPHTHALENE	20	NL	10 U
2-BUTANONE	4200	1900	NA
2-HEXANONE	280	NL	NA
2-METHYLNAPHTHALENE	20	6.2	10 U
4-METHYL-2-PENTANONE	560	160	NA
ACETONE	700	610	NA
BENZENE	1	0.34	1 U
BROMOMETHANE	9.8	8.7	NA
CARBON DISULFIDE	700	1000	NA
CHLOROBENZENE	100	110	NA
CHLOROETHANE	12	4.6	NA
CHLOROFORM	5.7	6.2	NA
CHLOROMETHANE	2.7	1.5	NA
CIS-1,2-DICHLOROETHENE	70	61	3.9
CYCLOHEXANE	NL	35000	NA
ETHYLBENZENE	30	2.9	1 U
ISOPROPYLBENZENE	0.8	660	NA
M+P-XYLENES	NL[1]	NL	1 U
METHYL ACETATE	5000	6100	NA
METHYL CYCLOHEXANE	NL	5200	NA
METHYL TERT-BUTYL ETHER	50	13	NA
NAPHTHALENE	20	6.2	3 U
O-XYLENE	NL	210	1 U
STYRENE	100	1600	NA
TETRACHLOROETHENE	3	0.66	1 U
TOLUENE	40	720	1 U
TOTAL 1,2-DICHLOROETHENE	63	61	NA
TOTAL XYLENES	20	210	NA
TRANS-1,2-DICHLOROETHENE	100	120	1 U
TRICHLOROETHENE	3	0.028	1 U
VINYL CHLORIDE	1	0.02	1 U

See notes at end of table.

Notes:
[1] GCTL for Total Xylenes = 20 µg/L
GCTL = Groundwater Cleanup Target Level
F = Fixed-Base Laboratory
M = Mobile Laboratory
J = Estimated
NA = not analyzed
NL - GCTL not listed in 62-770 FAC
U = Less than Laboratory Detection Limit
PRGs = Preliminary Remedial Goals
* = PSC47 prefix was dropped from each sample number.

Table 5-6
Summary of Detected SVOCs in Groundwater-Phase I

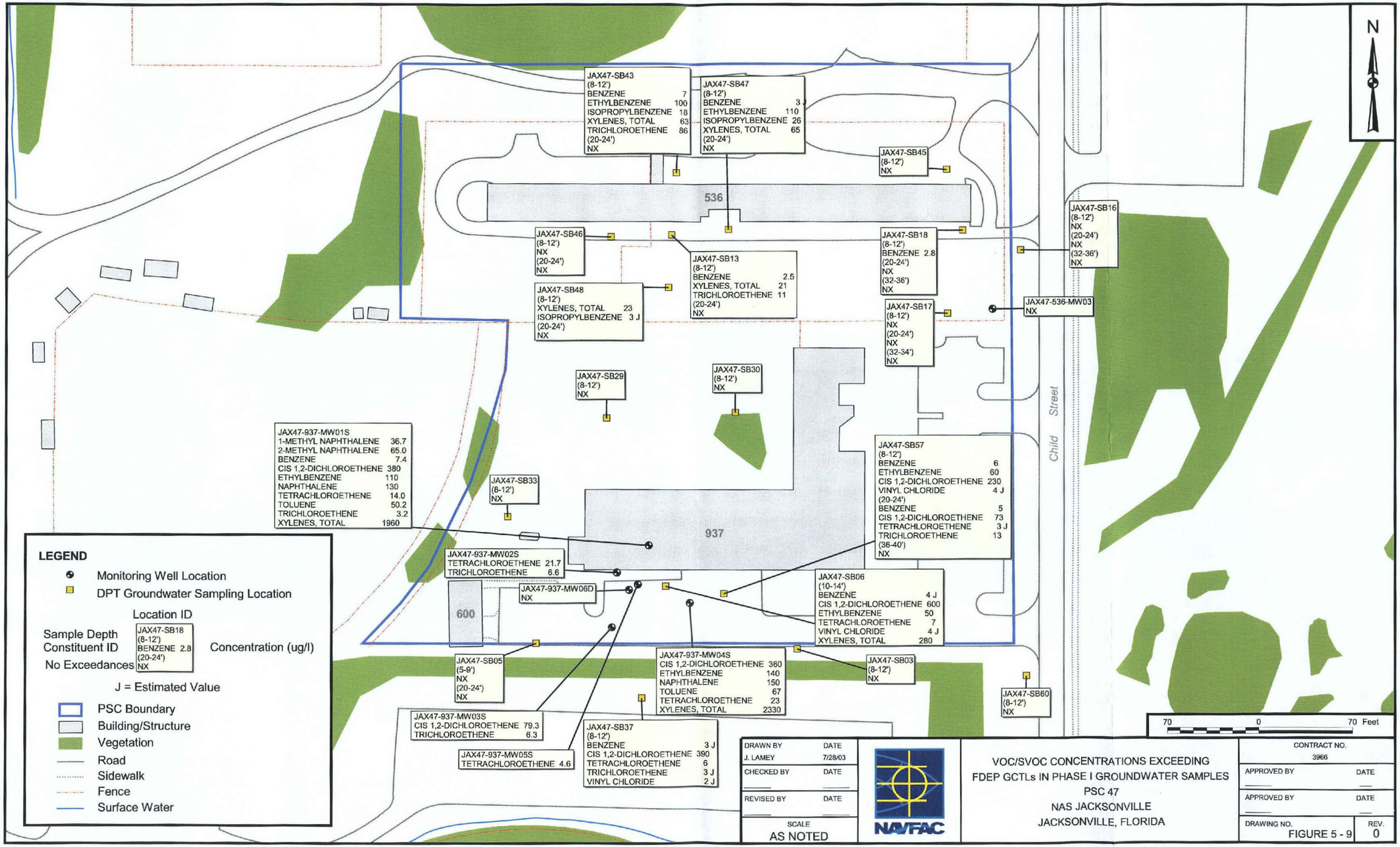
Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 1

LOCATION SAMPLE NUMBER SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	JAX47-SB03 JAX47-SB03-G08-070501 7/5/2001	JAX47-SB05 JAX47-SB05-G05-070601 7/6/2001	JAX47-SB06 JAX47-SB06-G10-070601 7/6/2001
Semivolatile Organics (ug/L)					
2,4-DICHLOROPHENOL	0.5	110	10 U	**8 J**	10 U
2,4-DIMETHYLPHENOL	140	730	10 U	10 U	4 J
2-METHYLNAPHTHALENE	20	6.2	10 U	10 U	**52**
2-METHYLPHENOL	35	1800	10 U	10 U	2 J
4-METHYLPHENOL	4	180	10 U	3 J	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	4.8	10 U	5 J	5 J
DI-N-BUTYL PHTHALATE	700	3600	10 U	10 U	0.9 J
DIETHYL PHTHALATE	5600	29000	10 U	10 U	2 J
FLUORENE	280	240	10 U	10 U	10 U
NAPHTHALENE	20	6.2	0.8 J	10 U	**60**
PHENANTHRENE	210	180	10 U	10 U	10 U

LOCATION SAMPLE NUMBER SAMPLE DATE	FDEP GCTLs (ug/L)	REGION 9 PRGs (ug/L)	USGS-DSMW46 JAX47-USGS(D)-040902 4/9/2002	USGS-SSMW45 JAX47-USGS(S)-040902 4/9/2002
Semivolatile Organics (ug/L)				
2,4-DICHLOROPHENOL	0.5	110	11 U	10 U
2,4-DIMETHYLPHENOL	140	730	11 U	10 U
2-METHYLNAPHTHALENE	20	6.2	11 U	10 U
2-METHYLPHENOL	35	1800	11 U	10 U
4-METHYLPHENOL	4	180	11 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	4.8	11 U	10 U
DI-N-BUTYL PHTHALATE	700	3600	11 U	0.9 J
DIETHYL PHTHALATE	5600	29000	11 U	10 U
FLUORENE	280	240	11 U	10 U
NAPHTHALENE	20	6.2	11 U	10 U
PHENANTHRENE	210	180	11 U	10 U

Notes:
Bold values exceed GCTLs
GCTL = Groundwater Cleanup Target Level
PRGs = Preliminary Remedial Goals
U = Less than Laboratory Detection Limit
J = Estimated value
NA = Not analyzed

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR PHASE I VOC/SVOC GROUNDWATER EXCEEDANCES 5/11/07 SP



DRAWN BY	DATE
J. LAMEY	7/28/03
CHECKED BY	DATE
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

VOC/SVOC CONCENTRATIONS EXCEEDING
FDEP GCTLs IN PHASE I GROUNDWATER SAMPLES
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	3966
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 9
REV.	0

cis-DCE, PCE, and naphthalene) were reported at concentrations exceeding GCTLs in samples collected from MW04, located approximately 50 ft southeast of the former DVECC tank. Other than the 10 constituents listed above for MW01S, vinyl chloride was also reported at levels slightly exceeding its GCTL of 1 µg/L in three shallow grab samples collected in the vicinity of the former DVECC tank location during the DPT program.

Grab samples were collected from eight DPT borings located in and around the former DVECC tank and analyzed for constituents in the mobile laboratory's "hydrocarbon short list". Generally, targeted constituents were identified in samples collected within and to the south and southeast of the network of permanent wells and were absent in samples to the southwest (SB05), northwest (SB33) and north (SB29 and -30) of the former DVECC tank location (Please refer to Figure 5-9). The identity and location of the highest concentrations of the 11 hydrocarbon compounds identified in the southern plume are as follows:

- Benzene, 1-methylnaphthalene, and 2-methylnaphthalene in MW01S (as detailed above).

- Toluene (67 µg/L), ethylbenzene (140 µg/L), total xylenes (2,330 µg/L), PCE (23 µg/L), and naphthalene (150 µg/L) in MW04S, approximately 50 ft southeast of the former DVECC tank.

- Cis-DCE (600 µg/L) in a sample collected 10-14 ft bls from DPT boring SB06 in center of former DVECC tank excavation.

- TCE (13 µg/L) in a sample collected 20-24 ft bls from DPT boring SB57, located approximately 45 ft east-southeast of the former tank location.

- Vinyl chloride (4 µg/L) (estimated) in SB57 (8-12 ft bls) and SB06 (10-14 ft bls).

The absence of constituents in samples collected from borings SB33, SB29, and SB30 provides strong evidence that the southern and northern plumes are separate entities originating from different source areas.

- Four petroleum hydrocarbons (benzene, ethylbenzene, total xylenes, and isopropylbenzene) and one chlorinated hydrocarbon (TCE) were identified at elevated levels in the northern plume area near the central portion of the Pesticide Shop. Two or more GCTL exceedances were reported in four shallow DPT samples (8 to 12 ft bls), three collected south of the Pesticide Shop (SB13, SB47, and SB48) and one north of the Pesticide Shop (SB43). Each of the five constituents listed above was reported at concentrations exceeding GCTLs in the northernmost sample, SB43. Four exceedances were

reported in SB47, located approximately 55 ft southeast of SB43. Three GCTL exceedances were reported in SB13 and two in SB48. Highest concentrations of the individual constituents were reported as follows: benzene (7 µg/L) and TCE (86 µg/L) in SB43; and ethylbenzene (110 µg/L), total xylenes (65 µg/L), and isopropylbenzene (26 µg/L) in SB47. Samples from an intermediate interval (20 to 24 ft bls) were also collected and analyzed for the hydrocarbon COCs at these four locations and no exceedances were reported.

Since the location of the former eastern soakage pit near the southeast corner of the Pesticide Shop was considered another potential source area of VOC/SVOC contamination, based upon previous analytical data and site historical operations, DPT grab samples were collected from four borings advanced in this area including one (SB18) which penetrated the former soakage pit itself. Shallow, intermediate, and deep samples from three of the four DPT borings (including SB18) were analyzed for hydrocarbon COCs. A sample collected from HLA's shallow microwell (MW03), located approximately 50 ft southeast of the former soakage pit location, was also analyzed for these constituents. Benzene was identified at a concentration of 2.8 µg/L in the shallow SB18 (soakage pit) sample (8 to 12 ft bls). This was the only VOC or SVOC GCTL exceedance reported in the area.

Evidence also exists that hydrocarbon compounds are present at concentrations exceeding GCTLs in the outlying area south (upgradient) of the DVECC source area where pesticide contamination was discovered, as noted in the previous section. Of the three DPT locations in this area where groundwater grab samples were analyzed for pesticides (SB37, SB38, and SB58), only samples from the shallow interval of SB37 (8-12 ft bls) were analyzed for VOCs. As shown on Figure 5-9, GCTL exceedances reported in this sample were primarily chlorinated solvents, most notably cis-1,2-DCE at a concentration of 390 µg/L and PCE at a concentration of 6 µg/L. Other GCTL exceedances reported in this sample were all "J", or estimated values: benzene and TCE (3 µg/L) and vinyl chloride (2 µg/L).

5.3.2.1.3 TCL Herbicides

It was determined during the DQO process that approximately 10 percent of the groundwater grab samples collected by DPT during Phase I would be sent to a fixed-base laboratory for analysis of TCL herbicides. Several of these compounds had been identified at elevated concentrations in soil and/or groundwater samples in pre-RI investigations (BRE, 1997 and HLA, 1999).

Ten (10) groundwater samples (six shallow, one intermediate, and three deep) were analyzed for TCL herbicides during the Phase I investigation. Half of the analyzed samples were collected in the southern portion of the site near Building 937, and the other half were collected around Building 536. None of the 12 compounds included in the list of TCL herbicides was reported at a concentration exceeding its GCTL,

although some were reported at concentrations exceeding laboratory detection limits. A summary of these detections is provided in Table 5-7.

5.3.2.1.4 Dioxins

Four groundwater samples from the DVECC area (three shallow and one deep) were analyzed for dioxins. Dioxins are reported in picograms per liter (pg/L) or parts per trillion. Seventeen (17) complexes of dibenzodioxins and dibenzofurans, with specific numerical molecular structures, are included in laboratory analyses of "dioxins". At least one compound was identified in each of the four samples at concentrations exceeding reporting limits: one in SB06 (10-14 ft), three in SB38 (8 to 12 ft), six in SB05 (5 to 9 ft), and seven in SB33 (28 to 32 ft). A list showing concentrations of detected dioxin complexes is included in Table 5-7.

5.3.2.1.5 OP Pesticides

Since there was documented historical usage of malathion at the site, the NAS Jacksonville Partnering Team requested that 10 percent of the groundwater grab samples collected by DPT during Phase I be sent to a fixed-base laboratory for analysis of OP pesticides. Consequently, nine groundwater samples (five shallow, one intermediate, and three deep) were analyzed for these constituents. Nineteen (19) compounds are included in this group of analytes and none were detected.

5.3.2.1.6 PCBs

Two shallow groundwater samples, one collected southeast of the former DVECC tank location (SB03) and another collected southwest of the former DVECC tank location (SB05), were analyzed for PCBs. Although PCBs had not been reported at elevated concentrations during previous site investigations, the NAS Jacksonville Partnering Team requested that two samples from locations considered most likely to be impacted by PCBs be analyzed for these compounds. Samples from SB03 and SB05 were selected because of their proximity to the DVECC tank. No PCBs were detected. The reporting limit for each aroclor congener (0.5 µg/L) was equal to the GCTL.

5.3.2.2 Permanent Monitoring Well Groundwater Analytical Results (Phase II and Phase III)

5.3.2.2.1 TCL Pesticides

Detected TCL pesticide concentrations in samples collected from the permanent monitoring well network during Phase II and III groundwater sampling activities are listed in Table 5-8 and validated laboratory reports are provided in Appendix J. Groundwater pesticide concentrations exceeding FDEP GCTLs during Phase II (2002/2003) and Phase III (2006/2007) are shown on Figure 5-10.

Table 5-7
Summary of Detected Dioxins and Herbicides in Groundwater-Phase I

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 1

LOCATION SAMPLE NUMBER SAMPLE DATE	FDEP GCTLs	REGION 9 PRGs	JAX47-SB03 JAX47-SB03-G08-070501 7/5/2001	JAX47-SB05 JAX47-SB05-G05-070601 7/6/2001	JAX47-SB06 JAX47-SB06-G10-070601 7/6/2001	JAX47-SB07 JAX47-SB07-G20-070501 7/5/2001	JAX47-SB13 JAX47-SB13-G08-070601 7/6/2001
Herbicides (ug/L)							
2,4-D	70	360	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
DICAMBA	210	1100	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
DICHLOROPROP	35	NL	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	0.54 R
DINOSEB	7	36	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
MCPA	3.5	18	100 UR	100 UR	100 UR	100 UJ	100 J
PENTACHLOROPHENOL	1	0.56	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.2 J
Dioxins/Furans (pg/L)							
1,2,3,4,6,7,8,9-OCDD	NL*	NL*	NA	81.44	26.97 U	NA	NA
1,2,3,4,6,7,8-HPCDD	NL*	NL*	NA	8.408	3.514 U	NA	NA
1,2,3,7,8,9-HXCDD	NL*	NL*	NA	1.044 U	0.987 U	NA	NA
TOTAL HPCDD	NL*	NL*	NA	22.33	9.056 U	NA	NA
TOTAL HXCDD	NL*	NL*	NA	14.95	0.968 U	NA	NA
TOTAL PECDD	NL*	NL*	NA	5.152	0.966 U	NA	NA
TOTAL TCDD	NL*	NL*	NA	3.580	13.01	NA	NA

LOCATION SAMPLE NUMBER SAMPLE DATE	FDEP GCTLs	REGION 9 PRGs	JAX47-SB18 JAX47-SB18-G32-070601 7/6/2001	JAX47-SB28 JAX47-SB28-G10-070601 7/6/2001	JAX47-SB32 JAX47-SB32-G36-070601 7/6/2001	JAX47-SB33 JAX47-SB33-G28-070601 7/6/2001	JAX47-SB38 JAX47-SB38-G08-070501 7/5/2001
Herbicides (ug/L)							
2,4-D	70	360	2.5 UJ	2.5 UJ	2.5 UJ	2.2 J	25 J
DICAMBA	210	1100	1 UJ	0.36 J	1 UJ	1 UJ	1 UJ
DICHLOROPROP	35	NL	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.6 J
DINOSEB	7	36	1 UJ	1 UJ	1 UJ	1.5 J	6.7 J
MCPA	3.5	18	100 UR	100 UR	100 UR	100 UR	100 UR
PENTACHLOROPHENOL	1	0.56	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Dioxins/Furans (pg/L)							
1,2,3,4,6,7,8,9-OCDD	NL*	NL*	NA	NA	NA	251.9	422.2
1,2,3,4,6,7,8-HPCDD	NL*	NL*	NA	NA	NA	61.91	17.31 U
1,2,3,7,8,9-HXCDD	NL*	NL*	NA	NA	NA	14.59	1.079 U
TOTAL HPCDD	NL*	NL*	NA	NA	NA	147.5	27.44
TOTAL HXCDD	NL*	NL*	NA	NA	NA	218.7	13.09
TOTAL PECDD	NL*	NL*	NA	NA	NA	107.7	1.200 U
TOTAL TCDD	NL*	NL*	NA	NA	NA	138.0	2.309 U

Notes:
* The EPA and FDEP criteria is for 2,3,7,8-TCDD.
NA - Not analyzed
NL - Not listed
U - Less than laboratory Detection Limit
J - Estimated
R - Rejected

Table 5-8
Summary of Detected Pesticide Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 5

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-536-MW03 536-MW03-040902 04/09/02	JAX47-937-MW01S 937-MW01S-041102 04/11/02	JAX47-937-MW01S 937-MW01S-041102-D 04/11/02	JAX47-937-MW01S 937-MW01S-112906 11/29/06	JAX47-937-MW02S 937-MW02S-041002 04/09/02	JAX47-937-MW02S 937-MW02S-113006 11/30/06	JAX47-937-MW03S 937-MW03S-041102 04/11/02	JAX47-937-MW03S 937-MW03S-072505 07/25/05
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	**48 [G]**	0.10 U	0.10 U	0.0004 U	0.10 U	0.071 J	**20 [G]**	**34.5 [G]**
4,4'-DDE	0.1	0.2	**0.92 J [G]**	0.10 U	0.10 U	0.002 U	0.10 U	0.033 J	**0.15 J [G]**	0.97 U
4,4'-DDT	0.1	0.2	2.3 U	0.10 U	0.10 U	0.002 U	0.10 U	0.002 U	**5.7 [G]**	0.97 U
ALDRIN	0.002	0.004	1.2 U	0.05 U	0.05 U	0.002 U	0.05 U	**3.5 J [G]**	0.47 U	0.97 U
ALPHA-BHC	0.006	0.011	**4.2 [G]**	0.05 UJ	**0.11 J [G]**	0.004 J	0.05 U	0.001 U	**2.4 [G]**	**5.3 [G]**
ALPHA-CHLORDANE	2	0.19	1.2 U	0.05 U	0.05 U	0.005 J	0.05 U	0.27 J	0.47 U	0.49 U
BETA-BHC	0.02	0.037	1.2 U	0.05 U	0.05 U	0.002 U	0.05 U	**0.097 J [G]**	**1.2 [G]**	**3.6 [G]**
DELTA-BHC	2.1	0.011	**4.6 [G]**	0.05 U	0.05 U	0.02 J	0.05 U	0.42 J	**3.6 [G]**	**7.1 [G]**
DIELDRIN	0.002	0.0042	2.3 U	0.10 U	0.10 U	**0.003 J [G]**	0.10 U	0.0008 U	**0.83 J [G]**	**1.8 I [G]**
ENDOSULFAN I	NC	220	1.2 U	0.05 U	0.05 U	0.002 U	0.05 U	0.002 U	0.47 U	0.49 U
ENDOSULFAN II	NC	220	2.3 U	0.10 U	0.10 U	0.002 U	0.10 U	0.002 U	0.94 U	0.97 U
ENDOSULFAN SULFATE	NC	220	2.3 U	0.10 U	0.10 U	0.072 J	0.10 U	0.045 J	0.94 U	0.97 U
ENDRIN	2	11	2.3 U	0.10 U	0.10 U	0.002 J	0.10 U	0.002 UJ	0.94 U	1.9 U
ENDRIN ALDEHYDE	NC	11	2.3 U	0.10 U	0.10 U	0.009 U	0.10 U	0.009 U	0.94 U	1.9 U
ENDRIN KETONE	NC	11	2.3 U	0.10 U	0.10 U	0.003 U	0.10 U	4.7 J	0.94 U	0.97 U
GAMMA-BHC (LINDANE)	0.2	0.052	1.2 U	0.05 U	0.05 U	0.002 UJ	0.05 U	0.007 J	**6.1 [G]**	**12.6 [G]**
GAMMA-CHLORDANE	2	0.19	1.2 U	0.05 U	0.05 U	0.001 U	0.05 U	0.001 UJ	0.47 U	0.49 U
HEPTACHLOR	0.4	0.015	1.2 U	0.05 U	0.05 U	0.013 J	0.05 U	0.001 U	0.47 U	0.97 U
HEPTACHLOR EPOXIDE	0.2	0.0074	1.2 U	0.05 U	0.05 U	0.001 U	0.05 U	0.001 U	0.47 U	0.49 U
METHOXYCHLOR	40	180	12 U	0.50 U	0.50 U	0.075 J	0.50 U	0.003 U	4.7 U	1.9 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-937-MW03S 937-MW03S-112906 11/29/06	JAX47-937-MW04S 937-MW04S-041102 04/11/02	JAX47-937-MW04S 937-MW04S-120106 12/01/06	JAX47-937-MW05S 937-MW05S-041002 04/09/02	JAX47-937-MW05S 937-MW05S-112906 11/29/06	JAX47-937-MW06D 937-MW06D-041102 04/11/02	JAX47-937-MW06D 937-MW06D-113006 11/30/06	JAX47-MW10S MW10S-040902 04/09/02
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	**13 J [G]**	1 U	**8.2 [G]**	**0.13 [G]**	0.076 J	0.10 U	0.0004 U	0.10 U
4,4'-DDE	0.1	0.2	0.094 J	1 U	0.056	0.10 U	**0.13 J [G]**	0.10 U	0.002 U	0.10 U
4,4'-DDT	0.1	0.2	0.013 J	1 U	0.002 U	0.10 U	0.002 U	0.10 U	0.002 U	0.10 U
ALDRIN	0.002	0.004	**2.6 J [G]**	0.50 U	**2.6 J [G]**	0.05 U	**3.8 J [G]**	0.05 U	0.002 U	0.05 U
ALPHA-BHC	0.006	0.011	**0.64 J [G]**	0.50 U	**0.45 [G]**	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U
ALPHA-CHLORDANE	2	0.19	0.14 J	0.50 U	0.001 U	0.054	0.58 J	0.05 U	0.001 U	0.05 U
BETA-BHC	0.02	0.037	**1.1 J [G]**	0.50 U	**3.9 J [G]**	0.05 U	0.002 U	0.05 U	0.002 U	0.05 U
DELTA-BHC	2.1	0.011	1.1 J	0.50 U	0.64	0.05 U	**4 J [G]**	0.05 U	0.001 U	0.05 U
DIELDRIN	0.002	0.0042	**0.32 J [G]**	1 U	**0.19 J [G]**	0.10 U	**0.018 J [G]**	0.10 U	0.0008 U	0.10 U
ENDOSULFAN I	NC	220	0.002 U	0.50 U	0.002 U	0.05 U	0.002 U	0.05 U	0.002 U	0.05 U
ENDOSULFAN II	NC	220	0.002 U	1 U	0.002 U	0.10 U	0.002 U	0.10 U	0.002 U	0.10 U
ENDOSULFAN SULFATE	NC	220	0.009 J	1 U	0.009 J	0.10 U	0.21 J	0.10 U	0.002 U	0.10 U
ENDRIN	2	11	0.002 U	1 U	0.008 J	0.10 U	0.044 J	0.10 U	0.002 UJ	0.10 U
ENDRIN ALDEHYDE	NC	11	0.009 U	1 U	0.009 U	0.10 U	0.009 U	0.10 U	0.009 U	0.10 U
ENDRIN KETONE	NC	11	0.23 J	1 U	0.18	0.10 U	1 J	0.10 U	0.004 J	0.10 U
GAMMA-BHC (LINDANE)	0.2	0.052	**1.1 J [G]**	0.50 U	**0.66 [G]**	0.05 U	0.058 J	0.05 U	0.002 U	0.05 U
GAMMA-CHLORDANE	2	0.19	0.001 U	0.50 U	0.001 U	0.05 U	0.039 J	0.05 U	0.001 UJ	0.05 U
HEPTACHLOR	0.4	0.015	0.018 J	0.50 U	0.001 U	0.05 U	0.029 J	0.05 U	0.001 U	0.05 U
HEPTACHLOR EPOXIDE	0.2	0.0074	0.036 J	0.50 U	0.02 J	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U
METHOXYCHLOR	40	180	0.025 J	5 U	0.003 UJ	0.50 U	1.1 J	0.50 U	0.003 U	0.50 U

Table 5-8
Summary of Detected Pesticide Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW10S MW10S-113006 11/30/06	JAX47-MW11D MW11D-040402 04/04/02	JAX47-MW11D MW11D-120106 12/01/06	JAX47-MW11S MW11S-040402 04/04/02	JAX47-MW11S MW11S-120106 12/01/06	JAX47-MW12S MW12S-041002 04/10/02	JAX47-MW12S MW12S-120806 12/08/06	JAX47-MW13D MW13D-040402 04/04/02
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	0.0004 U	0.10 U	0.0004 U	0.48 U	0.0004 U	0.10 U	0.0004 U	**1.9 [G]**
4,4'-DDE	0.1	0.2	0.002 U	0.10 U	0.002 U	0.48 U	0.002 U	0.10 U	0.056 J	0.10 U
4,4'-DDT	0.1	0.2	0.002 U	0.10 U	0.003 J	0.48 U	0.007 J	0.10 U	0.002 U	**0.17 [G]**
ALDRIN	0.002	0.004	0.002 U	0.05 U	0.002 U	0.24 U	**0.11 J [G]**	0.05 U	0.002 U	0.05 U
ALPHA-BHC	0.006	0.011	0.001 U	0.05 U	0.001 U	**4.8 [G]**	**9.3 [G]**	0.05 U	**1.1 J [G]**	**0.057 [G]**
ALPHA-CHLORDANE	2	0.19	0.001 U	0.05 U	0.001 U	0.24 U	0.001 U	0.05 U	0.44 J	0.05 U
BETA-BHC	0.02	0.037	0.002 U	0.05 U	0.002 U	**1.7 [G]**	**1.2 [G]**	**1.3 [G]**	**0.7 J [G]**	0.05 U
DELTA-BHC	2.1	0.011	0.001 U	0.05 U	0.001 U	**4.2 [G]**	**8.3 [G]**	0.05 U	0.015 J	0.071
DIELDRIN	0.002	0.0042	0.0008 U	0.10 U	0.0008 U	0.48 U	**0.033 J [G]**	**0.023 J [G]**	**0.15 J [G]**	0.10 U
ENDOSULFAN I	NC	220	0.002 U	0.05 U	0.002 U	0.24 U	0.002 U	0.05 U	0.002 U	0.05 U
ENDOSULFAN II	NC	220	0.002 U	0.10 U	0.002 U	0.48 U	0.023 J	0.10 U	0.032 J	0.10 U
ENDOSULFAN SULFATE	NC	220	0.002 U	0.10 U	0.01 J	0.48 U	0.007 J	0.10 U	0.002 U	0.10 U
ENDRIN	2	11	0.002 UJ	0.10 U	0.002 U	0.48 U	0.021 J	0.10 U	0.002 U	0.10 U
ENDRIN ALDEHYDE	NC	11	0.009 U	0.10 U	0.009 U	0.48 U	0.009 U	0.10 U	0.009 U	0.10 U
ENDRIN KETONE	NC	11	0.003 UJ	0.10 U	0.003 U	0.48 U	0.003 U	0.10 U	0.027 J	0.10 U
GAMMA-BHC (LINDANE)	0.2	0.052	0.002 U	0.05 U	0.002 U	**8.4 [G]**	**15 [G]**	0.05 U	0.11 J	0.05 U
GAMMA-CHLORDANE	2	0.19	0.001 UJ	0.05 U	0.001 U	0.24 U	0.035 J	0.014 J	0.016 J	0.05 U
HEPTACHLOR	0.4	0.015	0.001 U	0.05 U	0.001 U	0.24 U	0.001 U	0.05 U	0.001 U	0.05 U
HEPTACHLOR EPOXIDE	0.2	0.0074	0.001 U	0.05 U	0.001 U	0.24 U	0.001 U	0.05 U	0.081 J	0.05 U
METHOXYCHLOR	40	180	0.003 U	0.50 U	0.003 UJ	2.4 U	1.1 J	0.50 U	0.003 UJ	0.50 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW13D MW13D-120106 12/01/06	JAX47-MW13S MW13S-040402 04/04/02	JAX47-MW13S MW13S-072505 07/25/05	JAX47-MW13S MW13S-120106 12/01/06	JAX47-MW13S MW13S-120106-D 12/01/06	JAX47-MW14D MW14D-041002 04/10/02	JAX47-MW14D MW14D-041002-D 04/10/02	JAX47-MW14D MW14D-120106 12/01/06
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	**0.31 [G]**	**3.1 [G]**	**3.4 [G]**	**0.69 [G]**	**0.54 [G]**	0.10 U	0.10 U	0.0004 U
4,4'-DDE	0.1	0.2	0.003 J	0.96 U	0.20 U	0.004 J	0.002 U	0.10 U	0.10 U	0.003 J
4,4'-DDT	0.1	0.2	0.002 U	**1.5 [G]**	**1.7 [G]**	**0.49 [G]**	**0.38 [G]**	0.10 U	0.10 U	0.003 J
ALDRIN	0.002	0.004	0.002 U	0.48 U	0.20 U	**0.011 J [G]**	**0.01 J [G]**	0.05 U	0.05 U	0.002 U
ALPHA-BHC	0.006	0.011	0.001 U	**14 [G]**	**1.2 [G]**	**2.7 [G]**	**2 [G]**	0.05 U	0.05 U	0.003 J
ALPHA-CHLORDANE	2	0.19	0.001 U	0.48 U	0.78	0.28 J	0.16 J	0.05 U	0.05 U	0.002 J
BETA-BHC	0.02	0.037	0.002 U	**1.2 [G]**	**0.38 I [G]**	**0.32 [G]**	**0.28 [G]**	0.05 U	0.05 U	0.002 U
DELTA-BHC	2.1	0.011	0.001 U	**10 [G]**	0.84	**2.3 [G]**	1.7	0.05 U	0.05 U	0.026 J
DIELDRIN	0.002	0.0042	0.0008 U	0.96 U	**0.32 I [G]**	**0.036 J [G]**	**0.038 J [G]**	0.10 U	0.10 U	0.0008 U
ENDOSULFAN I	NC	220	0.002 U	0.48 U	0.098 U	0.011 J	0.002 U	0.05 U	0.05 U	0.002 U
ENDOSULFAN II	NC	220	0.002 U	0.96 U	0.20 U	0.008 J	0.007 J	0.10 U	0.10 U	0.002 U
ENDOSULFAN SULFATE	NC	220	0.002 U	0.96 U	0.20 U	0.006 J	0.002 U	0.10 U	0.10 U	0.002 U
ENDRIN	2	11	0.002 U	0.96 U	0.39 U	0.025 J	0.021 J	0.10 U	0.10 U	0.002 U
ENDRIN ALDEHYDE	NC	11	0.009 U	0.96 U	0.39 U	0.021 J	0.011 J	0.10 U	0.10 U	0.009 U
ENDRIN KETONE	NC	11	0.003 UJ	0.96 U	0.20 U	0.017 J	0.006 J	0.10 U	0.10 U	0.019 J
GAMMA-BHC (LINDANE)	0.2	0.052	0.002 U	**22 [G]**	**1.1 [G]**	**3.3 [G]**	**2.5 [G]**	0.05 U	0.05 U	0.002 J
GAMMA-CHLORDANE	2	0.19	0.001 U	0.48 U	0.90	0.32	0.25	0.05 U	0.05 U	0.001 U
HEPTACHLOR	0.4	0.015	0.001 U	0.48 U	0.20 U	0.028 J	0.001 U	0.05 U	0.05 U	0.002 J
HEPTACHLOR EPOXIDE	0.2	0.0074	0.001 U	0.48 U	0.12 I	0.082 J	0.073 J	0.05 U	0.05 U	0.001 U
METHOXYCHLOR	40	180	0.003 U	4.8 U	0.39 U	0.011 J	0.003 U	0.50 U	0.50 U	0.003 UJ

Table 5-8
Summary of Detected Pesticide Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW14S MW14S-120806 12/08/06	JAX47-MW15D MW15D-040802 04/08/02	JAX47-MW15D MW15D-112906 11/29/06	JAX47-MW15S MW15S-040802 04/08/02	JAX47-MW15S MW15S-040802-D 04/08/02	JAX47-MW15S MW15S-112906 11/29/06	JAX47-MW16D MW16D-040502 04/05/02	JAX47-MW16D MW16D-120506 12/05/06
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	0.0004 U	0.10 U	0.0004 U	0.10 U	0.10 U	0.0004 U	0.10 U	0.0004 U
4,4'-DDE	0.1	0.2	0.002 U	0.10 U	0.002 U	0.10 U	0.10 U	0.002 J	0.10 U	0.002 U
4,4'-DDT	0.1	0.2	0.002 U	0.10 U	0.002 U	0.10 U	0.10 U	0.002 U	0.10 U	0.002 U
ALDRIN	0.002	0.004	0.002 U	0.05 U	0.002 U	0.05 U	0.05 U	0.002 U	0.05 U	0.002 U
ALPHA-BHC	0.006	0.011	0.001 U	0.05 U	0.001 U	0.05 U	0.05 U	0.001 U	0.05 U	0.001 U
ALPHA-CHLORDANE	2	0.19	0.055 J	0.05 U	0.001 U	0.05 U	0.05 U	0.001 U	0.05 U	0.001 U
BETA-BHC	0.02	0.037	0.002 U	0.05 U	0.002 U	0.05 U	0.05 U	0.002 U	0.05 U	0.002 U
DELTA-BHC	2.1	0.011	0.001 U	0.05 U	0.002 J	0.05 U	0.05 U	0.001 U	0.05 U	0.003 J
DIELDRIN	0.002	0.0042	**0.003 J [G]**	0.10 U	0.0008 U	0.10 U	0.10 U	0.0008 U	0.10 U	0.0008 U
ENDOSULFAN I	NC	220	0.002 U	0.05 U	0.002 U	0.05 U	0.05 U	0.002 U	0.05 U	0.002 U
ENDOSULFAN II	NC	220	0.002 U	0.10 U	0.002 U	0.10 U	0.10 U	0.002 U	0.10 U	0.002 U
ENDOSULFAN SULFATE	NC	220	0.002 U	0.10 U	0.002 U	0.10 U	0.10 U	0.002 U	0.10 U	0.002 U
ENDRIN	2	11	0.002 U	0.10 U	0.002 U	0.10 U	0.10 U	0.002 U	0.10 U	0.002 U
ENDRIN ALDEHYDE	NC	11	0.009 U	0.10 U	0.009 U	0.10 U	0.10 U	0.009 U	0.10 U	0.009 U
ENDRIN KETONE	NC	11	0.01 J	0.10 U	0.003 U	0.10 U	0.10 U	0.003 U	0.10 U	0.003 UJ
GAMMA-BHC (LINDANE)	0.2	0.052	0.002 U	0.05 U	0.002 U	0.05 U	0.05 U	0.002 U	0.05 U	0.002 U
GAMMA-CHLORDANE	2	0.19	0.017 J	0.05 U	0.001 U	0.05 U	0.05 U	0.001 U	0.05 U	0.001 U
HEPTACHLOR	0.4	0.015	0.001 U	0.05 U	0.001 U	0.05 U	0.05 U	0.001 U	0.05 U	0.007 J
HEPTACHLOR EPOXIDE	0.2	0.0074	**0.62 J [G]**	0.05 U	0.001 U	0.05 U	0.05 U	0.001 U	0.05 U	0.001 U
METHOXYCHLOR	40	180	0.003 UJ	0.50 U	0.003 U	0.50 U	0.50 U	0.003 U	0.50 U	0.003 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW16S MW16S-040502 04/05/02	JAX47-MW16S MW16S-120506 12/05/06	JAX47-MW17D MW17D-040402 04/04/02	JAX47-MW17D MW17D-120506 12/05/06	JAX47-MW17S MW17S-040402 04/04/02	JAX47-MW17S MW17S-120506 12/05/06	JAX47-MW18D MW18D-040502 04/05/02	JAX47-MW18D MW18D-113006 11/30/06
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	0.10 U	0.0004 U	**0.26 [G]**	0.094	**6.5 [G]**	**25 J [G]**	0.10 U	0.0004 U
4,4'-DDE	0.1	0.2	0.10 U	0.002 U	0.10 U	0.002 U	0.48 U	0.036 J	0.10 U	0.002 U
4,4'-DDT	0.1	0.2	0.10 U	0.002 U	0.052 J	0.002 U	**1.1 [G]**	0.015 J	0.10 U	0.002 U
ALDRIN	0.002	0.004	0.05 U	0.002 U	0.05 U	0.002 U	0.24 U	**0.01 J [G]**	0.05 U	0.002 U
ALPHA-BHC	0.006	0.011	0.05 U	0.001 U	0.05 U	0.001 U	0.24 U	0.002 UJ	0.05 U	0.001 U
ALPHA-CHLORDANE	2	0.19	0.05 U	0.001 U	0.15	0.039 J	**4 [G]**	1.8	0.05 U	0.001 U
BETA-BHC	0.02	0.037	0.05 U	0.002 U	0.05 U	**0.089 [G]**	0.24 U	0.002 U	0.05 U	0.002 U
DELTA-BHC	2.1	0.011	0.05 U	0.001 U	0.05 U	0.031 J	0.24 U	0.032 J	0.05 U	0.001 U
DIELDRIN	0.002	0.0042	0.10 U	0.0008 U	0.10 U	0.0008 U	0.48 U	**0.036 J [G]**	0.10 U	0.0008 U
ENDOSULFAN I	NC	220	0.05 U	0.002 U	0.05 U	0.002 U	0.24 U	0.077	0.05 U	0.002 U
ENDOSULFAN II	NC	220	0.10 U	0.002 U	0.10 U	0.002 U	0.48 U	0.037 J	0.10 U	0.002 U
ENDOSULFAN SULFATE	NC	220	0.10 U	0.002 U	0.10 U	0.005 J	0.48 U	0.017 J	0.10 U	0.002 U
ENDRIN	2	11	0.10 U	0.002 U	0.10 U	0.002 U	0.48 U	0.005 J	0.10 U	0.002 UJ
ENDRIN ALDEHYDE	NC	11	0.10 U	0.009 U	0.10 U	0.009 U	0.48 U	0.009 U	0.10 U	0.009 U
ENDRIN KETONE	NC	11	0.10 U	0.003 UJ	0.10 U	0.003 UJ	0.48 U	0.009 J	0.10 U	0.003 UJ
GAMMA-BHC (LINDANE)	0.2	0.052	0.05 U	0.002 U	0.05 U	0.002 U	0.24 U	0.002 U	0.05 U	0.002 U
GAMMA-CHLORDANE	2	0.19	0.05 U	0.001 U	0.10	0.042 J	0.24 U	1.1	0.05 U	0.001 UJ
HEPTACHLOR	0.4	0.015	0.05 U	0.001 U	0.05 U	0.22	**0.60 [G]**	0.03 J	0.05 U	0.001 U
HEPTACHLOR EPOXIDE	0.2	0.0074	0.05 U	0.001 U	0.05 U	0.001 U	0.24 U	0.001 U	0.05 U	0.001 U
METHOXYCHLOR	40	180	0.50 U	0.003 U	0.50 U	0.003 U	2.4 U	0.003 U	0.50 U	0.003 U

Table 5-8
Summary of Detected Pesticide Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW18S MW18S-040502 04/05/02	JAX47-MW18S MW18S-113006 11/30/06	JAX47-MW19S MW19S-041202 04/12/02	JAX47-MW19S MW19S-120506 12/05/06	JAX47-MW20S MW20S-040902 04/09/02	JAX47-MW20S MW20S-113006 11/30/06	JAX47-MW21S MW21S-110602 11/06/02	JAX47-MW22D MW22D-110602 11/06/02
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	0.10 U	0.0004 U	0.10 U	0.0004 U	0.10 U	0.0004 U	0.10 UJ	0.10 UJ
4,4'-DDE	0.1	0.2	0.10 U	0.002 U	0.10 U	0.002 U	0.10 U	0.002 U	0.10 UJ	0.10 UJ
4,4'-DDT	0.1	0.2	0.10 U	0.002 U	0.10 U	0.002 U	0.10 U	0.002 U	0.10 UJ	0.10 UJ
ALDRIN	0.002	0.004	0.05 U	0.002 U	0.05 U	0.002 U	0.05 U	0.002 U	0.05 U	0.05 U
ALPHA-BHC	0.006	0.011	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U	0.05 U
ALPHA-CHLORDANE	2	0.19	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U	0.05 U
BETA-BHC	0.02	0.037	0.05 U	0.002 U	0.05 U	0.002 U	0.05 U	0.009 J	0.05 U	0.05 U
DELTA-BHC	2.1	0.011	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U	0.001 U	0.05 UJ	0.05 UJ
DIELDRIN	0.002	0.0042	0.10 U	0.0008 U	0.10 U	0.0008 U	0.10 U	**0.047 J [G]**	0.10 U	0.10 U
ENDOSULFAN I	NC	220	0.05 U	0.002 U	0.05 U	0.002 U	0.05 U	0.002 U	0.05 U	0.05 U
ENDOSULFAN II	NC	220	0.10 U	0.002 U	0.10 U	0.002 U	0.10 U	0.003 J	0.10 U	0.10 U
ENDOSULFAN SULFATE	NC	220	0.10 U	0.002 U	0.10 U	0.002 U	0.10 U	0.002 U	0.10 UJ	0.10 UJ
ENDRIN	2	11	0.10 U	0.002 UJ	0.10 U	0.002 U	0.10 U	0.002 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	NC	11	0.10 U	0.009 U	0.10 U	0.009 U	0.10 U	0.009 U	0.10 U	0.10 U
ENDRIN KETONE	NC	11	0.10 U	0.003 UJ	0.10 U	0.003 UJ	0.10 U	0.003 UJ	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.2	0.052	0.05 U	0.002 U	0.05 U	0.002 U	0.05 U	0.002 U	0.05 UJ	0.05 UJ
GAMMA-CHLORDANE	2	0.19	0.05 U	0.001 UJ	0.05 U	0.001 U	0.05 U	0.016 J	0.05 U	0.05 U
HEPTACHLOR	0.4	0.015	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	0.2	0.0074	0.05 U	0.001 U	0.05 U	0.001 U	0.05 U	0.004 J	0.05 U	0.05 U
METHOXYCHLOR	40	180	0.50 U	0.003 U	0.50 U	0.003 U	0.50 U	0.003 U	0.50 U	0.50 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW23S MW23S-110602 11/07/02	JAX47-MW23S MW23S-120506 12/05/06	JAX47-MW24D MW24D-111202 11/12/02	JAX47-MW24D MW24D-120506 12/05/06	JAX47-MW25S MW25S-110602 11/07/02	JAX47-MW25S MW25S-120806 12/08/06	JAX47-MW26S MW26S-012003 01/20/03	JAX47-MW26S MW26S-120806 12/08/06
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	0.10 UJ	0.0004 U	0.10 U	0.0004 U	1 U	0.0004 U	0.10 U	0.0004 U
4,4'-DDE	0.1	0.2	0.10 UJ	0.002 U	0.10 U	0.002 U	1 U	0.002 U	0.10 U	0.002 U
4,4'-DDT	0.1	0.2	0.10 UJ	0.002 U	0.10 U	0.002 U	1 U	0.003 U	0.10 U	0.01 J
ALDRIN	0.002	0.004	0.053 U	0.002 U	0.05 U	0.002 U	0.50 U	0.002 U	0.05 U	0.002 U
ALPHA-BHC	0.006	0.011	0.053 U	0.001 U	0.05 U	0.001 U	**5.9 [G]**	**3.4 [G]**	0.05 U	0.001 U
ALPHA-CHLORDANE	2	0.19	0.053 U	0.001 U	0.05 U	0.001 U	0.50 U	0.032 J	0.05 U	0.001 U
BETA-BHC	0.02	0.037	0.053 U	0.002 U	0.05 U	0.002 U	**2.8 [G]**	**1.8 J [G]**	0.05 U	0.002 U
DELTA-BHC	2.1	0.011	0.053 UJ	0.001 U	0.05 U	0.001 U	**5.6 [G]**	**3.6 [G]**	0.05 U	0.001 U
DIELDRIN	0.002	0.0042	0.10 U	0.0008 U	0.10 U	0.0008 U	1 U	0.0008 U	0.10 U	0.0008 U
ENDOSULFAN I	NC	220	0.053 U	0.002 U	0.05 U	0.002 U	0.50 U	0.012 J	0.05 U	0.002 U
ENDOSULFAN II	NC	220	0.10 U	0.002 U	0.10 U	0.002 U	1 U	0.002 U	0.10 U	0.002 U
ENDOSULFAN SULFATE	NC	220	0.10 UJ	0.002 U	0.10 U	0.002 U	1 U	0.002 U	0.10 U	0.002 U
ENDRIN	2	11	0.10 U	0.002 U	0.10 U	0.002 U	1 U	0.003 UJ	0.10 U	0.002 U
ENDRIN ALDEHYDE	NC	11	0.10 U	0.009 U	0.10 U	0.009 U	1 U	0.009 U	0.10 U	0.009 U
ENDRIN KETONE	NC	11	0.10 U	0.003 UJ	0.10 U	0.003 UJ	1 U	0.003 UJ	0.10 U	0.003 UJ
GAMMA-BHC (LINDANE)	0.2	0.052	0.053 UJ	0.002 U	0.05 U	0.002 U	**10 [G]**	**4.4 [G]**	0.05 U	0.002 U
GAMMA-CHLORDANE	2	0.19	0.053 U	0.001 U	0.05 U	0.001 U	0.50 U	0.036 J	0.05 U	0.001 U
HEPTACHLOR	0.4	0.015	0.053 U	0.001 U	0.05 U	0.011 J	0.50 U	0.001 U	0.05 U	0.001 U
HEPTACHLOR EPOXIDE	0.2	0.0074	0.053 U	0.001 U	0.05 U	0.001 U	0.50 U	0.023 J	0.05 U	0.001 U
METHOXYCHLOR	40	180	0.53 U	0.003 U	0.50 U	0.003 UJ	0.50 U	0.014 J	0.50 U	0.003 UJ

Table 5-8
Summary of Detected Pesticide Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW27S MW27S-012003 01/20/03	JAX47-MW27S MW27S-030303 03/03/03	JAX47-MW27S MW27S-030303-F 03/03/03	JAX47-MW27S MW27S-113006 11/30/06	JAX47-MW28S MW28S-120806 12/08/06	JAX47-MW29S MW29S-030907 03/09/07	JAX47-MW30S MW30S-030907 03/09/07	JAX47-MW31D MW31D-030907 03/09/07
Total Pesticides/PCBs (ug/L)										
4,4'-DDD	0.1	0.28	0.10 U	0.10 U	0.10 U	0.001 J	0.0004 U	0.0004 U	0.004 J	0.0004 U
4,4'-DDE	0.1	0.2	0.10 U	0.10 U	0.10 U	0.002 U	0.002 U	0.002 U	0.004 J	0.002 U
4,4'-DDT	0.1	0.2	0.10 U	0.10 U	0.10 U	0.002 U	0.002 U	0.002 J	0.002 U	0.002 U
ALDRIN	0.002	0.004	0.05 U	0.05 U	0.05 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
ALPHA-BHC	0.006	0.011	0.05 U	0.05 U	0.05 U	**0.21 [G]**	0.001 U	0.001 U	0.001 U	0.001 U
ALPHA-CHLORDANE	2	0.19	0.05 U	0.05 U	0.05 U	0.012 J	0.001 U	0.001 U	0.001 U	0.001 U
BETA-BHC	0.02	0.037	**0.064 [G]**	0.05 U	0.05 U	**0.16 [G]**	0.002 U	0.003 J	0.004 J	0.002 U
DELTA-BHC	2.1	0.011	0.11	0.05 U	0.05 U	0.41 J	0.001 U	0.062 U	0.061 U	0.001 U
DIELDRIN	0.002	0.0042	0.10 U	0.10 U	0.10 U	**0.004 J [G]**	**0.003 J [G]**	**0.004 J [G]**	**0.009 J [G]**	0.0008 U
ENDOSULFAN I	NC	220	0.05 U	0.05 U	0.05 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
ENDOSULFAN II	NC	220	0.10 U	0.10 U	0.10 U	0.013 J	0.002 U	0.003 J	0.039 J	0.002 U
ENDOSULFAN SULFATE	NC	220	0.10 U	0.10 U	0.10 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
ENDRIN	2	11	0.10 U	0.10 U	0.10 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
ENDRIN ALDEHYDE	NC	11	0.10 U	0.10 U	0.10 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U
ENDRIN KETONE	NC	11	0.10 U	0.10 U	0.10 U	0.006 J	0.003 UJ	0.003 U	0.003 U	0.003 U
GAMMA-BHC (LINDANE)	0.2	0.052	0.039	0.05 U	0.05 U	**0.33 [G]**	0.002 U	0.002 U	0.002 U	0.002 U
GAMMA-CHLORDANE	2	0.19	0.05 U	0.05 U	0.05 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
HEPTACHLOR	0.4	0.015	0.05 U	0.05 U	0.05 U	0.001 U	0.001 U	0.001 J	0.002 J	0.001 U
HEPTACHLOR EPOXIDE	0.2	0.0074	0.05 U	0.05 U	0.05 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
METHOXYCHLOR	40	180	0.50 U	0.50 U	0.50 U	0.003 U	0.003 UJ	0.003 U	0.003 U	0.003 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	USGS-DSMW46 USGS(D)-040902 04/09/02	USGS-SSMW45 USGS(S)-040902 04/09/02	USGS-SSMW45 USGS(S)-113006 11/30/06
Total Pesticides/PCBs (ug/L)					
4,4'-DDD	0.1	0.28	0.10 U	0.10 U	0.0004 U
4,4'-DDE	0.1	0.2	0.10 U	0.10 U	0.002 U
4,4'-DDT	0.1	0.2	0.10 U	0.10 U	0.002 U
ALDRIN	0.002	0.004	0.05 U	0.05 U	0.002 U
ALPHA-BHC	0.006	0.011	0.05 U	0.05 U	0.001 U
ALPHA-CHLORDANE	2	0.19	0.05 U	0.05 U	0.001 U
BETA-BHC	0.02	0.037	0.05 U	0.05 U	0.002 U
DELTA-BHC	2.1	0.011	0.05 U	0.05 U	0.001 U
DIELDRIN	0.002	0.0042	0.10 U	0.10 U	0.0008 U
ENDOSULFAN I	NC	220	0.05 U	0.05 U	0.002 U
ENDOSULFAN II	NC	220	0.10 U	0.10 U	0.002 U
ENDOSULFAN SULFATE	NC	220	0.10 U	0.10 U	0.002 U
ENDRIN	2	11	0.10 U	0.10 U	0.002 U
ENDRIN ALDEHYDE	NC	11	0.10 U	0.10 U	0.009 U
ENDRIN KETONE	NC	11	0.10 U	0.10 U	0.003 UJ
GAMMA-BHC (LINDANE)	0.2	0.052	0.05 U	0.05 U	0.002 U
GAMMA-CHLORDANE	2	0.19	0.05 U	0.05 U	0.001 U
HEPTACHLOR	0.4	0.015	0.05 U	0.05 U	0.001 U
HEPTACHLOR EPOXIDE	0.2	0.0074	0.05 U	0.05 U	0.001 U
METHOXYCHLOR	40	180	0.50 U	0.50 U	0.003 U

Notes:

GCTL = Groundwater Cleanup Target Level
J = estimated value
U = less than laboratory detection limit
µg/L = micrograms per liter
Concentrations in bold exceed Florida GCTL
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethylene
DDT - dichlorodiphenyltrichloroethane
BHC - benzene hexachloride
PCB - polychlorinated biphenyl

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR TCL PESTICIDE EXCEEDANCE IN GROUNDWATER TAG LAYOUT 5/11/07 SP

LEGEND

- Groundwater Sample Location Greater than FDEP GCTLs
- Groundwater Sample Location Less than FDEP GCTLs
- PSC Boundary
- Excavation Area 1 - 1 ft depth
- Excavation Area 2 - 1 ft depth
- Excavation Area 3 - 2 ft depth
- Excavation Area 4 - 3 ft depth
- GCTL Exceedance Boundary
- Building/Structure
- Vegetation
- Road
- Sidewalk
- Fence
- Surface Water

Tag Legend

Sample ID — Sample Date — Estimated Concentration

JAX47-MW28S (12/08/06)
DIELDRIN 0.003 J

Parameter — Result (µg/kg)

JAX47-MW12S [04/10/02]
BETA-BHC 1.3
DIELDRIN 0.023 J
JAX47-MW12S [02/27/04]
NO EXCEEDANCES
JAX47-MW12S [12/08/06]
ALPHA-BHC 1.1 J
BETA-BHC 0.7 J
DIELDRIN 0.15 J

JAX47-MW14S (12/08/06)
DIELDRIN 0.003 J
HEPTACHLOR EPOXIDE 0.62 J

JAX47-937-MW05S [04/09/02]
4,4'-DDD 0.13
JAX47-937-MW05S [11/29/06]
4,4'-DDE 0.13 J
ALDRIN 3.8 J
DELTA-BHC 4 J
DIELDRIN 0.018 J
JAX47-937-MW05S [04/03/07]
NO EXCEEDANCES

JAX47-MW30S [03/09/07]
DIELDRIN 0.009 J

JAX47-937-MW02S [04/09/02]
NO EXCEEDANCES
JAX47-937-MW02S [02/27/04]
NO EXCEEDANCES
JAX47-937-MW02S [11/30/06]
ALDRIN 3.5 J
BETA-BHC 0.097 J
JAX47-937-MW02S [04/03/07]
NO EXCEEDANCES

JAX47-MW15S [04/08/02]
NO EXCEEDANCES
JAX47-MW15S [02/27/04]
NO EXCEEDANCES
JAX47-MW15S [11/29/06]
NO EXCEEDANCES

JAX47-MW15D [04/08/02]
NO EXCEEDANCES
JAX47-MW15D [11/29/06]
NO EXCEEDANCES

JAX47-MW28S (12/08/06)
DIELDRIN 0.003 J

JAX47-937-MW03S [04/11/02]
4,4'-DDD 20
4,4'-DDE 0.15 J
4,4'-DDT 5.7
ALPHA-BHC 2.4
BETA-BHC 1.2
DELTA-BHC 3.6
DIELDRIN 0.83 J
GAMMA-BHC (LINDANE) 6.1
JAX47-937-MW03S [03/26/04]
NO EXCEEDANCES
JAX47-937-MW03S [07/25/05]
4,4'-DDD 34.5
ALPHA-BHC 5.3
BETA-BHC 3.6
DELTA-BHC 7.1
DIELDRIN 1.8 I
GAMMA-BHC (LINDANE) 12.6
JAX47-937-MW03S [11/29/06]
4,4'-DDD 13 J
ALDRIN 2.6 J
ALPHA-BHC 0.64 J
BETA-BHC 1.1 J
DIELDRIN 0.32 J
GAMMA-BHC (LINDANE) 1.1 J
JAX47-937-MW03S [04/03/07]
NO EXCEEDANCES

JAX47-MW23S [11/07/02]
NO EXCEEDANCES
JAX47-MW23S [12/05/06]
NO EXCEEDANCES

JAX47-MW24D [11/12/02]
NO EXCEEDANCES
JAX47-MW24D [12/05/06]
NO EXCEEDANCES

JAX47-MW29S [03/09/07]
DIELDRIN 0.004 J

JAX47-MW26S [01/20/03]
NO EXCEEDANCES
JAX47-MW26S [12/08/06]
NO EXCEEDANCES

JAX47-MW27S [01/20/03]
BETA-BHC 0.064
JAX47-MW27S [03/03/03]
NO EXCEEDANCES
JAX47-MW27S [11/30/06]
ALPHA-BHC 0.21
BETA-BHC 0.16
DIELDRIN 0.004 J
GAMMA-BHC (LINDANE) 0.33

JAX47-MW25S (11/07/02)
ALPHA-BHC 5.9
BETA-BHC 2.8
DELTA-BHC 5.6
GAMMA-BHC (LINDANE) 10
JAX47-MW25S (12/08/06)
ALPHA-BHC 3.4
BETA-BHC 1.8 J
DELTA-BHC 3.6
GAMMA-BHC (LINDANE) 4.4

JAX47-MW14D [04/10/02]
NO EXCEEDANCES
JAX47-MW14D [02/27/04]
NO EXCEEDANCES
JAX47-MW14D [12/01/06]
NO EXCEEDANCES

JAX47-MW16S [04/05/02]
NO EXCEEDANCES
JAX47-MW16S [03/26/04]
NO EXCEEDANCES
JAX47-MW16S [12/05/06]
NO EXCEEDANCES

JAX47-MW16D [04/05/02]
NO EXCEEDANCES
JAX47-MW16D [12/05/06]
NO EXCEEDANCES

JAX47-MW31D [03/09/07]
NO EXCEEDANCES

JAX47-MW17S [04/04/02]
4,4'-DDD 6.5
4,4'-DDT 1.1
HEPTACHLOR 0.60
JAX47-MW17S [03/26/04]
NO EXCEEDANCES
JAX47-MW17S [12/05/06]
4,4'-DDD 25 J
ALDRIN 0.01 J
DIELDRIN 0.036 J

JAX47-MW21S [11/06/02]
NO EXCEEDANCES

JAX47-MW22D [11/06/02]
NO EXCEEDANCES

JAX47-937-MW01S [04/11/02]
ALPHA-BHC 0.11 J
JAX47-937-MW01S [02/27/04]
NO EXCEEDANCES
JAX47-937-MW01S [11/29/06]
DIELDRIN 0.003 J

JAX47-MW11D [04/04/02]
NO EXCEEDANCES
JAX47-MW11D [12/01/06]
NO EXCEEDANCES

JAX47-MW11S (04/04/02)
ALPHA-BHC 4.8
BETA-BHC 1.7
DELTA-BHC 4.2
GAMMA-BHC (LINDANE) 8.4
JAX47-MW11S (12/01/06)
ALDRIN 0.11 J
ALPHA-BHC 9.3
BETA-BHC 1.2
DELTA-BHC 8.3
DIELDRIN 0.033 J
GAMMA-BHC (LINDANE) 15

JAX47-MW10S [04/09/02]
NO EXCEEDANCES
JAX47-MW10S [11/30/06]
NO EXCEEDANCES

JAX47-MW13S (04/04/02)
4,4'-DDD 3.1
4,4'-DDT 1.5
ALPHA-BHC 14
BETA-BHC 1.2
DELTA-BHC 10
GAMMA-BHC (LINDANE) 22
JAX47-MW13S (07/25/05)
4,4'-DDD 3.4
4,4'-DDT 1.7
ALPHA-BHC 1.2
BETA-BHC 0.38 I
DIELDRIN 0.32 I
GAMMA-BHC (LINDANE) 1.1
JAX47-MW13S (12/01/06)
4,4'-DDD 0.69
4,4'-DDT 0.49
ALDRIN 0.011 J
ALPHA-BHC 2.7
BETA-BHC 0.32
DELTA-BHC 2.3
DIELDRIN 0.036 J
GAMMA-BHC (LINDANE) 3.3

JAX47-MW13D (04/04/02)
4,4'-DDD 1.9
4,4'-DDT 0.17
ALPHA-BHC 0.057
JAX47-MW13D (12/01/06)
4,4'-DDD 0.31

JAX47-536-MW03 (04/09/02)
4,4'-DDD 48
4,4'-DDE 0.92 J
ALPHA-BHC 4.2
DELTA-BHC 4.6

USGS-DSMW46 [04/09/02]
NO EXCEEDANCES

USGS-SSMW45 [04/09/02]
NO EXCEEDANCES
USGS-SSMW45 [11/30/06]
NO EXCEEDANCES

JAX47-MW20S [04/09/02]
NO EXCEEDANCES
JAX47-MW20S [11/30/06]
DIELDRIN 0.047 J

JAX47-937-MW06D [04/11/02]
NO EXCEEDANCES
JAX47-937-MW06D [11/30/06]
NO EXCEEDANCES

JAX47-MW18S [04/05/02]
NO EXCEEDANCES
JAX47-MW18S [02/27/04]
NO EXCEEDANCES
JAX47-MW18S [11/30/06]
NO EXCEEDANCES

JAX47-MW18D [04/05/02]
NO EXCEEDANCES
JAX47-MW18D [11/30/06]
NO EXCEEDANCES

JAX47-937-MW04S [04/11/02]
NO EXCEEDANCES
JAX47-937-MW04S [02/27/04]
NO EXCEEDANCES
JAX47-937-MW04S [12/01/06]
4,4'-DDD 8.2
ALDRIN 2.6 J
ALPHA-BHC 0.45
BETA-BHC 3.9 J
DIELDRIN 0.19 J
GAMMA-BHC (LINDANE) 0.66
JAX47-937-MW04S [04/03/07]
NO EXCEEDANCES

JAX47-MW19S [04/12/02]
NO EXCEEDANCES
JAX47-MW19S [12/05/06]
NO EXCEEDANCES

JAX47-MW17D (04/04/02)
4,4'-DDD 0.26
JAX47-MW17D (12/05/06)
BETA-BHC 0.089

Parameter	FDEP GCTL (µg/L)
4,4'-DDD	0.1
4,4'-DDE	0.1
4,4'-DDT	0.1
ALDRIN	0.002
ALPHA-BHC	0.006
BETA-BHC	0.02
DELTA-BHC	2.1
DIELDRIN	0.002
GAMMA-BHC (LINDANE)	0.2
HEPTACHLOR	0.4
HEPTACHLOR EPOXIDE	0.2

N

135 0 135 Feet

DRAWN BY	DATE
S. PAXTON	4/25/07
CHECKED BY	DATE
C. METZ	5/11/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXCEEDANCES OF PESTICIDES
IN GROUNDWATER
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 10
REV.	0

Phase III groundwater data will be used preferentially over Phase II data as it is most representative of current site conditions. Phase II data is presented for trend comparison purposes.

Ten (10) TCL pesticide compounds were reported at concentrations exceeding GCTLs during Phase III groundwater sampling. Each of these had also been identified at elevated levels in at least one sample during Phase I sampling. Three compounds reported at elevated levels in Phase I were not identified at concentrations exceeding GCTLs in Phase III: endrin, alpha-chlordane, and gamma-chlordane. The compounds reported most frequently at concentrations exceeding GCTLs in order of exceedances along with location of maximum detection are as follows:

- Dieldrin was detected exceeding GCTLs in 12 monitoring wells at a maximum concentration of 0.32 µg/L in JAX47-937-MW03S (south of Building 937). It was detected in 14 of 34 wells sampled during Phase III.
- Beta-BHC was detected exceeding GCTLs in nine monitoring wells at a maximum concentration of 3.9 µg/L in JAX47-937-MW04S (south of Building 937). It was detected in 12 of 34 wells sampled during Phase III.
- Alpha-BHC was detected exceeding GCTLs in seven monitoring wells at a maximum concentration of 9.3 µg/L in JAX47-MW11S (north of Building 536). It was detected in 9 of 34 wells sampled during Phase III.
- Aldrin was detected exceeding GCTLs in seven monitoring wells at a maximum concentration of 3.8 µg/L in JAX47-937-MW05S (south of Building 937). It was detected in 7 of 34 wells sampled during Phase III.
- Gamma-BHC was detected exceeding GCTLs in six monitoring wells at a maximum concentration of 15 µg/L in JAX47-MW11S (north of Building 536). It was detected in 10 of 34 wells sampled during Phase III.
- 4,4'-DDD was detected exceeding GCTLs in five monitoring wells at a maximum concentration of 25 µg/L in JAX47-MW17S (south central area of PSC 47). It was detected in 10 of 34 wells sampled during Phase III.
- Delta-BHC was detected exceeding GCTLs in four monitoring wells at a maximum concentration of 8.3 µg/L in JAX47-MW11S (north of Building 536). It was detected in 15 of 34 wells sampled during Phase III.
- 4,4'-DDE was detected exceeding GCTLs in one monitoring well at a maximum concentration of 0.13 µg/L in JAX47-937-MW05S (south of Building 937). It was detected in 11 of 34 wells sampled during Phase III.
- 4,4'-DDT was detected exceeding GCTLs in one monitoring well at a maximum concentration of 0.49 µg/L in JAX47-13S (south of Building 937). It was detected in 8 of 34 wells sampled during Phase III.

- Heptachlor epoxide was detected exceeding GCTLs in one monitoring well at a maximum concentration of 0.62 µg/L in JAX47-MW14S (north corner of Building 937). It was detected in 7 of 34 wells sampled during Phase III.

The distribution of pesticide compounds observed in Phase I was similar to that observed in Phases II and III. BHC isomers, aldrin, and dieldrin were identified in the vicinity of the removed DVECC tank and in a broad area north and south of the Pesticide Shop. Pesticide exceedances were reported at three sampling points north of the Pesticide Shop (MW11S, MW25S, and MW27S), and at each location, the identified compounds were BHC isomers, except MW11S, which also contained aldrin and dieldrin. Beta-BHC was the only pesticide identified in the farthest downgradient well (MW27S) sampled during Phase II. Phase III sampling results for MW27S reported concentrations of three BHC isomers (alpha, beta, and gamma) and dieldrin exceeding GCTLs. This resulted in monitoring well MW29S (downgradient of MW27S) and MW30S (downgradient/cross-gradient of western end of Pesticide Shop) to verify the downgradient extent of contamination. No pesticide concentrations were reported in excess of criteria for MW29S or MW30S.

Monitoring well pair MW17S/-MW17D was placed upgradient (south) of DVECC, approximately equidistant between DPT borings SB37 and SB58, where pesticide compounds and VOCs were detected at elevated levels during Phase I, as discussed in Sections 5.3.2.1.1 and 5.3.2.1.2. Locations of several other monitoring wells installed during Phase II, including MW16S/MW16D and MW19S, were chosen to delineate the contamination discovered in this area. Of the wells installed in this area for delineation purposes, exceedances were only reported in samples collected from the MW17 pair. Pesticide compounds 4,4'-DDD, 4,4'-DDT, alpha-chlordane and heptachlor were reported in MW17S samples at concentrations exceeding their respective GCTLs. 4,4'-DDD (0.26 µg/L) was the only GCTL exceedance reported in samples collected from MW17D. Wells MW21S, MW22D, MW23S, and MW24D (see Figure 5-10) were added to the monitoring network for further delineation after analytical results on samples collected from the MW17 pair were known. No pesticide compounds were identified at concentrations exceeding GCTLs in any of the samples collected from these four additional wells.

5.3.2.2.2 TCL VOCs and SVOCs

VOC and SVOC concentrations reported in samples collected from permanent monitoring wells during Phases II and III RI activities are listed in Tables 5-9 and 5-10, respectively. Validated laboratory reports showing these results are included in Appendices J.2 and J.3, respectively. Concentrations exceeding GCTLs for these constituents are illustrated on Figure 5-11. Please refer to Appendix D, Tables D-3 and D-5 that detail which samples were analyzed for TCL VOCs and SVOCs during the Phase II and III (respectively) groundwater assessment. All Phase III samples were analyzed for VOCs and SVOCs except monitoring well MW31D.

Table 5-9
Summary of Detected VOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 8

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-536-MW03 536-MW03-040902 04/09/02	JAX47-937-MW01S 937-MW01S-041102 04/11/02	JAX47-937-MW01S 937-MW01S-041102-D 04/11/02	JAX47-937-MW01S 937-MW01S-112906 11/29/06	JAX47-937-MW02S 937-MW02S-041002 04/09/02	JAX47-937-MW02S 937-MW02S-113006 11/30/06	JAX47-937-MW03S 937-MW03S-041102 04/11/02	JAX47-937-MW03S 937-MW03S-112906 11/29/06
Volatile Organics (ug/L)										
1,1-DICHLOROETHANE	70	810	5 U	0.90 J	0.90 J	0.2 U	5 U	0.2 U	5 U	0.2 U
1,1-DICHLOROETHENE	7	340	5 U	5 U	5 U	0.2 U	5 U	0.2 U	0.70 J	0.7 J
1,2,4-TRICHLOROBENZENE	70	7.2	5 U	5 U	5 U	0.1 U	5 U	0.3 U	5 U	2.5
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.048	5 U	5 U	5 U	0.3 U	5 U	**2.7 [G]**	5 U	0.3 U
1,2-DICHLOROBENZENE	600	370	5 U	5 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,2-DICHLOROETHANE	3	0.12	5 U	5 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
1,3-DICHLOROBENZENE	210	180	5 U	5 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,4-DICHLOROBENZENE	75	0.5	2 J	5 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
2-BUTANONE	4200	7000	26	5 UJ	5 UJ	2 U	5 U	2 U	5 UJ	2 U
2-HEXANONE	280	NC	2 J	5 U	5 U	0.6 U	5 UJ	0.6 U	5 U	0.6 U
ACETONE	6300	5500	85	5 UJ	5 UJ	2 U	5 U	2 U	5 UJ	13.3 U
BENZENE	1	0.35	**2 J [G]**	1 J	1 J	0.2 U	0.60 J	**4.4 [G]**	0.40 J	**3.3 [G]**
BROMOFORM	4.4	8.5	5 U	5 U	5 U	0.2 UJ	5 U	1.5 J	5 U	0.2 UJ
CARBON DISULFIDE	700	1000	2 J	0.70 J	5 U	0.9 U	5 U	0.9 U	5 U	0.9 U
CHLOROBENZENE	100	110	4 J	0.50 J	0.40 J	0.2 U	5 U	0.8 J	5 U	0.6 J
CHLOROETHANE	12	4.6	5 U	5 U	5 U	0.3 U	5 U	1	5 U	0.3 U
CHLOROFORM	70	0.17	5 U	5 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
CHLOROMETHANE	2.7	160	5 U	0.80 J	2 J	0.3 U	**3 J [G]**	0.3 U	2 J	0.3 U
CIS-1,2-DICHLOROETHENE	70	61	1 J	62	61	17	21	**228 J [G]**	58	**564 [G]**
CYCLOHEXANE	NC	35000	5 U	5 U	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U
DIETHYL ETHER	750	1200				0.5 U		0.5 U		0.5 U
ETHYLBENZENE	30	1300	3 J	19	18	0.3 U	2 J	26.8	5 U	9.9
ISOPROPYLBENZENE	0.8	660	5 U	**2 J [G]**	**2 J [G]**	0.1 U	5 U	**1.6 [G]**	5 U	**1 J [G]**
M+P-XYLENES	20	NC								
METHANE	NC	NC	1800	4000			410		63	
METHYL ACETATE	3000	6100	4 J	5 U	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U
METHYL CYCLOHEXANE	NC	5200	5 U	5 U	5 U	0.6 UJ	5 U	0.6 UJ	5 U	0.6 UJ
METHYL TERT-BUTYL ETHER	20	11	5 U	5 U	5 U	0.2 J	5 U	0.2 U	5 U	0.2 U
O-XYLENE	20	210								
STYRENE	100	1600	5 U	5 U	5 U	0.1 U	5 U	1.7	5 U	0.1 U
TETRACHLOROETHENE	3	0.1	5 U	**7 [G]**	**6 [G]**	1.5 J	**11 [G]**	**3.8 [G]**	2 J	**3.9 J [G]**
TOLUENE	40	720	0.90 J	4 J	4 J	0.2 U	5 U	3.5	5 U	1 J
TOTAL 1,2-DICHLOROETHENE	63	61								
TOTAL XYLENES	20	210	9	**220 [G]**	**210 [G]**	0.3 U	5 U	**89.5 [G]**	5 U	**22.7 [G]**
TRANS-1,2-DICHLOROETHENE	100	120	5 U	5 U	5 U	0.5 J	5 U	1.7	0.80 J	4.2
TRICHLOROETHENE	3	0.028	2 J	2 J	2 J	1 J	**4 J [G]**	**3.1 [G]**	**6 [G]**	**7.4 [G]**
VINYL CHLORIDE	1	0.02	5 U	0.80 J	0.70 J	0.4 U	5 U	**5.1 [G]**	0.40 J	**1.9 [G]**

Notes:

GCTL = Groundwater Cleanup Target Level
J = estimated value
U = less than laboratory detection limit
µg/L = micrograms per liter
Concentrations in bold exceed Florida GCTL
NC: no criteria established in 62-777 F.A.C.
Blank cells denote not analyzed
PRG - preliminary remediation goal

Table 5-9
Summary of Detected VOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 8

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-937-MW04S 937-MW04S-041102 04/11/02	JAX47-937-MW04S 937-MW04S-120106 12/01/06	JAX47-937-MW05S 937-MW05S-041002 04/09/02	JAX47-937-MW05S 937-MW05S-112906 11/29/06	JAX47-937-MW06D 937-MW06D-041102 04/11/02	JAX47-937-MW06D 937-MW06D-113006 11/30/06	JAX47-MW10S MW10S-040902 04/09/02	JAX47-MW10S MW10S-113006 11/30/06
Volatile Organics (ug/L)										
1,1-DICHLOROETHANE	70	810	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,1-DICHLOROETHENE	7	340	5 U	0.7 J	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,2,4-TRICHLOROBENZENE	70	7.2	5 U	3.4	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.048	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
1,2-DICHLOROBENZENE	600	370	5 U	0.2 U	5 U	0.3 J	5 U	0.2 U	5 U	0.2 U
1,2-DICHLOROETHANE	3	0.12	0.40 J	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
1,3-DICHLOROBENZENE	210	180	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,4-DICHLOROBENZENE	75	0.5	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
2-BUTANONE	4200	7000	11 J	2 U	5 U	2 U	5 UJ	2 U	5 U	2 U
2-HEXANONE	280	NC	5 U	0.6 U	5 UJ	0.6 U	5 U	0.6 U	5 U	0.6 U
ACETONE	6300	5500	110 J	5.6 U	5 U	2.4 U	5 UJ	2 U	5 U	2 U
BENZENE	1	0.35	**9 [G]**	**3.2 [G]**	5 U	**14.6 [G]**	0.50 J	0.2 U	5 U	0.2 U
BROMOFORM	4.4	8.5	5 U	0.2 U	5 U	0.2 UJ	5 U	0.2 UJ	5 U	0.2 UJ
CARBON DISULFIDE	700	1000	5 U	0.9 U	5 U	0.9 U	5 U	0.9 U	0.70 J	0.9 U
CHLOROBENZENE	100	110	2 J	0.5 J	5 U	2.7 J	5 U	0.2 U	5 U	0.2 U
CHLOROETHANE	12	4.6	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
CHLOROFORM	70	0.17	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
CHLOROMETHANE	2.7	160	**3 J [G]**	0.3 U	1 J	0.3 U	**3 J [G]**	0.3 U	5 U	0.3 U
CIS-1,2-DICHLOROETHENE	70	61	**150 [G]**	**586 [G]**	30	**936 [G]**	3 J	0.9 J	5 U	0.2 U
CYCLOHEXANE	NC	35000	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U
DIETHYL ETHER	750	1200		0.5 U		0.9 J		0.5 U		0.5 U
ETHYLBENZENE	30	1300	**200 J [G]**	9.9	5 U	**135 [G]**	5 U	0.3 U	5 U	0.3 U
ISOPROPYLBENZENE	0.8	660	**6 [G]**	**1.1 [G]**	5 U	**3.6 J [G]**	5 U	0.1 U	5 U	0.1 U
M+P-XYLENES	20	NC								
METHANE	NC	NC	3000		76		260		10 U	
METHYL ACETATE	3000	6100	18	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U
METHYL CYCLOHEXANE	NC	5200	5 U	0.6 UJ	5 U	0.6 UJ	5 U	0.6 UJ	5 U	0.6 UJ
METHYL TERT-BUTYL ETHER	20	11	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
O-XYLENE	20	210								
STYRENE	100	1600	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
TETRACHLOROETHENE	3	0.1	**24 [G]**	**4 J [G]**	0.90 J	0.9 J	5 U	0.3 U	5 U	0.3 U
TOLUENE	40	720	**180 [G]**	0.6 J	5 U	21.9 J	5 U	0.2 U	5 U	0.2 U
TOTAL 1,2-DICHLOROETHENE	63	61								
TOTAL XYLENES	20	210	**6200 [G]**	**25.4 [G]**	5 U	**914 [G]**	5 U	0.3 U	5 U	0.3 U
TRANS-1,2-DICHLOROETHENE	100	120	0.60 J	4.5	0.50 J	2.5	5 U	0.2 U	5 U	0.2 U
TRICHLOROETHENE	3	0.028	**4 J [G]**	**7.7 [G]**	1 J	2	0.60 J	0.3 U	5 U	0.3 U
VINYL CHLORIDE	1	0.02	1 J	**1.6 [G]**	5 U	**5.5 [G]**	5 U	0.4 U	5 U	0.4 U

Notes:

GCTL = Groundwater Cleanup Target Level

J = estimated value

U = less than laboratory detection limit

µg/L = micrograms per liter

Concentrations in bold exceed Florida GCTL

NC: no criteria established in 62-777 F.A.C.

Blank cells denote not analyzed

PRG - preliminary remediation goal

Table 5-9
Summary of Detected VOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 3 of 8

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW11D MW11D-040402 04/04/02	JAX47-MW11D MW11D-120106 12/01/06	JAX47-MW11S MW11S-040402 04/04/02	JAX47-MW11S MW11S-120106 12/01/06	JAX47-MW12S MW12S-041002 04/10/02	JAX47-MW12S MW12S-120806 12/08/06	JAX47-MW13D MW13D-040402 04/04/02	JAX47-MW13D MW13D-120106 12/01/06	JAX47-MW13S MW13S-040402 04/04/02	JAX47-MW13S MW13S-120106 12/01/06
Volatile Organics (ug/L)												
1,1-DICHLOROETHANE	70	810	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,1-DICHLOROETHENE	7	340	5 U	0.2 U	0.60 J	0.6 J	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,2,4-TRICHLOROBENZENE	70	7.2	5 U	0.1 U	5 U	1.8	5 U	0.4 U	5 U	0.4 U	24	6.6
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.048	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
1,2-DICHLOROBENZENE	600	370	5 U	0.2 U	5 U	1.8	5 U	0.2 U	5 U	0.2 U	10	2.3 J
1,2-DICHLOROETHANE	3	0.12	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
1,3-DICHLOROBENZENE	210	180	5 U	0.2 U	5 U	0.6 J	5 U	0.2 U	5 U	0.2 U	2 J	1.3 J
1,4-DICHLOROBENZENE	75	0.5	5 U	0.1 U	2 J	5.6	5 U	0.1 U	5 U	0.1 U	9	3.9 J
2-BUTANONE	4200	7000	5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U
2-HEXANONE	280	NC	5 U	0.6 U	5 U	0.6 U	5 UJ	0.6 U	5 U	0.6 U	5 U	0.6 U
ACETONE	6300	5500	5 U	2.3 U	5 U	15.4 U	5 U	2 UJ	5 U	2 U	5 U	2 U
BENZENE	1	0.35	5 U	0.2 U	**4 J [G]**	**2.5 [G]**	5 U	0.2 U	5 U	0.2 U	1 J	0.6 J
BROMOFORM	4.4	8.5	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 UJ	5 U	0.2 UJ
CARBON DISULFIDE	700	1000	5 U	0.9 U	5 U	0.9 U	0.70 J	0.9 UJ	0.60 J	0.9 U	0.60 J	0.9 U
CHLOROBENZENE	100	110	5 U	0.2 U	18	12.7	5 U	0.2 U	5 U	0.2 U	8	2.6 J
CHLOROETHANE	12	4.6	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
CHLOROFORM	70	0.17	1 J	0.2 U	0.40 J	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
CHLOROMETHANE	2.7	160	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
CIS-1,2-DICHLOROETHENE	70	61	0.50 J	0.5 J	18	1.2	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
CYCLOHEXANE	NC	35000	5 U	0.4 U	43	38.3	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U
DIETHYL ETHER	750	1200		0.5 U		0.5 U		0.5 U		0.5 U		0.5 U
ETHYLBENZENE	30	1300	5 U	0.3 U	5	17.4	5 U	0.3 U	5 U	0.3 U	2 J	0.3 U
ISOPROPYLBENZENE	0.8	660	5 U	0.1 U	**5 [G]**	**9 [G]**	5 U	0.1 U	5 U	0.1 U	0.60 J	0.1 U
M+P-XYLENES	20	NC										
METHANE	NC	NC	10 U		480		10 U		10 U		13	
METHYL ACETATE	3000	6100	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U
METHYL CYCLOHEXANE	NC	5200	5 U	0.6 UJ	12	22.7 J	5 U	0.6 UJ	5 U	0.6 UJ	5 U	0.6 UJ
METHYL TERT-BUTYL ETHER	20	11	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
O-XYLENE	20	210										
STYRENE	100	1600	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
TETRACHLOROETHENE	3	0.1	5 U	0.3 UJ	5 U	0.3 UJ	5 U	0.3 UJ	5 U	0.3 U	5 U	0.3 U
TOLUENE	40	720	5 U	0.2 U	0.50 J	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
TOTAL 1,2-DICHLOROETHENE	63	61										
TOTAL XYLENES	20	210	5 U	0.3 U	20	17.4	5 U	0.3 U	5 U	0.3 U	6	0.3 U
TRANS-1,2-DICHLOROETHENE	100	120	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
TRICHLOROETHENE	3	0.028	5 U	0.3 U	**23 [G]**	**4.5 [G]**	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
VINYL CHLORIDE	1	0.02	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U

Notes:

GCTL = Groundwater Cleanup Target Level

J = estimated value

U = less than laboratory detection limit

µg/L = micrograms per liter

Concentrations in bold exceed Florida GCTL

NC: no criteria established in 62-777 F.A.C.

Blank cells denote not analyzed

PRG - preliminary remediation goal

Table 5-9
Summary of Detected VOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 4 of 8

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW13S MW13S-120106-D 12/01/06	JAX47-MW14D MW14D-041002 04/10/02	JAX47-MW14D MW14D-041002-D 04/10/02	JAX47-MW14D MW14D-120106 12/01/06	JAX47-MW14S MW14S-120806 12/08/06	JAX47-MW15D MW15D-040802 04/08/02	JAX47-MW15D MW15D-112906 11/29/06	JAX47-MW15S MW15S-040802 04/08/02	JAX47-MW15S MW15S-040802-D 04/08/02	JAX47-MW15S MW15S-112906 11/29/06
Volatile Organics (ug/L)												
1,1-DICHLOROETHANE	70	810	0.2 U	5 U	5 U	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
1,1-DICHLOROETHENE	7	340	0.2 U	5 U	5 U	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
1,2,4-TRICHLOROBENZENE	70	7.2	8.6	5 U	5 U	0.1 U	0.1 U	5 U	0.1 U	5 U	5 U	0.1 U
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.048	0.3 U	5 U	5 U	0.3 U	0.3 U	5 U	0.3 U	5 U	5 U	0.3 U
1,2-DICHLOROBENZENE	600	370	4.4 J	5 U	5 U	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
1,2-DICHLOROETHANE	3	0.12	0.1 U	5 U	5 U	0.1 U	0.1 U	5 U	0.1 U	5 U	5 U	0.1 U
1,3-DICHLOROBENZENE	210	180	2 J	5 U	5 U	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
1,4-DICHLOROBENZENE	75	0.5	6.3 J	5 U	5 U	0.1 U	0.1 U	5 U	0.1 U	5 U	5 U	0.1 U
2-BUTANONE	4200	7000	2 U	5 U	5 U	2 U	2 U	5 U	2 U	5 U	5 U	2 U
2-HEXANONE	280	NC	0.6 U	5 UJ	5 UJ	0.6 U	0.6 U	5 U	0.6 U	5 U	5 U	0.6 U
ACETONE	6300	5500	2 U	5 U	5 U	2 U	2 UJ	5 U	2 U	5 U	5 U	2 U
BENZENE	1	0.35	0.9 J	5 U	5 U	0.9 J	0.2 U	5 U	0.6 J	5 U	5 U	0.2 U
BROMOFORM	4.4	8.5	0.2 UJ	5 U	5 U	0.2 U	0.2 U	5 U	0.2 UJ	5 U	5 U	0.2 UJ
CARBON DISULFIDE	700	1000	0.9 U	5 U	0.60 J	0.9 U	0.9 UJ	5 U	0.9 U	5 U	5 U	0.9 U
CHLOROBENZENE	100	110	4.2 J	5 U	5 U	0.3 J	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
CHLOROETHANE	12	4.6	0.3 U	5 U	5 U	0.3 U	0.3 U	5 U	0.3 U	5 U	5 U	0.3 U
CHLOROFORM	70	0.17	0.2 U	0.90 J	1 J	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
CHLOROMETHANE	2.7	160	0.3 U	5 U	2 J	0.3 U	0.3 U	5 U	0.3 U	5 U	5 U	0.3 U
CIS-1,2-DICHLOROETHENE	70	61	0.2 U	0.40 J	0.40 J	12.4	0.2 U	0.50 J	4.8	5 U	5 U	0.2 U
CYCLOHEXANE	NC	35000	0.4 U	5 U	5 U	0.4 U	0.4 U	4 J	1.5	5 U	5 U	0.4 U
DIETHYL ETHER	750	1200	0.5 U			0.5 U	0.5 U		0.5 U			0.5 U
ETHYLBENZENE	30	1300	0.5 J	5 U	5 U	0.3 U	0.3 U	5 U	0.3 U	5 U	5 U	0.3 U
ISOPROPYLBENZENE	0.8	660	0.3 J	5 U	5 U	0.4 J	0.1 U	5 U	0.1 U	5 U	5 U	0.1 U
M+P-XYLENES	20	NC										
METHANE	NC	NC		44				110		20		
METHYL ACETATE	3000	6100	0.5 U	5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U	5 U	0.5 U
METHYL CYCLOHEXANE	NC	5200	0.6 UJ	5 U	5 U	0.6 UJ	0.6 UJ	4 J	1.7 J	5 U	5 U	0.6 UJ
METHYL TERT-BUTYL ETHER	20	11	0.2 U	5 U	5 U	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
O-XYLENE	20	210										
STYRENE	100	1600	0.1 U	5 U	5 U	0.1 U	0.1 U	5 U	0.1 U	5 U	5 U	0.1 U
TETRACHLOROETHENE	3	0.1	0.3 U	0.50 J	0.40 J	1.3 J	0.3 UJ	5 U	0.3 UJ	5 U	5 U	0.3 UJ
TOLUENE	40	720	0.2 U	5 U	5 U	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
TOTAL 1,2-DICHLOROETHENE	63	61										
TOTAL XYLENES	20	210	0.8 J	5 U	5 U	0.3 U	0.3 U	5 U	0.3 U	5 U	5 U	0.3 U
TRANS-1,2-DICHLOROETHENE	100	120	0.2 U	5 U	5 U	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	0.2 U
TRICHLOROETHENE	3	0.028	0.3 U	5 U	5 U	0.6 J	0.3 U	5 U	0.7 J	5 U	5 U	0.3 U
VINYL CHLORIDE	1	0.02	0.4 U	5 U	5 U	0.4 J	0.4 U	5 U	0.4 U	5 U	5 U	0.4 U

Notes:

GCTL = Groundwater Cleanup Target Level

J = estimated value

U = less than laboratory detection limit

µg/L = micrograms per liter

Concentrations in bold exceed Florida GCTL

NC: no criteria established in 62-777 F.A.C.

Blank cells denote not analyzed

PRG - preliminary remediation goal

Table 5-9
Summary of Detected VOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW16D MW16D-040502 04/05/02	JAX47-MW16D MW16D-120506 12/05/06	JAX47-MW16S MW16S-040502 04/05/02	JAX47-MW16S MW16S-120506 12/05/06	JAX47-MW17D MW17D-040402 04/04/02	JAX47-MW17D MW17D-120506 12/05/06	JAX47-MW17S MW17S-040402 04/04/02	JAX47-MW17S MW17S-120506 12/05/06	JAX47-MW18D MW18D-040502 04/05/02	JAX47-MW18D MW18D-113006 11/30/06
Volatile Organics (ug/L)												
1,1-DICHLOROETHANE	70	810	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,1-DICHLOROETHENE	7	340	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,2,4-TRICHLOROBENZENE	70	7.2	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.048	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
1,2-DICHLOROBENZENE	600	370	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,2-DICHLOROETHANE	3	0.12	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
1,3-DICHLOROBENZENE	210	180	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
1,4-DICHLOROBENZENE	75	0.5	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
2-BUTANONE	4200	7000	5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U
2-HEXANONE	280	NC	5 U	0.6 U	5 U	0.6 U	5 U	0.6 U	5 U	0.6 U	5 U	0.6 U
ACETONE	6300	5500	5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U	5 U	2 U
BENZENE	1	0.35	5 U	0.3 J	5 U	0.2 U	**11 [G]**	**8.4 [G]**	5 U	0.2 U	5 U	0.2 U
BROMOFORM	4.4	8.5	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 UJ
CARBON DISULFIDE	700	1000	5 U	0.9 U	0.80 J	0.9 U	1 J	0.9 U	0.70 J	0.9 U	0.80 J	0.9 U
CHLOROBENZENE	100	110	5 U	0.2 U	5 U	0.2 U	0.40 J	0.4 J	5 U	0.2 U	5 U	0.2 U
CHLOROETHANE	12	4.6	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
CHLOROFORM	70	0.17	1 J	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	1 J	0.2 U
CHLOROMETHANE	2.7	160	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U
CIS-1,2-DICHLOROETHENE	70	61	3 J	4.7	0.60 J	0.2 U	**400 [G]**	**328 [G]**	23	1.8	5 U	0.2 U
CYCLOHEXANE	NC	35000	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U
DIETHYL ETHER	750	1200		0.5 U		0.5 U		0.8 J		0.5 U		0.5 U
ETHYLBENZENE	30	1300	5 U	0.3 U	5 U	0.3 U	5	4	**44 [G]**	3.6	5 U	0.3 U
ISOPROPYLBENZENE	0.8	660	5 U	0.1 U	5 U	0.1 U	**3 J [G]**	**4.6 [G]**	**10 [G]**	**3.8 [G]**	5 U	0.1 U
M+P-XYLENES	20	NC										
METHANE	NC	NC	190		62		5000		24		19	
METHYL ACETATE	3000	6100	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U
METHYL CYCLOHEXANE	NC	5200	5 U	0.6 UJ	5 U	0.6 UJ	5 U	0.6 UJ	2 J	0.6 UJ	5 U	0.6 UJ
METHYL TERT-BUTYL ETHER	20	11	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U
O-XYLENE	20	210										
STYRENE	100	1600	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U
TETRACHLOROETHENE	3	0.1	5 U	0.3 UJ	5 U	0.3 UJ	5 U	0.3 UJ	**21 [G]**	2.8	5 U	0.3 U
TOLUENE	40	720	5 U	0.2 U	5 U	0.2 U	2 J	1.4	0.40 J	0.2 U	5 U	0.2 U
TOTAL 1,2-DICHLOROETHENE	63	61										
TOTAL XYLENES	20	210	5 U	0.3 U	5 U	0.3 U	**54 [G]**	**41.5 [G]**	**750 [G]**	0.3 U	5 U	0.3 U
TRANS-1,2-DICHLOROETHENE	100	120	5 U	0.2 U	5 U	0.2 U	10	0.6 J	5 U	0.2 U	5 U	0.2 U
TRICHLOROETHENE	3	0.028	0.60 J	1.3	5 U	0.3 U	5 U	0.3 U	2 J	0.3 U	5 U	0.3 U
VINYL CHLORIDE	1	0.02	5 U	0.4 U	5 U	0.4 U	**2 J [G]**	1	5 U	0.4 U	5 U	0.4 U

Notes:

GCTL = Groundwater Cleanup Target Level

J = estimated value

U = less than laboratory detection limit

µg/L = micrograms per liter

Concentrations in bold exceed Florida GCTL

NC: no criteria established in 62-777 F.A.C.

Blank cells denote not analyzed

PRG - preliminary remediation goal

Table 5-9
Summary of Detected VOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 6 of 8

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW18S MW18S-040502 04/05/02	JAX47-MW18S MW18S-113006 11/30/06	JAX47-MW19S MW19S-041202 04/12/02	JAX47-MW19S MW19S-120506 12/05/06	JAX47-MW20S MW20S-040902 04/09/02	JAX47-MW20S MW20S-113006 11/30/06	JAX47-MW21S MW21S-110602 11/06/02	JAX47-MW22D MW22D-110602 11/06/02	JAX47-MW23S MW23S-110602 11/07/02	JAX47-MW23S MW23S-120506 12/05/06
Volatile Organics (ug/L)												
1,1-DICHLOROETHANE	70	810	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	5 U	5 U	0.2 U
1,1-DICHLOROETHENE	7	340	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	5 U	5 U	0.2 U
1,2,4-TRICHLOROBENZENE	70	7.2	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	5 U	5 U	0.1 U
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.048	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	5 U	5 U	0.3 U
1,2-DICHLOROBENZENE	600	370	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	5 U	5 U	0.2 U
1,2-DICHLOROETHANE	3	0.12	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	5 U	5 U	0.1 U
1,3-DICHLOROBENZENE	210	180	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	5 U	5 U	0.2 U
1,4-DICHLOROBENZENE	75	0.5	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	5 U	5 U	0.1 U
2-BUTANONE	4200	7000	5 U	2 U	5 UJ	2 U	5 U	2 U	5 UR	5 UR	5 UR	2 U
2-HEXANONE	280	NC	5 U	0.6 U	5 U	0.6 U	5 U	0.6 U	5 UJ	5 UJ	5 UJ	0.6 U
ACETONE	6300	5500	5 U	2 U	5 UJ	2 U	5 U	2 U	5 UR	5 UR	27 R	2 U
BENZENE	1	0.35	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.20 J	5 U	0.2 U
BROMOFORM	4.4	8.5	5 U	0.2 UJ	5 U	0.2 U	5 U	0.2 UJ	5 U	5 U	5 U	0.2 U
CARBON DISULFIDE	700	1000	2 J	0.9 U	5 U	0.9 U	5 U	0.9 U	5 U	5 U	5 U	0.9 U
CHLOROBENZENE	100	110	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	5 U	5 U	0.2 U
CHLOROETHANE	12	4.6	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	5 U	5 U	0.3 U
CHLOROFORM	70	0.17	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.20 J	5 U	0.2 U
CHLOROMETHANE	2.7	160	5 U	0.3 U	0.80 J	0.3 U	5 U	0.3 U	5 U	5 U	5 U	0.3 U
CIS-1,2-DICHLOROETHENE	70	61	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.70 J	5 U	0.2 U
CYCLOHEXANE	NC	35000	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	5 U	5 U	0.4 U
DIETHYL ETHER	750	1200		0.5 U		0.5 U		0.5 U				0.5 U
ETHYLBENZENE	30	1300	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	5 U	5 U	0.3 U
ISOPROPYLBENZENE	0.8	660	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	5 U	5 U	0.1 U
M+P-XYLENES	20	NC							5 U	5 U	5 U	
METHANE	NC	NC	80		27		10 U					
METHYL ACETATE	3000	6100	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	5 U	5 U	0.5 U
METHYL CYCLOHEXANE	NC	5200	5 U	0.6 UJ	5 U	0.6 UJ	5 U	0.6 UJ	5 U	5 U	5 U	0.6 UJ
METHYL TERT-BUTYL ETHER	20	11	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	5 U	5 U	0.2 U
O-XYLENE	20	210							5 U	5 U	5 U	
STYRENE	100	1600	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	5 U	5 U	0.1 U
TETRACHLOROETHENE	3	0.1	5 U	0.3 U	5 U	0.3 UJ	5 U	0.3 U	5 U	5 U	5 U	0.3 UJ
TOLUENE	40	720	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	5 U	5 U	0.2 U
TOTAL 1,2-DICHLOROETHENE	63	61							5 U	5 U	5 U	
TOTAL XYLENES	20	210	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	5 U	5 U	0.3 U
TRANS-1,2-DICHLOROETHENE	100	120	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	5 U	5 U	0.2 U
TRICHLOROETHENE	3	0.028	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	5 U	5 U	0.3 U
VINYL CHLORIDE	1	0.02	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	5 U	5 U	0.4 U

Notes:

GCTL = Groundwater Cleanup Target Level

J = estimated value

U = less than laboratory detection limit

µg/L = micrograms per liter

Concentrations in bold exceed Florida GCTL

NC: no criteria established in 62-777 F.A.C.

Blank cells denote not analyzed

PRG - preliminary remediation goal

Table 5-9
Summary of Detected VOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 7 of 8

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW24D MW24D-111202 11/12/02	JAX47-MW24D MW24D-120506 12/05/06	JAX47-MW25S MW25S-110602 11/07/02	JAX47-MW25S MW25S-120806 12/08/06	JAX47-MW26S MW26S-012003 01/20/03	JAX47-MW26S MW26S-120806 12/08/06	JAX47-MW27S MW27S-012003 01/20/03	JAX47-MW27S MW27S-113006 11/30/06	JAX47-MW28S MW28S-120806 12/08/06	JAX47-MW29S MW29S-030907 03/09/07	JAX47-MW30S MW30S-030907 03/09/07
Volatile Organics (ug/L)													
1,1-DICHLOROETHANE	70	810	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.20 U
1,1-DICHLOROETHENE	7	340	5 U	0.2 U	0.40 J	0.4 J	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.20 U
1,2,4-TRICHLOROBENZENE	70	7.2	5 U	0.1 U	1 U	0.9 U	5 U	0.1 U	5 U	0.8 U	0.1 U	0.10 U	0.10 U
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.048	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	0.3 U	0.30 U	0.30 U
1,2-DICHLOROBENZENE	600	370	5 U	0.2 U	1 J	0.6 J	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.20 U
1,2-DICHLOROETHANE	3	0.12	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	0.1 U	0.10 U	0.10 U
1,3-DICHLOROBENZENE	210	180	5 U	0.2 U	0.30 J	0.2 U	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.20 U
1,4-DICHLOROBENZENE	75	0.5	5 U	0.1 U	4 J	3.2	5 U	0.1 U	5 U	0.4 J	0.1 U	0.10 U	0.10 U
2-BUTANONE	4200	7000	5 U	2 U	5 UR	2 U	5 U	2 U	5 U	2 U	2 U	2 U	4.06 J
2-HEXANONE	280	NC	5 U	0.6 U	5 UJ	0.6 U	5 U	0.6 U	5 U	0.6 U	0.6 U	0.60 U	0.60 U
ACETONE	6300	5500	5 U	2 U	5 UR	5.5 U	5 U	2 UJ	5 U	2 U	5.4 U	2 U	2 U
BENZENE	1	0.35	1 J	1	**2 J [G]**	0.5 J	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.22 J
BROMOFORM	4.4	8.5	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 UJ	0.2 U	0.20 U	0.20 U
CARBON DISULFIDE	700	1000	5 U	0.9 U	5 U	0.9 UJ	5 U	0.9 UJ	5 U	0.9 U	0.9 UJ	0.90 U	0.90 U
CHLOROBENZENE	100	110	5 U	0.2 U	8	2.7	5 U	0.2 U	5 U	0.2 J	0.2 U	0.20 U	0.20 U
CHLOROETHANE	12	4.6	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	0.3 U	0.30 U	0.30 U
CHLOROFORM	70	0.17	5 U	0.2 U	1 J	0.2 U	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.37 J
CHLOROMETHANE	2.7	160	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	5 U	0.3 U	0.3 U	0.30 U	0.30 U
CIS-1,2-DICHLOROETHENE	70	61	19	23.1	0.50 J	0.2 U	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.20 U
CYCLOHEXANE	NC	35000	5 U	0.4 U	40	0.4 U	5 U	0.4 U	5 U	0.4 U	0.4 U	0.45 U	0.45 U
DIETHYL ETHER	750	1200		0.5 U		0.5 U		0.5 U		0.5 U	0.5 U	0.54 U	0.54 U
ETHYLBENZENE	30	1300	5 U	0.3 U	0.80 J	0.3 U	5 U	0.3 U	5 U	0.3 U	0.3 U	0.30 U	0.30 U
ISOPROPYLBENZENE	0.8	660	5 U	0.1 U	**7 [G]**	**2.5 [G]**	5 U	0.1 U	5 U	0.1 U	0.1 U	0.10 U	0.10 U
M+P-XYLENES	20	NC	0.40 J		6		5 U		5 U				
METHANE	NC	NC											
METHYL ACETATE	3000	6100	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.51 U	0.51 U
METHYL CYCLOHEXANE	NC	5200	5 U	0.6 UJ	22	0.7 J	5 U	0.6 UJ	5 U	0.6 UJ	0.6 UJ	0.55 U	0.55 U
METHYL TERT-BUTYL ETHER	20	11	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	0.70 J	0.2 U	0.2 U	0.20 U	0.20 U
O-XYLENE	20	210	5 U		10		5 U		5 U				
STYRENE	100	1600	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	5 U	0.1 U	0.1 U	0.10 U	0.10 U
TETRACHLOROETHENE	3	0.1	5 U	0.3 UJ	5 U	0.3 UJ	5 U	0.3 UJ	5 U	0.3 U	0.3 UJ	0.30 U	0.30 U
TOLUENE	40	720	5 U	0.2 U	0.30 J	0.2 U	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.51 U
TOTAL 1,2-DICHLOROETHENE	63	61	19		5 U		5 U		5 U				
TOTAL XYLENES	20	210	0.40 J	0.3 U	16	0.6 J	5 U	0.3 U	5 U	0.3 U	0.3 U	0.40 U	0.43 U
TRANS-1,2-DICHLOROETHENE	100	120	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	0.2 U	0.2 U	0.20 U	0.20 U
TRICHLOROETHENE	3	0.028	2 J	1.7	**4 J [G]**	0.3 J	5 U	0.3 U	5 U	0.3 U	0.3 U	0.30 U	0.30 U
VINYL CHLORIDE	1	0.02	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	0.4 U	0.4 U	0.40 U	0.40 U

Notes:

GCTL = Groundwater Cleanup Target Level

J = estimated value

U = less than laboratory detection limit

µg/L = micrograms per liter

Concentrations in bold exceed Florida GCTL

NC: no criteria established in 62-777 F.A.C.

Blank cells denote not analyzed

PRG - preliminary remediation goal

Table 5-9
Summary of Detected VOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 8 of 8

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW31D MW31D-030907 03/09/07	USGS-DSMW46 USGS(D)-040902 04/09/02	USGS-SSMW45 USGS(S)-040902 04/09/02	USGS-SSMW45 USGS(S)-113006 11/30/06
Volatile Organics (ug/L)						
1,1-DICHLOROETHANE	70	810	0.20 U	5 U	5 U	0.2 U
1,1-DICHLOROETHENE	7	340	0.20 U	5 U	5 U	0.2 U
1,2,4-TRICHLOROBENZENE	70	7.2	0.10 U	5 U	5 U	0.1 U
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.048	0.30 U	5 U	5 U	0.3 U
1,2-DICHLOROBENZENE	600	370	0.20 U	5 U	5 U	0.2 U
1,2-DICHLOROETHANE	3	0.12	0.10 U	5 U	5 U	0.1 U
1,3-DICHLOROBENZENE	210	180	0.20 U	5 U	5 U	0.2 U
1,4-DICHLOROBENZENE	75	0.5	0.10 U	5 U	5 U	0.1 U
2-BUTANONE	4200	7000	2 U	5 U	5 U	2 U
2-HEXANONE	280	NC	0.60 U	5 U	5 U	0.6 U
ACETONE	6300	5500	2 U	5 U	5 U	2 U
BENZENE	1	0.35	0.66 J	5 U	5 U	0.2 U
BROMOFORM	4.4	8.5	0.20 U	5 U	5 U	0.2 UJ
CARBON DISULFIDE	700	1000	0.90 U	0.80 J	0.80 J	0.9 U
CHLOROBENZENE	100	110	0.20 U	5 U	5 U	0.2 U
CHLOROETHANE	12	4.6	0.30 U	5 U	5 U	0.3 U
CHLOROFORM	70	0.17	0.20 U	5 U	5 U	0.2 U
CHLOROMETHANE	2.7	160	0.30 U	5 U	5 U	0.3 U
CIS-1,2-DICHLOROETHENE	70	61	2.18	5 U	5 U	0.2 U
CYCLOHEXANE	NC	35000	0.45 U	5 U	5 U	0.4 U
DIETHYL ETHER	750	1200	0.54 U			0.5 U
ETHYLBENZENE	30	1300	0.30 U	5 U	5 U	0.3 U
ISOPROPYLBENZENE	0.8	660	0.10 U	5 U	5 U	0.1 U
M+P-XYLENES	20	NC				
METHANE	NC	NC		10 U	11	
METHYL ACETATE	3000	6100	0.51 U	5 U	5 U	0.5 U
METHYL CYCLOHEXANE	NC	5200	0.55 U	5 U	5 U	0.6 UJ
METHYL TERT-BUTYL ETHER	20	11	0.20 U	5 U	5 U	0.2 U
O-XYLENE	20	210				
STYRENE	100	1600	0.75 J	5 U	5 U	0.1 U
TETRACHLOROETHENE	3	0.1	0.30 U	5 U	5 U	0.3 U
TOLUENE	40	720	0.24 U	5 U	5 U	0.2 U
TOTAL 1,2-DICHLOROETHENE	63	61				
TOTAL XYLENES	20	210	0.40 U	5 U	5 U	0.3 U
TRANS-1,2-DICHLOROETHENE	100	120	0.20 U	5 U	5 U	0.2 U
TRICHLOROETHENE	3	0.028	0.30 U	5 U	5 U	0.3 U
VINYL CHLORIDE	1	0.02	0.40 U	5 U	5 U	0.4 U

Notes:

GCTL = Groundwater Cleanup Target Level

J = estimated value

U = less than laboratory detection limit

µg/L = micrograms per liter

Concentrations in bold exceed Florida GCTL

NC: no criteria established in 62-777 F.A.C.

Blank cells denote not analyzed

PRG - preliminary remediation goal

TABLE 5-10
Summary of Detected SVOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 3

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-937-MW01S 937-MW01S-041102 04/11/02	JAX47-937-MW01S 937-MW01S-041102-D 04/11/02	JAX47-937-MW01S 937-MW01S-112906 11/29/06	JAX47-937-MW02S 937-MW02S-113006 11/30/06	JAX47-937-MW03S 937-MW03S-112906 11/29/06	JAX47-937-MW04S 937-MW04S-120106 12/01/06	JAX47-937-MW05S 937-MW05S-112906 11/29/06	JAX47-937-MW06D 937-MW06D-041102 04/11/02
Semivolatile Organics (ug/L)										
1,1-BIPHENYL	0.5	300	10 U	10 U	3 U	3 U	3 U	3 U	3 U	10 U
2,4,5-TRICHLOROPHENOL	1	3600	25 U	25 U	2 U	**104 [G]**	**2720 [G]**	2 U	2 U	25 U
2,4-DICHLOROPHENOL	0.3	110	10 U	10 U	2 U	**6 J [G]**	**529 [G]**	**87 [G]**	2 U	10 U
2,4-DIMETHYLPHENOL	140	730	10 U	10 U	2 U	2 U	2 U	2 U	16	10 U
2-METHYLNAPHTHALENE	28	6.2	22	21	2 U	10 J	2 U	2 U	2 U	10 U
2-METHYLPHENOL	35	1800	10 U	1 J	2 U	2 U	2 U	2 U	6 J	10 U
3&4-METHYLPHENOL	3.5	180	10 U	0.80 J	2 U	2 U	2 U	2 U	2 U	10 U
DI-N-BUTYL PHTHALATE	700	3600	1 J	0.80 J	1 U	1 U	1 U	1 U	1 U	10 U
DIETHYL PHTHALATE	5600	29000	2 J	2 J	2 U	2 U	2 U	2 U	2 U	10 U
FLUORENE	280	240	10 U	10 U	1 U	1 U	1 U	1 U	1 U	10 U
NAPHTHALENE	14	6.2	**25 [G]**	**22 [G]**	3 U	14	3 U	3 U	**21 [G]**	10 U
PENTACHLOROPHENOL	1	0.56	25 U	25 U	1 U	1 UJ	**11 [G]**	**12 J [G]**	1 U	25 U
PHENANTHRENE	210	180	10 U	10 U	1 U	1 U	1 U	1 U	1 U	10 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-937-MW06D 937-MW06D-113006 11/30/06	JAX47-MW10S MW10S-113006 11/30/06	JAX47-MW11D MW11D-120106 12/01/06	JAX47-MW11S MW11S-120106 12/01/06	JAX47-MW12S MW12S-120806 12/08/06	JAX47-MW13D MW13D-040402 04/04/02	JAX47-MW13D MW13D-120106 12/01/06	JAX47-MW13S MW13S-040402 04/04/02
Semivolatile Organics (ug/L)										
1,1-BIPHENYL	0.5	300	3 U	3 U	3 U	**8 J [G]**	3 U	10 U	3 U	10 U
2,4,5-TRICHLOROPHENOL	1	3600	2 U	2 U	2 U	2 U	2 U	25 U	2 U	25 U
2,4-DICHLOROPHENOL	0.3	110	2 U	2 U	2 U	2 U	2 U	10 U	2 U	10 U
2,4-DIMETHYLPHENOL	140	730	2 U	2 U	2 U	2 U	2 U	10 U	2 U	10 U
2-METHYLNAPHTHALENE	28	6.2	2 U	2 U	2 U	**103 [G]**	2 U	10 U	2 U	**31 [G]**
2-METHYLPHENOL	35	1800	2 U	2 U	2 U	2 U	2 U	10 U	2 U	10 U
3&4-METHYLPHENOL	3.5	180	2 U	2 U	2 U	2 U	2 U	10 U	2 U	10 U
DI-N-BUTYL PHTHALATE	700	3600	1 U	1 U	1 U	1 U	1 U	10 U	1 U	10 U
DIETHYL PHTHALATE	5600	29000	2 U	2 U	2 U	2 U	2 U	10 U	2 U	10 U
FLUORENE	280	240	1 U	1 U	1 U	1 U	1 U	10 U	1 U	2 J
NAPHTHALENE	14	6.2	3 U	3 U	3 U	**194 [G]**	3 U	10 U	3 U	11
PENTACHLOROPHENOL	1	0.56	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	25 U	1 UJ	25 U
PHENANTHRENE	210	180	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 J

TABLE 5-10
Summary of Detected SVOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 3

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW13S MW13S-120106 12/01/06	JAX47-MW13S MW13S-120106-AVG 12/01/06	JAX47-MW13S MW13S-120106-D 12/01/06	JAX47-MW14D MW14D-120106 12/01/06	JAX47-MW14S MW14S-120806 12/08/06	JAX47-MW15D MW15D-112906 11/29/06	JAX47-MW15S MW15S-112906 11/29/06	JAX47-MW16D MW16D-120506 12/05/06
Semivolatile Organics (ug/L)										
1,1-BIPHENYL	0.5	300	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2,4,5-TRICHLOROPHENOL	1	3600	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4-DICHLOROPHENOL	0.3	110	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4-DIMETHYLPHENOL	140	730	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-METHYLNAPHTHALENE	28	6.2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-METHYLPHENOL	35	1800	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3&4-METHYLPHENOL	3.5	180	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
DI-N-BUTYL PHTHALATE	700	3600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DIETHYL PHTHALATE	5600	29000	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
FLUORENE	280	240	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
NAPHTHALENE	14	6.2	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
PENTACHLOROPHENOL	1	0.56	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ
PHENANTHRENE	210	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW16S MW16S-120506 12/05/06	JAX47-MW17D MW17D-120506 12/05/06	JAX47-MW17S MW17S-120506 12/05/06	JAX47-MW18D MW18D-113006 11/30/06	JAX47-MW18S MW18S-113006 11/30/06	JAX47-MW19S MW19S-120506 12/05/06	JAX47-MW20S MW20S-113006 11/30/06	JAX47-MW23S MW23S-120506 12/05/06
Semivolatile Organics (ug/L)										
1,1-BIPHENYL	0.5	300	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2,4,5-TRICHLOROPHENOL	1	3600	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4-DICHLOROPHENOL	0.3	110	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4-DIMETHYLPHENOL	140	730	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-METHYLNAPHTHALENE	28	6.2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-METHYLPHENOL	35	1800	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3&4-METHYLPHENOL	3.5	180	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
DI-N-BUTYL PHTHALATE	700	3600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DIETHYL PHTHALATE	5600	29000	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
FLUORENE	280	240	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
NAPHTHALENE	14	6.2	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
PENTACHLOROPHENOL	1	0.56	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PHENANTHRENE	210	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 5-10
Summary of Detected SVOC Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 3 of 3

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW24D MW24D-120506 12/05/06	JAX47-MW25S MW25S-120806 12/08/06	JAX47-MW26S MW26S-120806 12/08/06	JAX47-MW27S MW27S-113006 11/30/06	JAX47-MW28S MW28S-120806 12/08/06	JAX47-MW29S MW29S-030907 03/09/07	JAX47-MW30S MW30S-030907 03/09/07	JAX47-MW31D MW31D-030907 03/09/07
Semivolatile Organics (ug/L)										
1,1-BIPHENYL	0.5	300	3 U	**5 J [G]**	3 U	3 U	3 U	3 U	3 U	3 U
2,4,5-TRICHLOROPHENOL	1	3600	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4-DICHLOROPHENOL	0.3	110	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4-DIMETHYLPHENOL	140	730	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-METHYLNAPHTHALENE	28	6.2	2 U	25	2 U	2 U	2 U	2 U	2 U	2 U
2-METHYLPHENOL	35	1800	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3&4-METHYLPHENOL	3.5	180	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
DI-N-BUTYL PHTHALATE	700	3600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DIETHYL PHTHALATE	5600	29000	2 U	2 U	2 U	2 U	2 U	9 J	2 U	2 U
FLUORENE	280	240	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
NAPHTHALENE	14	6.2	3 U	**30 [G]**	3 U	3 U	3 U	3 U	3 U	3 U
PENTACHLOROPHENOL	1	0.56	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U
PHENANTHRENE	210	180	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	USGS-DSMW46 USGS(D)-040902 04/09/02	USGS-SSMW45 USGS(S)-040902 04/09/02	USGS-SSMW45 USGS(S)-113006 11/30/06
Semivolatile Organics (ug/L)					
1,1-BIPHENYL	0.5	300	11 U	10 U	3 U
2,4,5-TRICHLOROPHENOL	1	3600	28 U	25 U	2 U
2,4-DICHLOROPHENOL	0.3	110	11 U	10 U	2 U
2,4-DIMETHYLPHENOL	140	730	11 U	10 U	2 U
2-METHYLNAPHTHALENE	28	6.2	11 U	10 U	2 U
2-METHYLPHENOL	35	1800	11 U	10 U	2 U
3&4-METHYLPHENOL	3.5	180	11 U	10 U	2 U
DI-N-BUTYL PHTHALATE	700	3600	11 U	0.90 J	1 U
DIETHYL PHTHALATE	5600	29000	11 U	10 U	2 U
FLUORENE	280	240	11 U	10 U	1 U
NAPHTHALENE	14	6.2	11 U	10 U	3 U
PENTACHLOROPHENOL	1	0.56	28 U	25 U	1 UJ
PHENANTHRENE	210	180	11 U	10 U	1 U

Notes:
GCTL = Groundwater Cleanup Target Level
J = estimated value
U = less than laboratory detection limit
µg/L = micrograms per liter
Concentrations in bold exceed Florida GCTL
NC: no criteria established in 62-777 F.A.C.
Blank cells denote not analyzed
PRG - preliminary remediation goal

Rev. 1
05/18/07

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR VOC/SVOC EXCEEDANCE IN GROUNDWATER TAG LAYOUT 5/11/07 SP

LEGEND

- Groundwater Sample Location Greater than FDEP GCTLs
- Groundwater Sample Location Less than FDEP GCTLs
- PSC Boundary
- Excavation Area 1 - 1 ft depth
- Excavation Area 2 - 1 ft depth
- Excavation Area 3 - 2 ft depth
- Excavation Area 4 - 3 ft depth
- GCTL Exceedance Boundary
- Building/Structure
- Vegetation
- Road
- Sidewalk
- Fence
- Surface Water

Tag Legend

Sample ID — Sample Date — Estimated Concentration

JAX47-937-MW06D (04/11/02)
CHLOROMETHANE 3 J

Parameter — Result (µg/kg)

JAX47-937-MW02S [04/09/02]
CHLOROMETHANE 3 J
TETRACHLOROETHENE 11
TRICHLOROETHENE 4 J
JAX47-937-MW02S [02/27/04]
NO EXCEEDANCES
JAX47-937-MW02S [11/30/06]
1,2-DIBROMO-3-CHLOROPROPANE 2.7
2,4,5-TRICHLOROPHENOL 104
2,4-DICHLOROPHENOL 6 J
BENZENE 4.4
CIS-1,2-DICHLOROETHENE 228 J
ISOPROPYLBENZENE 1.6
TETRACHLOROETHENE 3.8
TOTAL XYLENES 89.5
TRICHLOROETHENE 3.1
VINYL CHLORIDE 5.1
JAX47-937-MW02S [04/03/07]
NO EXCEEDANCES

JAX47-937-MW06D [04/11/02]
CHLOROMETHANE 3 J
JAX47-937-MW06D [11/30/06]
NO EXCEEDANCES

JAX47-MW15S [04/08/02]
NO EXCEEDANCES
JAX47-MW15S [02/27/04]
NO EXCEEDANCES
JAX47-MW15S [11/29/06]
NO EXCEEDANCES

JAX47-MW15D [04/08/02]
NO EXCEEDANCES
JAX47-MW15D [11/29/06]
NO EXCEEDANCES

JAX47-937-MW03S [04/11/02]
TRICHLOROETHENE 6
JAX47-937-MW03S [03/26/04]
NO EXCEEDANCES
JAX47-937-MW03S [07/25/05]
NO EXCEEDANCES
JAX47-937-MW03S [11/29/06]
2,4,5-TRICHLOROPHENOL 2720
2,4-DICHLOROPHENOL 529
BENZENE 3.3
CIS-1,2-DICHLOROETHENE 564
ISOPROPYLBENZENE 1 J
PENTACHLOROPHENOL 11
TETRACHLOROETHENE 3.9 J
TOTAL XYLENES 22.7
TRICHLOROETHENE 7.4
VINYL CHLORIDE 1.9
JAX47-937-MW03S [04/03/07]
NO EXCEEDANCES

JAX47-MW16S [04/05/02]
NO EXCEEDANCES
JAX47-MW16S [03/26/04]
NO EXCEEDANCES
JAX47-MW16S [12/05/06]
NO EXCEEDANCES

JAX47-MW16D [04/05/02]
NO EXCEEDANCES
JAX47-MW16D [12/05/06]
NO EXCEEDANCES

JAX47-MW23S [11/07/02]
NO EXCEEDANCES
JAX47-MW23S [12/05/06]
NO EXCEEDANCES

JAX47-MW24D [11/12/02]
NO EXCEEDANCES
JAX47-MW24D [12/05/06]
NO EXCEEDANCES

JAX47-MW17D (04/04/02)
BENZENE 11
CIS-1,2-DICHLOROETHENE 400
ISOPROPYLBENZENE 3 J
TOTAL XYLENES 54
VINYL CHLORIDE 2 J
JAX47-MW17D (12/05/06)
BENZENE 8.4
CIS-1,2-DICHLOROETHENE 328
ISOPROPYLBENZENE 4.6
TOTAL XYLENES 41.5

JAX47-MW17S [04/04/02]
ETHYLBENZENE 44
ISOPROPYLBENZENE 10
TETRACHLOROETHENE 21
TOTAL XYLENES 750
JAX47-MW17S [03/26/04]
NO EXCEEDANCES
JAX47-MW17S [12/05/06]
ISOPROPYLBENZENE 3.8

JAX47-MW12S [04/10/02]
NO EXCEEDANCES
JAX47-MW12S [02/27/04]
NO EXCEEDANCES
JAX47-MW12S [12/08/06]
NO EXCEEDANCES

JAX47-MW29S [03/09/07]
NO EXCEEDANCES

JAX47-MW27S [01/20/03]
NO EXCEEDANCES
JAX47-MW27S [03/03/03]
NO EXCEEDANCES
JAX47-MW27S [11/30/06]
NO EXCEEDANCES

JAX47-MW25S (11/07/02)
BENZENE 2 J
ISOPROPYLBENZENE 7
TRICHLOROETHENE 4 J
JAX47-MW25S (12/08/06)
1,1-BIPHENYL 5 J
ISOPROPYLBENZENE 2.5
NAPHTHALENE 30

JAX47-MW26S [01/20/03]
NO EXCEEDANCES
JAX47-MW26S [12/08/06]
NO EXCEEDANCES

JAX47-MW30S [03/09/07]
NO EXCEEDANCES

JAX47-MW14S [12/08/06]
NO EXCEEDANCES

JAX47-MW28S [12/08/06]
NO EXCEEDANCES

JAX47-MW31D [03/09/07]
NO EXCEEDANCES

JAX47-MW21S [11/06/02]
NO EXCEEDANCES

JAX47-MW22D [11/06/02]
NO EXCEEDANCES

JAX47-MW19S [04/12/02]
NO EXCEEDANCES
JAX47-MW19S [12/05/06]
NO EXCEEDANCES

JAX47-937-MW05S [04/09/02]
NO EXCEEDANCES
JAX47-937-MW05S [11/29/06]
BENZENE 14.6
CIS-1,2-DICHLOROETHENE 936
ETHYLBENZENE 135
ISOPROPYLBENZENE 3.6 J
NAPHTHALENE 21
TOTAL XYLENES 914
VINYL CHLORIDE 5.5
JAX47-937-MW05S [04/03/07]
NO EXCEEDANCES

JAX47-MW18S [04/05/02]
NO EXCEEDANCES
JAX47-MW18S [02/27/04]
NO EXCEEDANCES
JAX47-MW18S [11/30/06]
NO EXCEEDANCES

JAX47-MW18D [04/05/02]
NO EXCEEDANCES
JAX47-MW18D [11/30/06]
NO EXCEEDANCES

JAX47-MW11D [04/04/02]
NO EXCEEDANCES
JAX47-MW11D [12/01/06]
NO EXCEEDANCES

JAX47-MW11S (04/04/02)
BENZENE 4 J
ISOPROPYLBENZENE 5
TRICHLOROETHENE 23
JAX47-MW11S (12/01/06)
1,1-BIPHENYL 8 J
2-METHYLNAPHTHALENE 103
BENZENE 2.5
ISOPROPYLBENZENE 9
NAPHTHALENE 194
TRICHLOROETHENE 4.5

JAX47-MW10S [04/09/02]
NO EXCEEDANCES
JAX47-MW10S [11/30/06]
NO EXCEEDANCES

JAX47-MW13S [04/04/02]
2-METHYLNAPHTHALENE 31
JAX47-MW13S [07/25/05]
NO EXCEEDANCES
JAX47-MW13S [12/01/06]
NO EXCEEDANCES

JAX47-MW13D [04/04/02]
NO EXCEEDANCES
JAX47-MW13D [12/01/06]
NO EXCEEDANCES

JAX47-536-MW03 (04/09/02)
BENZENE 2 J

JAX47-MW14D [04/10/02]
NO EXCEEDANCES
JAX47-MW14D [02/27/04]
NO EXCEEDANCES
JAX47-MW14D [12/01/06]
NO EXCEEDANCES

USGS-DSMW46 [04/09/02]
NO EXCEEDANCES

USGS-SSMW45 [04/09/02]
NO EXCEEDANCES
USGS-SSMW45 [11/30/06]
NO EXCEEDANCES

JAX47-937-MW01S [04/11/02]
ISOPROPYLBENZENE 2 J
NAPHTHALENE 25
TETRACHLOROETHENE 7
TOTAL XYLENES 220
JAX47-937-MW01S [02/27/04]
NO EXCEEDANCES
JAX47-937-MW01S [11/29/06]
NO EXCEEDANCES

JAX47-MW20S [04/09/02]
NO EXCEEDANCES
JAX47-MW20S [11/30/06]
NO EXCEEDANCES

JAX47-937-MW04S [04/11/02]
BENZENE 9
CHLOROMETHANE 3 J
CIS-1,2-DICHLOROETHENE 150
ETHYLBENZENE 200 J
ISOPROPYLBENZENE 6
TETRACHLOROETHENE 24
TOLUENE 180
TOTAL XYLENES 6200
TRICHLOROETHENE 4 J
JAX47-937-MW04S [02/27/04]
NO EXCEEDANCES
JAX47-937-MW04S [12/01/06]
2,4-DICHLOROPHENOL 87
BENZENE 3.2
CIS-1,2-DICHLOROETHENE 586
ISOPROPYLBENZENE 1.1
PENTACHLOROPHENOL 12 J
TETRACHLOROETHENE 4 J
TOTAL XYLENES 25.4
TRICHLOROETHENE 7.7
VINYL CHLORIDE 1.6
JAX47-937-MW04S [04/03/07]
NO EXCEEDANCES

Parameter	FDEP GCTL (µg/L)
1,1-BIPHENYL	0.5
1,2-DIBROMO-3-CHLOROPROPANE	0.2
2,4,5-TRICHLOROPHENOL	1
2,4-DICHLOROPHENOL	0.3
2-METHYLNAPHTHALENE	28
BENZENE	1
CHLOROMETHANE	2.7
CIS-1,2-DICHLOROETHENE	70
ETHYLBENZENE	30
ISOPROPYLBENZENE	0.8
NAPHTHALENE	14
PENTACHLOROPHENOL	1
TETRACHLOROETHENE	3
TOLUENE	40
TOTAL XYLENES	20
TRICHLOROETHENE	3
VINYL CHLORIDE	1

150 0 150 Feet

N

Chilla Street

DRAWN BY	DATE
S. PAXTON	4/24/07
CHECKED BY	DATE
C. METZ	5/11/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXCEEDANCES OF VOCs and SVOCs
IN GROUNDWATER
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5 - 11
REV.	0

Groundwater analytical results reported on samples collected from permanent monitoring wells were similar to results obtained during Phase I of the groundwater assessment program. Two separate zones of elevated hydrocarbon concentrations were verified within the PSC boundary (southern plume in former DVECC tank vicinity and northern plume near central portion of Pesticide Shop). An additional area south of the PSC boundary near the MW17 well pair was confirmed as an area of concern for VOCs and SVOCs as well as pesticides. This additional area will be considered part of the southern plume associated with DVECC.

In the DVECC area, the largest number of exceedances and the highest concentrations were reported in samples collected from MW03S (10 GCTL exceedances) during Phase III. Monitoring well MW03S is located southwest of the former UST enclosures. In this sample, three petroleum hydrocarbon compounds (benzene, total xylenes, and isopropylbenzene) and seven chlorinated solvents (2,4,5-trichlorophenol, 2,4-dichlorophenol, cis-1,2-DCE, pentachlorophenol, PCE, TCE, and vinyl chloride) were reported at concentrations exceeding GCTLs. Highest of these concentrations were benzene (3.3 µg/L), total xylenes (22.7 µg/L), 2,4,5-trichlorophenol (2,720 µg/L), 2,4-dichlorophenol (529 µg/L), cis-1,2-DCE (564 µg/L), pentachlorophenol (11 µg/L), PCE (3.9 µg/L, estimated), TCE (7.4 µg/L) and vinyl chloride 1.9(9 µg/L). Nine targeted compounds exceeding GCTLs were reported in MW04S at concentrations similar to those reported in MW03S. MW03S is located southwest of the former UST enclosure.

Concentrations of petroleum hydrocarbon compounds and chlorinated solvents were also detected above GCTLs in DVECC wells MW01S (4 exceedances), MW02S (10 exceedances), and MW05S (7 exceedances). No GCTL exceedances were reported in samples from the deep well (MW06D) or perimeter wells MW14S, MW18S, and MW28S around the DVECC area.

Petroleum hydrocarbons and chlorinated solvents were identified in samples collected from MW17S (screened 2.5 to 12. 5 ft bls) and from MW17D (screened 37 to 42 ft bls), located in the hotspot identified outside the PSC boundary to the south of DVECC. The only compound reported at concentrations exceeding its GCTL in both wells was isopropylbenzene (3.8 µg/L in MW17S and 4.6 µg/L in MW17D). No other GCTL exceedances were reported in MW17S. Other exceedances reported in MW17D were benzene (8.4 µg/L), cis-1-2-DCE (328 µg/L), and total xylenes (41.5 µg/L). No VOC GCTL exceedances were reported in samples collected from MW19S, MW21S (Phase II only), MW 22D (Phase II only), or MW23S. Monitoring wells MW 21S and MW22D were abandoned following Phase II sampling because of their location (middle of a baseball field) and the fact no GCTL exceedances were reported in either well.

In the northern plume area (around the Pesticide Shop), GCTL exceedances were reported in samples from MW11S and MW25S only, both located north of the Pesticide Shop. The main analytes detected in this area were low levels of petroleum hydrocarbons, specifically benzene, isopropylbenzene, naphthalene, 2-methylnaphthalene, and 1,1-biphenyl. The only chlorinated solvent reported in this area was TCE. All six of the constituents listed above were detected in excess of GCTLs in MW11S. Concentrations for the six exceendances in MW11S ranged from 2.5 µg/L (estimated) for benzene to 194 µg/L for naphthalene. Three GCTL exceedances (isopropylbenzene, naphthalene, and 1,1-biphenyl) were reported in MW25S, all at concentrations slightly exceeding GCTLs.

The number of detections and constituent concentrations were lower in the two permanent monitoring wells sampled in this area during Phase II/III as compared to DPT grab sample results from Phase I. Based upon Phase I analyses, the highest concentrations of the most-frequently reported constituents in this area are present in close proximity to Building 536, on both the north and south side of the structure as indicated by analytical results for SB43 and SB47 (Figure 5-9).

5.3.2.2.3 TCL Herbicides

Although not considered COCs, due to lack of detections in pre-RI sampling efforts, groundwater samples collected from permanent monitoring wells during the April 2002 sampling event were analyzed for TCL herbicides to provide a reassurance that herbicides were not present in groundwater beneath the site. Monitoring wells added to the network after this date (i.e., those with designations of MW21 or higher) were not sampled for herbicides based upon current analytical data at the time. A summary of detected herbicide constituents is provided in Table 5-11 and validated laboratory analytical results are included in Appendix J. In each case where an herbicide compound was reported at a concentration equal to or exceeding its laboratory detection limit, the value was presented as a “J”, or estimated value.

A high concentration of 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) necessitated a 2500X dilution factor for analysis of the sample collected from DVECC well JAX47-937-MW03S, located southwest of the former UST. The reported “J” value for this sample was 10,000 µg/L, exceeding the GCTL of 50 µg/L for 2,4,5-T. 2,4-D was also reported at a “J” value of 1,000 µg/L, exceeding its GCTL of 70 µg/L. No other herbicides were detected in the MW03 samples at the elevated reporting limits.

Several herbicides were identified in other samples analyzed, but the reported J values were two to three magnitudes less than GCTLs in most cases. Samples in which the largest number of herbicide compounds were identified at these low concentrations were DVECC wells MW02S and MW04S (four identified compounds), the HLA well, JAX47-536-MW03, (six compounds), and MW11S, north of western half of the Pesticide Shop, (five compounds). The most frequently reported compounds were 2,4,5-T, 2,4-D, silvex (2,4,5-TP), and pentachlorophenol.

Table 5-11
Summary of Detected Herbicide Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 2

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	FEDERAL MCLs	JAX47-536-MW03 536-MW03-040902 04/09/02	JAX47-937-MW01S 937-MW01S-041102 04/11/02	JAX47-937-MW01S 937-MW01S-041102-D 04/11/02	JAX47-937-MW02S 937-MW02S-041002 04/09/02	JAX47-937-MW03S 937-MW03S-041102 04/11/02	JAX47-937-MW04S 937-MW04S-041102 04/11/02
Herbicides (ug/L)								
2,4,5-T	70	NC	1.1	1.8 J	1 U	0.46 J	**10000 J [G]**	1.1 R
2,4,5-TP (SILVEX)	50	50	1 U	1 U	1 U	0.22 J	260 R	0.25 J
2,4-D	70	70	0.55 J	4 U	4 U	0.70 J	**1000 J [G]**	1.6 J
2,4-DB	56	NC	0.51 R	4 U	4 U	0.42 R	10000 U	1.9 R
DICAMBA	210	NC	0.78 R	2 U	2 U	2 U	5000 U	0.20 J
DICHLOROPROP	35	NC	0.64 R	4 U	4 U	4 U	10000 U	2.2 R
PENTACHLOROPHENOL	1	1	0.083 J	0.50 U	0.50 U	0.061 J	1200 U	0.26 J

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	FEDERAL MCLs	JAX47-937-MW05S 937-MW05S-041002 04/09/02	JAX47-937-MW06D 937-MW06D-041102 04/11/02	JAX47-MW10S MW10S-040902 04/09/02	JAX47-MW11D MW11D-040402 04/04/02	JAX47-MW11S MW11S-040402 04/04/02	JAX47-MW12S MW12S-041002 04/10/02
Herbicides (ug/L)								
2,4,5-T	70	NC	1 U	0.14 J	1 U	1 U	0.57 J	1 U
2,4,5-TP (SILVEX)	50	50	1 U	1 U	1 U	0.35 J	0.31 J	1 U
2,4-D	70	70	4 U	4 U	4 U	4 U	4 U	4 U
2,4-DB	56	NC	4 U	4 U	4 U	4 U	0.51 J	4 U
DICAMBA	210	NC	2 U	2 U	2 U	2 U	2 U	2 U
DICHLOROPROP	35	NC	4 U	4 U	4 U	4 U	0.34 J	4 U
PENTACHLOROPHENOL	1	1	0.50 U	0.50 U	0.50 U	0.50 U	0.11 J	0.50 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	FEDERAL MCLs	JAX47-MW13D MW13D-040402 04/04/02	JAX47-MW13S MW13S-040402 04/04/02	JAX47-MW14D MW14D-041002 04/10/02	JAX47-MW14D MW14D-041002-D 04/10/02	JAX47-MW15D MW15D-040802 04/08/02
Herbicides (ug/L)							
2,4,5-T	70	NC	1 U	1 U	1 U	1 U	1 U
2,4,5-TP (SILVEX)	50	50	1 U	1 U	1 U	1 U	1 U
2,4-D	70	70	4 U	4 U	4 U	4 U	4 U
2,4-DB	56	NC	4 U	4 U	4 U	4 U	4 U
DICAMBA	210	NC	2 U	2 U	2 U	2 U	2 U
DICHLOROPROP	35	NC	4 U	4 U	4 U	4 U	4 U
PENTACHLOROPHENOL	1	1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Table 5-11
Summary of Detected Herbicide Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 2

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	FEDERAL MCLs	JAX47-MW15S MW15S-040802 04/08/02	JAX47-MW15S MW15S-040802-D 04/08/02	JAX47-MW16D MW16D-040502 04/05/02	JAX47-MW16S MW16S-040502 04/05/02	JAX47-MW17D MW17D-040402 04/04/02	JAX47-MW17S MW17S-040402 04/04/02
Herbicides (ug/L)								
2,4,5-T	70	NC	1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-TP (SILVEX)	50	50	1 U	1 U	1 U	1 U	1 U	1 U
2,4-D	70	70	4 U	4 U	4 U	4 U	4 U	4 U
2,4-DB	56	NC	4 U	4 U	4 U	4 U	4 U	0.61 R
DICAMBA	210	NC	2 U	2 U	2 U	2 U	2 U	2 U
DICHLOROPROP	35	NC	4 U	4 U	4 U	4 U	4 U	4 U
PENTACHLOROPHENOL	1	1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	FEDERAL MCLs	JAX47-MW18D MW18D-040502 04/05/02	JAX47-MW18S MW18S-040502 04/05/02	JAX47-MW19S MW19S-041202 04/12/02	JAX47-MW20S MW20S-040902 04/09/02	USGS-DSMW46 USGS(D)-040902 04/09/02	USGS-SSMW45 USGS(S)-040902 04/09/02
Herbicides (ug/L)								
2,4,5-T	70	NC	1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-TP (SILVEX)	50	50	1 U	1 U	1 U	1 U	1 U	1 U
2,4-D	70	70	4 U	4 U	4 U	4 U	4 U	4 U
2,4-DB	56	NC	4 U	4 U	4 U	4 U	4 U	4 U
DICAMBA	210	NC	2 U	2 U	2 U	2 U	2 U	2 U
DICHLOROPROP	35	NC	4 U	4 U	4 U	4 U	4 U	4 U
PENTACHLOROPHENOL	1	1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:

GCTL = Groundwater Cleanup Target Level
J = estimated value
U = less than laboratory detection limit
µg/L = micrograms per liter
Concentrations in bold exceed Florida GCTL
NC: no criteria established in 62-777 F.A.C.
MCL - Maximum Contaminant Level
R - Rejected due to percent difference between analytical columns exceeds 100 percent (D).

5.3.2.2.4 OP Pesticides and PCBs

The same wells that were sampled for TCL herbicides (preceding section) were also sampled for OP pesticides for the same reason. The rationale for PCB analyses was the same as that for SVOC analyses discussed above in Section 5.3.2.2.2 (i.e., maximum information from limited number of samples regarding constituents not previously identified at elevated levels). Consequently, samples collected from well pairs MW13S/D, JAX47-937-MW01S/MW06D, and USGS-SSMW45/DSMW46 were analyzed for PCBs in addition to SVOCs. Validated laboratory reports are provided in Appendix J. Thirty-one (31) OP pesticide compounds and seven aroclor congeners (PCBs) were included in the analyses. None of the targeted analytes were identified at concentrations equal to or exceeding laboratory reporting limits.

5.3.2.2.5 TAL Metals

During Phase II, samples collected from wells MW13S/MW13D, DVECC wells MW01S and MW06D, and the two USGS wells (DSMW46 and SSMW45) were analyzed for the 23 TAL Metals (i.e, inorganic constituents) according to the same rationale as discussed above for SVOCs and PCBs. Reported concentrations of TAL metals are listed in Table 5-12 and validated laboratory reports are included in Appendix J. In addition to FDEP GCTLs, reported metals concentrations were compared to NAS Jacksonville background concentrations.

Samples collected from all 26 monitoring wells during the April 2002 sampling event were analyzed for iron and manganese as part of the laboratory natural attenuation parameters list. The significance of iron and manganese analytical results, as they pertain to natural attenuation processes, is discussed in Section 6.3.

Arsenic was reported at concentrations of 746 µg/L and 810 µg/L (duplicate sample) in the sample collected from well MW01S during the initial Phase II groundwater sampling. This concentration for arsenic exceeded its NAS Jacksonville background concentration of 13.2 µg/L and the 2004 FDEP GCTL of 50 µg/L. This was the only metal value reported to exceed background concentrations in the six samples analyzed. Iron and aluminum were reported at concentrations exceeding their respective GCTLs of 300 and 200 µg/L in several samples, but these values and the other values reported for iron and aluminum are below NAS Jacksonville background concentrations.

5.3.2.3 Additional Arsenic Investigation

Due to the arsenic results for MW01S, additional arsenic sampling was performed in 2004 to further delineate the arsenic exceedance detected in MW01S at DVECC. The highest reported concentration during the additional arsenic investigation (2004) was in MW02S (8960 µg/L). Table 5-13 provides the

Table 5-12
Summary of Detected Total Inorganic Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-536-MW03 536-MW03-040902 04/09/02	JAX47-937-MW01S 937-MW01S-041102 04/11/02	JAX47-937-MW01S 937-MW01S-041102-D 04/11/02	JAX47-937-MW01S 937-MW01S-022704 02/27/04	JAX47-937-MW01S 937-MW01S-022704-D 02/27/04	JAX47-937-MW01S 937-MW01S-112906 11/29/06	JAX47-937-MW02S 937-MW02S-041002 04/09/02	JAX47-937-MW02S 937-MW02S-022704 02/27/04
Total Inorganics (ug/L)										
ALUMINUM	200	36000		124 U	171 U					
ARSENIC	10	0.045		**746 [G]**	**810 [G]**	**387 [G]**	**301 [G]**	**41 [G]**		**8960 [G]**
BARIUM	2000	2600		137	148					
CALCIUM	NC	NC		27800	29000					
CHROMIUM	100	110		0.84 U	0.84 U					
IRON	300	11000	**33000 [G]**	**31000 [G]**	**31400 [G]**				**10500 [G]**	
LEAD	15	15		1.37 U	1.37 U					
MAGNESIUM	NC	NC		8860	9000					
MANGANESE	50	880	32.4	37.8	39.9				**196 [G]**	
MERCURY	2	11		0.01 U	0.02					
NICKEL	100	730		0.93 U	0.93 U					
POTASSIUM	NC	NC		6720	6850					
SELENIUM	50	180		3.42 U	3.42 U					
VANADIUM	49	36		6	7					
ZINC	5000	11000		1.8 U	6.8 U					

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-937-MW02S 937-MW02S-113006 11/30/06	JAX47-937-MW02S 937-MW02S-040307 04/03/07	JAX47-937-MW03S 937-MW03S-041102 04/11/02	JAX47-937-MW03S 937-MW03S-032604 03/26/04	JAX47-937-MW03S 937-MW03S-112906 11/29/06	JAX47-937-MW03S 937-MW03S-040307 04/03/07	JAX47-937-MW04S 937-MW04S-041102 04/11/02	JAX47-937-MW04S 937-MW04S-022704 02/27/04
Total Inorganics (ug/L)										
ALUMINUM	200	36000								
ARSENIC	10	0.045	**8400 [G]**	**6640 [G]**		**7930 [G]**	**23000 [G]**	**6240 [G]**		3.8
BARIUM	2000	2600								
CALCIUM	NC	NC								
CHROMIUM	100	110								
IRON	300	11000			**6790 [G]**				**38400 [G]**	
LEAD	15	15								
MAGNESIUM	NC	NC								
MANGANESE	50	880			**96.5 [G]**				**465 [G]**	
MERCURY	2	11								
NICKEL	100	730								
POTASSIUM	NC	NC								
SELENIUM	50	180								
VANADIUM	49	36								
ZINC	5000	11000								

Table 5-12
Summary of Detected Total Inorganic Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-937-MW04S 937-MW04S-120106 12/01/06	JAX47-937-MW04S 937-MW04S-040307 04/03/07	JAX47-937-MW05S 937-MW05S-041002 04/09/02	JAX47-937-MW05S 937-MW05S-112906 11/29/06	JAX47-937-MW05S 937-MW05S-040307 04/03/07	JAX47-937-MW06D 937-MW06D-041102 04/11/02	JAX47-937-MW06D 937-MW06D-113006 11/30/06	JAX47-MW10S MW10S-040902 04/09/02
Total Inorganics (ug/L)										
ALUMINUM	200	36000						38.7 U		
ARSENIC	10	0.045	**5880 [G]**	18.3 U		**2310 [G]**	**2100 [G]**	**16.4 [G]**	**40.3 [G]**	
BARIUM	2000	2600						56.3		
CALCIUM	NC	NC						5570		
CHROMIUM	100	110						0.84 U		
IRON	300	11000			**11000 [G]**			**15500 [G]**		84.7 U
LEAD	15	15						1.37 U		
MAGNESIUM	NC	NC						2910		
MANGANESE	50	880			**214 [G]**			21		7.6
MERCURY	2	11						0.01 U		
NICKEL	100	730						1.2 U		
POTASSIUM	NC	NC						826		
SELENIUM	50	180						3.42 U		
VANADIUM	49	36						0.87 U		
ZINC	5000	11000						8.2 U		

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW10S MW10S-113006 11/30/06	JAX47-MW11D MW11D-040402 04/04/02	JAX47-MW11D MW11D-120106 12/01/06	JAX47-MW11S MW11S-040402 04/04/02	JAX47-MW11S MW11S-120106 12/01/06	JAX47-MW12S MW12S-041002 04/10/02	JAX47-MW12S MW12S-022704 02/27/04
Total Inorganics (ug/L)									
ALUMINUM	200	36000							
ARSENIC	10	0.045	4 U		4 U		5		2.13 U
BARIUM	2000	2600							
CALCIUM	NC	NC							
CHROMIUM	100	110							
IRON	300	11000		**325 [G]**		**679 [G]**		7.3 U	
LEAD	15	15							
MAGNESIUM	NC	NC							
MANGANESE	50	880		**128 [G]**		14.8		**53.7 [G]**	
MERCURY	2	11							
NICKEL	100	730							
POTASSIUM	NC	NC							
SELENIUM	50	180							
VANADIUM	49	36							
ZINC	5000	11000							

Table 5-12
Summary of Detected Total Inorganic Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW12S MW12S-120806 12/08/06	JAX47-MW13D MW13D-040402 04/04/02	JAX47-MW13D MW13D-120106 12/01/06	JAX47-MW13S MW13S-040402 04/04/02	JAX47-MW13S MW13S-120106 12/01/06	JAX47-MW13S MW13S-120106-D 12/01/06	JAX47-MW14D MW14D-041002 04/10/02	JAX47-MW14D MW14D-022704 02/27/04
Total Inorganics (ug/L)										
ALUMINUM	200	36000		**15600 [G]**		**929 [G]**				
ARSENIC	10	0.045	4 U	2.15 U	4 U	2.15 U	4 U	4 U		4.4
BARIUM	2000	2600		60.7		162				
CALCIUM	NC	NC		13300		6880				
CHROMIUM	100	110		15		1				
IRON	300	11000		**3910 [G]**		**1400 [G]**			**840 [G]**	
LEAD	15	15		7.3		1.37 U				
MAGNESIUM	NC	NC		6220		8360				
MANGANESE	50	880		29.4		10.9			**277 [G]**	
MERCURY	2	11		0.13 U		0.10 U				
NICKEL	100	730		6.1		2.1				
POTASSIUM	NC	NC		1450		3340				
SELENIUM	50	180		3.8		3.42 U				
VANADIUM	49	36		13.1		0.70 U				
ZINC	5000	11000		11.6		4.4				

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW14D MW14D-120106 12/01/06	JAX47-MW14S MW14S-120806 12/08/06	JAX47-MW15D MW15D-040802 04/08/02	JAX47-MW15D MW15D-112906 11/29/06	JAX47-MW15S MW15S-040802 04/08/02	JAX47-MW15S MW15S-022704 02/27/04	JAX47-MW15S MW15S-112906 11/29/06	JAX47-MW16D MW16D-040502 04/05/02
Total Inorganics (ug/L)										
ALUMINUM	200	36000								
ARSENIC	10	0.045	4 U	4 U		4 U		2.13 U	5.2	
BARIUM	2000	2600								
CALCIUM	NC	NC								
CHROMIUM	100	110								
IRON	300	11000			**569 [G]**		**469 [G]**			**6700 [G]**
LEAD	15	15								
MAGNESIUM	NC	NC								
MANGANESE	50	880			**65.3 [G]**		9.4			**256 [G]**
MERCURY	2	11								
NICKEL	100	730								
POTASSIUM	NC	NC								
SELENIUM	50	180								
VANADIUM	49	36								
ZINC	5000	11000								

Table 5-12
Summary of Detected Total Inorganic Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW16D MW16D-120506 12/05/06	JAX47-MW16S MW16S-040502 04/05/02	JAX47-MW16S MW16S-032604 03/26/04	JAX47-MW16S MW16S-120506 12/05/06	JAX47-MW17D MW17D-040402 04/04/02	JAX47-MW17D MW17D-120506 12/05/06	JAX47-MW17S MW17S-040402 04/04/02	JAX47-MW17S MW17S-032604 03/26/04
Total Inorganics (ug/L)										
ALUMINUM	200	36000								
ARSENIC	10	0.045	9.7		2.8	5.5		5.6		2.13 U
BARIUM	2000	2600								
CALCIUM	NC	NC								
CHROMIUM	100	110								
IRON	300	11000		**1360 [G]**			**6000 [G]**		**25800 [G]**	
LEAD	15	15								
MAGNESIUM	NC	NC								
MANGANESE	50	880		14.5			**168 [G]**		19.5	
MERCURY	2	11								
NICKEL	100	730								
POTASSIUM	NC	NC								
SELENIUM	50	180								
VANADIUM	49	36								
ZINC	5000	11000								

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW17S MW17S-120506 12/05/06	JAX47-MW18D MW18D-040502 04/05/02	JAX47-MW18D MW18D-113006 11/30/06	JAX47-MW18S MW18S-040502 04/05/02	JAX47-MW18S MW18S-022704 02/27/04	JAX47-MW18S MW18S-113006 11/30/06	JAX47-MW19S MW19S-041202 04/12/02	JAX47-MW19S MW19S-120506 12/05/06
Total Inorganics (ug/L)										
ALUMINUM	200	36000								
ARSENIC	10	0.045	4 U		**10.2 [G]**		2.13 U	4 U		4 U
BARIUM	2000	2600								
CALCIUM	NC	NC								
CHROMIUM	100	110								
IRON	300	11000		**8210 [G]**		**7080 [G]**			**395 [G]**	
LEAD	15	15								
MAGNESIUM	NC	NC								
MANGANESE	50	880		**307 [G]**		11.9			4.8	
MERCURY	2	11								
NICKEL	100	730								
POTASSIUM	NC	NC								
SELENIUM	50	180								
VANADIUM	49	36								
ZINC	5000	11000								

Table 5-12
Summary of Detected Total Inorganic Concentrations in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW20S MW20S-040902 04/09/02	JAX47-MW20S MW20S-113006 11/30/06	JAX47-MW23S MW23S-120506 12/05/06	JAX47-MW24D MW24D-120506 12/05/06	JAX47-MW25S MW25S-120806 12/08/06	JAX47-MW26S MW26S-120806 12/08/06	JAX47-MW27S MW27S-113006 11/30/06	JAX47-MW28S MW28S-120806 12/08/06
Total Inorganics (ug/L)										
ALUMINUM	200	36000								
ARSENIC	10	0.045		4 U	4 U	4 U	4.1	4 U	4 U	4 U
BARIUM	2000	2600								
CALCIUM	NC	NC								
CHROMIUM	100	110								
IRON	300	11000	**4460 [G]**							
LEAD	15	15								
MAGNESIUM	NC	NC								
MANGANESE	50	880	**82.1 [G]**							
MERCURY	2	11								
NICKEL	100	730								
POTASSIUM	NC	NC								
SELENIUM	50	180								
VANADIUM	49	36								
ZINC	5000	11000								

LOCATION SAMPLE ID SAMPLE DATE	FDEP GCTL	REGION 9 PRGs	JAX47-MW29S MW29S-030907 03/09/07	JAX47-MW30S MW30S-030907 03/09/07	JAX47-MW31D MW31D-030907 03/09/07	USGS-DSMW46 USGS(D)-040902 04/09/02	USGS-SSMW45 USGS(S)-040902 04/09/02	USGS-SSMW45 USGS(S)-113006 11/30/06
Total Inorganics (ug/L)								
ALUMINUM	200	36000				127	**2530 [G]**	
ARSENIC	10	0.045	4 U	4 U	4 U	2.15 U	2.15 U	4 U
BARIUM	2000	2600				149	52.8	
CALCIUM	NC	NC				5130	5840	
CHROMIUM	100	110				0.84 U	2.9	
IRON	300	11000				**1980 [G]**	**31200 [G]**	
LEAD	15	15				1.37 U	1.37 U	
MAGNESIUM	NC	NC				7680	12900	
MANGANESE	50	880				25.7	14.1	
MERCURY	2	11				0.11 U	0.03 U	
NICKEL	100	730				2.9	3.6	
POTASSIUM	NC	NC				1970	2680	
SELENIUM	50	180				3.42 U	3.42 U	
VANADIUM	49	36				1 U	2.9 U	
ZINC	5000	11000				16.9	6.8	

Notes:

GCTL = Groundwater Cleanup Target Level
J = estimated value
U = less than laboratory detection limit
µg/L = micrograms per liter
Concentrations in bold exceed Florida GCTL
NC: no criteria established in 62-777 F.A.C.
Blank cells denote not analyzed
PRG - preliminary remediation goal

Table 5-13
Summary of Arsenic in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Location	Sample ID	Sample Date	Arsenic Result (ug/L)	FDEP GCTL	REGION 9 PRG
JAX47-937-MW01S	937-MW01S-041102	04/11/02	**746 [G]**	10	0.045
JAX47-937-MW01S	937-MW01S-041102-D	04/11/02	**810 [G]**	10	0.045
JAX47-937-MW01S	937-MW01S-022704	02/27/04	**387 [G]**	10	0.045
JAX47-937-MW01S	937-MW01S-022704-D	02/27/04	**301 [G]**	10	0.045
JAX47-937-MW01S	937-MW01S-112906	11/29/06	**41 [G]**	10	0.045
JAX47-937-MW02S	937-MW02S-022704	02/27/04	**8960 [G]**	10	0.045
JAX47-937-MW02S	937-MW02S-113006	11/30/06	**8400 [G]**	10	0.045
JAX47-937-MW02S	937-MW02S-040307	04/03/07	**6640 [G]**	10	0.045
JAX47-937-MW03S	937-MW03S-032604	03/26/04	**7930 [G]**	10	0.045
JAX47-937-MW03S	937-MW03S-112906	11/29/06	**23000 [G]**	10	0.045
JAX47-937-MW03S	937-MW03S-040307	04/03/07	**6240 [G]**	10	0.045
JAX47-937-MW04S	937-MW04S-022704	02/27/04	3.8	10	0.045
JAX47-937-MW04S	937-MW04S-120106	12/01/06	**5880 [G]**	10	0.045
JAX47-937-MW04S	937-MW04S-040307	04/03/07	18.3 U	10	0.045
JAX47-937-MW05S	937-MW05S-112906	11/29/06	**2310 [G]**	10	0.045
JAX47-937-MW05S	937-MW05S-040307	04/03/07	**2100 [G]**	10	0.045
JAX47-937-MW06D	937-MW06D-041102	04/11/02	**16.4 [G]**	10	0.045
JAX47-937-MW06D	937-MW06D-113006	11/30/06	**40.3 [G]**	10	0.045
JAX47-MW10S	MW10S-113006	11/30/06	4 U	10	0.045
JAX47-MW11D	MW11D-120106	12/01/06	4 U	10	0.045
JAX47-MW11S	MW11S-120106	12/01/06	5	10	0.045
JAX47-MW12S	MW12S-022704	02/27/04	2.13 U	10	0.045
JAX47-MW12S	MW12S-120806	12/08/06	4 U	10	0.045
JAX47-MW13D	MW13D-040402	04/04/02	2.15 U	10	0.045
JAX47-MW13D	MW13D-120106	12/01/06	4 U	10	0.045
JAX47-MW13S	MW13S-040402	04/04/02	2.15 U	10	0.045
JAX47-MW13S	MW13S-120106	12/01/06	4 U	10	0.045
JAX47-MW13S	MW13S-120106-D	12/01/06	4 U	10	0.045
JAX47-MW14D	MW14D-022704	02/27/04	4.4	10	0.045
JAX47-MW14D	MW14D-120106	12/01/06	4 U	10	0.045
JAX47-MW14S	MW14S-120806	12/08/06	4 U	10	0.045
JAX47-MW15D	MW15D-112906	11/29/06	4 U	10	0.045
JAX47-MW15S	MW15S-022704	02/27/04	2.13 U	10	0.045
JAX47-MW15S	MW15S-112906	11/29/06	5.2	10	0.045
JAX47-MW16D	MW16D-120506	12/05/06	9.7	10	0.045
JAX47-MW16S	MW16S-032604	03/26/04	2.8	10	0.045
JAX47-MW16S	MW16S-120506	12/05/06	5.5	10	0.045
JAX47-MW17D	MW17D-120506	12/05/06	5.6	10	0.045
JAX47-MW17S	MW17S-032604	03/26/04	2.13 U	10	0.045
JAX47-MW17S	MW17S-120506	12/05/06	4 U	10	0.045
JAX47-MW18D	MW18D-113006	11/30/06	**10.2 [G]**	10	0.045
JAX47-MW18S	MW18S-022704	02/27/04	2.13 U	10	0.045

Table 5-13
Summary of Arsenic in Groundwater Samples

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Location	Sample ID	Sample Date	Arsenic Result (ug/L)	FDEP GCTL	REGION 9 PRG
JAX47-MW18S	MW18S-113006	11/30/06	4 U	10	0.045
JAX47-MW19S	MW19S-120506	12/05/06	4 U	10	0.045
JAX47-MW20S	MW20S-113006	11/30/06	4 U	10	0.045
JAX47-MW23S	MW23S-120506	12/05/06	4 U	10	0.045
JAX47-MW24D	MW24D-120506	12/05/06	4 U	10	0.045
JAX47-MW25S	MW25S-120806	12/08/06	4.1	10	0.045
JAX47-MW26S	MW26S-120806	12/08/06	4 U	10	0.045
JAX47-MW27S	MW27S-113006	11/30/06	4 U	10	0.045
JAX47-MW28S	MW28S-120806	12/08/06	4 U	10	0.045
JAX47-MW29S	MW29S-030907	03/09/07	4 U	10	0.045
JAX47-MW30S	MW30S-030907	03/09/07	4 U	10	0.045
JAX47-MW31D	MW31D-030907	03/09/07	4 U	10	0.045
USGS-DSMW46	USGS(D)-040902	04/09/02	2.15 U	10	0.045
USGS-SSMW45	USGS(S)-040902	04/09/02	2.15 U	10	0.045
USGS-SSMW45	USGS(S)-113006	11/30/06	4 U	10	0.045

Notes:

GCTL = Groundwater Cleanup Target Level

J = estimated value

U = less than laboratory detection limit

µg/L = micrograms per liter

Concentrations in bold exceed Florida GCTL

PRG - preliminary remediation goal

results from the arsenic sampling events. Concentrations exceeding GCTLs for arsenic is illustrated on Figure 5-12. The validated laboratory packages are included in Appendix J. Monitoring well MW14S (downgradient), MW28S (cross-gradient) and MW31D (deep vertical well in center of "hot spot") were installed to further delineate the arsenic "hot spot" during Phase III. All site wells sampled in 2006/2007 during Phase III were analyzed for arsenic. Three wells (MW02S, MW03S, and MW05S), all located immediately southwest of of DVECC, were found to have significant concentrations of arsenic exceeding GCTLs (see Figure 5-12). This arsenic "hot spot" is located in the general vicinity of the UST mixing tanks that were removed from DVECC. Concentrations ranged from 6240 µg/L in MW03S and 6640 µg/L in MW02S to 2100 in MW05S during the most recent sampling event conducted in April 2007. No arsenic exceedances were detected in down-gradient wells (MW14S, MW14D, MW15S, MW15D, and MW28S) or deep well MW31D (screened 48 to 53 ft bls). The arsenic "hot spot" is confined to the shallow portion of the aquifer and has not migrated with groundwater flow (generally northwest). Groundwater contour maps were provided in Section 2 as Figures 2-7 through 2-12.

The location and concentration of the arsenic "hot spot" has not changed since being first detected in 2004. There were two spikes in arsenic concentration in monitoring wells MW03S (2006 – 23,000 µg/L) and MW04S (2006 -5,880 µg/L) but resampling (4 months later in 2007) of these two wells showed reported concentrations of 6,240 µg/L and 18.3 µg/L, respectively. Down-gradient wells have not had any reported GCTL exceedances which indicates that migration of the arsenic plume does not appear to be occurring with groundwater flow. Overall, there appears to be a very small highly concentrated arsenic plume located in the shallow aquifer in the general vicinity of the former DVECC mixing tanks.

5.3.2.4 Natural Attenuation Sampling

Field natural attenuation parameters (carbon dioxide, alkalinity, ferrous iron, hydrogen sulfide, sulfide, and manganese were collected from the site wells present before MW21S through MW31D were installed. See Table 5-14 for field natural attenuation data. Twenty-six wells were sampled for laboratory natural attenuation parameters during Phase II groundwater sampling. A list of wells sampled along with natural attenuation parameters is provided in Appendix D, Table D-3. Results of the Phase II laboratory natural attenuation sampling are provided in Table 5-15.

5.4 DISCUSSION OF RI RESULTS

The most common COCs at PSC 47 that exceed screening criteria are organochlorine pesticides and VOCs. VOC contamination is mainly a groundwater concern, whereas significant concentrations of pesticide constituents are present in both soil and groundwater. The types of TCL pesticides present reflect both the nature of the materials handled at PSC 47 and its historical use for pesticide mixing, application training, and equipment cleaning and maintenance. The presence of petroleum

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR ARSENIC EXCEEDANCE IN GROUNDWATER TAG LAYOUT 5/11/07 SP

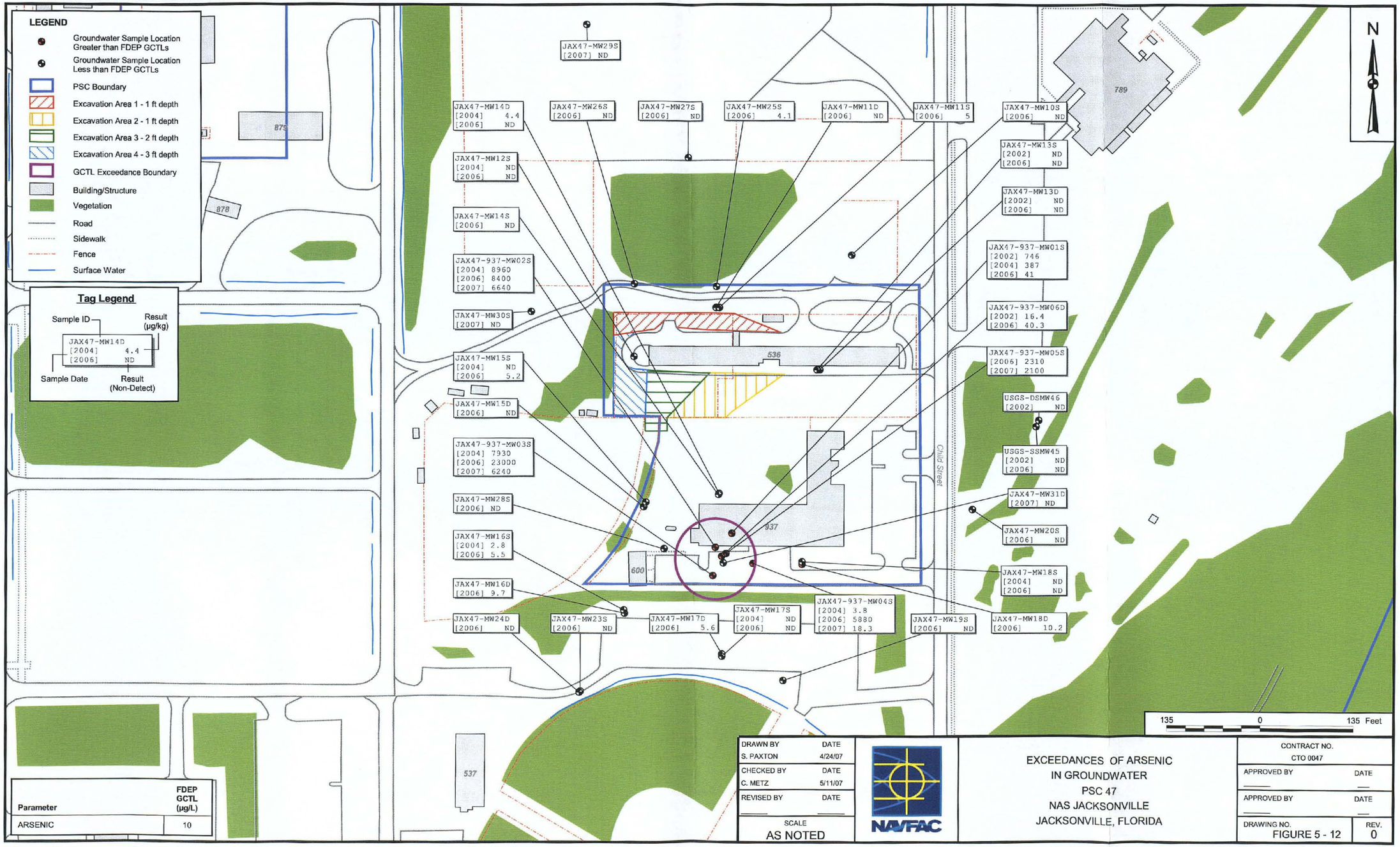


Table 5-14
Field Results for Natural Attenuation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID		JAX-47-						
		937-MW1S	**937-MW02S**	**937-MW3S**	**937-MW4S**	**937-MW5S**	**937-MW6D**	**536-MW03**
Sample Date		11-Apr-02	10-Apr-02	11-Apr-02	11-Apr-02	10-Apr-02	11-Apr-02	9-Apr-02
Parameter	**Units**							
Dissolved Oxygen[1]	mg/L	0.3	1	0.8	No data	1	0.6	2
Alkalinity[2]	mg/L	18	50	25	<10	250	11	60
Carbon Dioxide[2]	mg/L	150	170	70	No data	30	40	110
Ferrous Iron[3]	mg/L	>3.3	3.25	3.25	>3.30	3.16	3.16	3.18
Manganese[3]	mg/L	0	0.4	0	0.9	0.5	0	0
Dissolved Sufide[3]	mg/L	0.25	0.04	0.06	>0.8	0.02	0.03	0.38
Hydrogen Sulfide[4]	mg/L	No data	0.1	0.3	>5	0.3	0	5
pH[5]	--	5.48	5.61	5.52	4.75	6.52	5.28	5.98
Specific Conductivity[5]	mS/cm	37.31	104.5	15.62	124.3	216.2	34.63	29.79
Temperature[5]	Celsius	21.9°	22.3°	21.06°	23.56°	23.15°	23.2°	23.0°
ORP[5]	mV	13.8	83	38.9	-95.5	-46.7	128.3	-42

See notes at end of table.

Table 5-14 (Continued)
Field Results for Natural Attenuation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID		JAX-47-						
		MW10S	**MW11D**	**MW11S**	**MW12S**	**MW13D**	**MW13S**	**MW14D**
Sample Date		9-Apr-02	4-Apr-02	4-Apr-02	10-Apr-02	4-Apr-02	4-Apr-02	10-Apr-02
Parameter	**Units**							
Dissolved Oxygen[1]	mg/L	1	0.5	0.4	2	0.4	0.3	2
Alkalinity[2]	mg/L	35	No data	No data	0	No data	No data	70
Carbon Dioxide[2]	mg/L	100	No data	No data	35	No data	No data	16
Ferrous Iron[3]	mg/L	0.25	0.23	0.56	0.04	1.77	0.09	0.18
Manganese[3]	mg/L	0	0.2	0.2	0.1	0	0.3	0
Dissolved Sufide[3]	mg/L	0.13	0.03	0.01	0.00	0.72	0.00	0.03
Hydrogen Sulfide[4]	mg/L	0	0	0	0	0	0	0
pH[5]	--	5.57	7.41	4.53	4.45	6.18	4.66	6.57
Specific Conductivity[5]	mS/cm	42.21	39.46	34.13	27.09	11.92	37.94	23.56
Temperature[5]	Celsius	22.35°	22.87°	21.68°	22.26°	24.30°	23.6	22.2°
ORP[5]	mV	230.9	-55	209.3	315	47.8	272	39.2

See notes at end of table.

Table 5-14 (Continued)
Field Results for Natural Attenuation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID		JAX-47-						
		MW15D	MW15S	MW16D	MW16S	MW17D	MW17S	MW18D
Sample Date		8-Apr-02	8-Apr-02	5-Apr-02	5-Apr-02	4-Apr-02	4-Apr-02	4-Apr-02
Parameter	**Units**							
Dissolved Oxygen[1]	mg/L	1.0	2.0	0.3	4.0	1.0	0	0.4
Alkalinity[2]	mg/L	70	0	45	<10	No data	No data	35
Carbon Dioxide[2]	mg/L	18	30	40	50	No data	No data	35
Ferrous Iron[3]	mg/L	0.28	0	>3.30	1.36	>3.30	>3.30	>3.30
Manganese[3]	mg/L	0	0.4	0.2	0.5	0.1	0.003	0.3
Dissolved Sufide[3]	mg/L	0.02	0.04	0.02	>0.8	0.27	0.78	0.05
Hydrogen Sulfide[4]	mg/L	0	0	0	5.0	0	5.0	0
pH[5]	--	6.45	5.00	6.04	5.43	6.08	5.35	5.87
Specific Conductivity[5]	mS/cm	24.04	17.01	67.33	31.25	62.24	59.1	63.72
Temperature[5]	Celsius	22.91°	22.10°	23.55°	21.92°	25.52°	24.89°	22.16°
ORP[5]	mV	49.3	93	60.4	-28.6	37.1	-77.8	83.9

See notes at end of table.

Table 5-14 (Continued)
Field Results for Natural Attenuation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID		JAX-47-				
		MW18S	**MW19S**	**MW20S**	**USGS (D)**	**USGS(S)**
Sample Date		5-Apr-02	12-Apr-02	9-Apr-02	9-Apr-02	9-Apr-02
Parameter	**Units**					
Dissolved Oxygen[1]	mg/L	1	1	2	1	2
Alkalinity[2]	mg/L	<10	75	0	0	0
Carbon Dioxide[2]	mg/L	70	40	130	0	40
Ferrous Iron[3]	mg/L	>3.3	0.34	3.09	0.21	3.01
Manganese[3]	mg/L	0.2	0.1	0.2	0	1
Dissolved Sufide[3]	mg/L	0.04	0.1	0.12	0.07	0.04
Hydrogen Sulfide[4]	mg/L	5	0	0	0	0
pH[5]	--	5.24	6.21	4.36	4.62	4.63
Specific Conductivity[5]	mS/cm	37.00	41.00	56.51	31.21	63.22
Temperature[5]	Celsius	20.66°	22.0°	22.6°	21.6°	20.22°
ORP[5]	mV	-14.5	-17.8	288	295	116.2

[1] - Analyzed using CHEMetrics
[2] - Analyzed using CHEMetrics titrets
[3] - Analyzed using HACH DR-890 Colorimeter
[4] - Analyzed using HS-C Test Kit
[5] -Analyzed usingYSI water quality instrument
mg/L - milligrams per liter
mS/cm - microsiemens per centimeter
mV - millivolts

Table 5-15
Laboratory Analytical Results for Natural Attenuation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID		JAX-47-						
		937-MW1S	937-MW02S	937-MW3S	937-MW4S	937-MW5S	937-MW6D	536-MW03
Sample Date		11-Apr-02	10-Apr-02	11-Apr-02	11-Apr-02	10-Apr-02	11-Apr-02	9-Apr-02
Parameter	**Units**							
Nitrate	mg/L	0.57	0.050 U	0.06	5	0.050 U	0.050 U	0.050 U
Nitrite	mg/L	0.050 U	0.050 U	0.050 U	0.06	0.050 U	0.050 U	0.050 U
Ammonia	mg/L	0.1 U	0.4	0.4	0.1	0.77	0.1 U	1.8
TKN	mg/L	0.56	1.1	1.1	2	1.4	0.10 U	5.4
Chloride	mg/L	57	170	23	94	53	28	33
Dissolved Sulfide	mg/L	8	4 U	3	10	4.0 U	4.0 U	4.0 U
Sulfate	mg/L	130	370	19	120	240	33	4.0 U
Dissolved Iron	mg/L	30.2	10.6	6.02	42.3	9.24	14.9	12.6
Dissolved Manganese	mg/L	0.0383	0.202	0.0798	0.482	0.212	0.0207	0.0193
Ethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methane	µg/L	4000	410	63	3000	76	260	1800
Biological Oxygen Demand	mg/L	6.0 UJ	6.0 UJ	6.0 UJ	90.0 J	6.0 UJ	6.0 UJ	24
Chemical Oxygen Demand	mg/L	30	70	99	340	50	15 U	490
Total Organic Carbon	mg/L	50	82	79	130	79	19	10

See notes at end of table.

Table 5-15 (Continued)
Laboratory Analytical Results for Natural Attenuation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID		JAX-47-						
		MW10S	MW11D	MW11S	MW12S	MW13D	MW13S	MW14D
Sample Date		9-Apr-02	4-Apr-02	4-Apr-02	10-Apr-02	4-Apr-02	4-Apr-02	10-Apr-02
Parameter	**Units**							
Nitrate	mg/L	3.4	0.050 U	3.4	1.3	0.050	0.43	0.050 U
Nitrite	mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Ammonia	mg/L	0.10 U	0.10 U	0.10	0.10 U	0.10 U	0.10 U	0.10 U
TKN	mg/L	0.3 U	0.10 U	0.57 U	0.10 U	0.2 U	0.1 U	0.1
Chloride	mg/L	3	10	18	14	12	12	6
Dissolved Sulfide	mg/L	4.0 U	2.0 UJ	1.0 UJ	10	2.0 UJ	2.0 UJ	4.0 U
Sulfate	mg/L	38	59	39	37	4.0 U	99	85
Dissolved Iron	mg/L	0.0411 U	0.172	0.328	0.0069 u	1.49	2.9	0.579
Dissolved Manganese	mg/L	0.0083	0.114	0.0152	0.0506	0.0279	0.0661	0.29
Ethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methane	µg/L	10 U	10 U	480	10 U	10 U	13	44
Biological Oxygen Demand	mg/L	6.0 U	6.0 U	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 UJ
Chemical Oxygen Demand	mg/L	15 U	15.0 U	20	15.0 U	20	20	15 U
Total Organic Carbon	mg/L	4	4.0	12	34.0	6	8.2	21

See notes at end of table.

Table 5-15 (Continued)
Laboratory Analytical Results for Natural Attenuation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID		JAX-47-						
		MW15D	MW15S	MW16D	MW16S	MW17D	MW17S	MW18D
Sample Date		8-Apr-02	8-Apr-02	5-Apr-02	5-Apr-02	4-Apr-02	4-Apr-02	4-Apr-02
Parameter	**Units**							
Nitrate	mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Nitrite	mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Ammonia	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
TKN	mg/L	0.10 U	0.2 U	0.10 U	1.1	0.1 U	0.1 U	0.1 U
Chloride	mg/L	8	7	18	53	16	15	25
Dissolved Sulfide	mg/L	2.0 U	1 U	2.0 U	1.0 U	2.0 UJ	2.0 UJ	2.0 U
Sulfate	mg/L	5	8	73	69	26	66	62
Dissolved Iron	mg/L	0.526	0.402	6.45	1.4	5.07	17.3	7.81
Dissolved Manganese	mg/L	0.0628	0.0099	0.264	0.0195	0.258	0.03	0.31
Ethane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethene	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methane	µg/L	110	20	190	62	5000	24	19
Biological Oxygen Demand	mg/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Chemical Oxygen Demand	mg/L	15 U	20	15 U	83	15 U	20	15 U
Total Organic Carbon	mg/L	3	6	4	20	5.2	5.8	3

See notes at end of table

Table 5-15(Continued)
Laboratory Analytical Results for Natural Attenuation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID		JAX-47-									
		MW18S		MW19S		MW20S		USGS (D)		USGS(S)	
Sample Date		5-Apr-02		12-Apr-02		9-Apr-02		9-Apr-02		9-Apr-02	
Parameter	**Units**										
Nitrate	mg/L	0.050	U	0.050	U	35		0.050	U	0.64	
Nitrite	mg/L	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Ammonia	mg/L	0.10	U	0.10	U	0.10	U	0.10	U	0.3	
TKN	mg/L	0.54	U	0.3		0.10	U	0.10	U	0.73	
Chloride	mg/L	83		5		16		17		27	
Dissolved Sulfide	mg/L	2.0	U	1		4.0	U	4.0	U	9.0	
Sulfate	mg/L	66		20		150		56		94	
Dissolved Iron	mg/L	6.61		0.32		4.92		2.29		25.8	
Dissolved Manganese	mg/L	0.0113		0.0045		0.081		0.0292		0.0146	
Ethane	µg/L	10	U	10	U	10	U	10	U	10	U
Ethene	µg/L	10	U	10	U	10	U	10	U	10	U
Methane	µg/L	80		27		10	U	10	U	11	
Biological Oxygen Demand	mg/L	6.0	U	6.0	UJ	6.0	U	6.0	U	6.0	U
Chemical Oxygen Demand	mg/L	40		20		15	U	15	U	20	
Total Organic Carbon	mg/L	20		13		6.6		2		7.5	

Notes:
U = less than laboratory detection limit.
J = estimated value.

hydrocarbons, PAHs, and chlorinated solvents, is also consistent with the fact that substances containing these compounds were formerly stored on site in ASTs and USTs.

Aside from the former location of the pesticide mixing tank south of Building 937 and the former location of an AST south of the Pesticide Shop allegedly used for storage of a diesel-malathion mixture ("hot fogger"), current or former source areas of pesticide contamination cannot be traced to bulk storage or to a suspected sole point source(s). Instead, only isolated spill events, training exercises involving pesticide usage conducted over limited time periods, and temporary storage of pesticide compounds in 55-gallon drums, have been documented as possible sources of elevated pesticide concentrations in soil and groundwater at PSC 47. Consequently, the task of defining three-dimensional plume boundaries where pesticide compounds exceed regulatory criteria is essentially a "hit-and-miss" proposition in which the objective is to identify isolated areas where relatively small quantities of pesticides were disposed of or applied, either intentionally or by accident.

Results of the RI and previous sampling events show that soil and groundwater at PSC 47 have been impacted with COCs in excess of regulatory thresholds. Surface water and sediment are not present at the site. Review of this data allows for a conceptual understanding of data trends that are important to consider in the evaluation of fate and transport aspects, potential risks to human health, potential risks to ecological receptors, and potential remedies.

5.4.1 Soil

Pesticide concentrations exceeding residential screening criteria, including numerous values exceeding industrial and leachability SCTLs, are present in soils surrounding Building 536 despite removal of approximately 1,300 cubic yards of soil in 1999. Surface soil contamination (0-2 ft bls) is mainly present in the non-excavated areas surrounding Building 536. Impacted subsurface soils are primarily concentrated to the southern half of fenced area confining Building 536, beyond either the lateral or vertical boundary of the 1999 soil removal area. Limited surface and subsurface soil contamination is present in the drainage swell located immediately southeast of Building 536 and adjacent to Child Street.

The most frequently identified pesticide compounds remaining in soils at PSC 47, as determined by the current study and post-excavation soil sampling by BEI (1999), are essentially the same as those reported by HLA in 1997 before the soil removal action (i.e., 4,4'-DDD, 4,4'-DDT, DDE, dieldrin, and BHC isomers). Pesticide compounds whose breadth of occurrence was most significantly reduced by the removal action, based upon comparison of detection frequencies in before-and-after soil samples, were chlordane, endrin, and aldrin.

As shown on Figure 5-1, three general areas of surface soil contamination exceeding residential SCTLs were identified. The largest area of surface soil contamination is located around Building 536. Two smaller areas (area off southwest corner of Building 937 under existing parking lot and area in drainage swell located where SB058A was collected) of surface soil contamination are located on the southern portion of the PSC. Surface soil contains pesticide COCs in excess of residential, industrial, and leachability SCTLs over a large portion of the Building 536 site. Surface soil industrial and leachability exceedances were shown on Figures 5-2 and 5-3, respectively. SB001, SB010, and SB016 sampling results indicate that the drainage swale adjacent to Building 536 is also impacted with pesticide COCs. There is a small area of arsenic contaminated surface soil that is located of the southwest corner of Building 937. This small area of arsenic contamination only exceeds residential SCTLs and is present underneath an existing asphalt parking lot utilized by the tenants of Building 937. The surface soil around SB58A contains concentrations of 4,4'-DDT at concentrations exceeding residential, industrial, and leachability SCTLs.

Subsurface soil sampling results indicate that arsenic and various pesticide COCs are present at PSC 47. Pesticide COCs were found predominantly in the subsurface soil samples collected from within the fenced area on the south side of Building 536 and in the drainage swell located immediately southeast of this building. Exceedances of residential, industrial, and leachability SCTLs are shown on Figures 5-4, 5-5, and 5-6, respectively, for the fenced area on the south side of Building 536 and associated drainage swell. Arsenic exceedances were located predominantly on the south side of Building 536 (except for SB084 located on north side), but were isolated to a small area off the southwest corner of Building 937. Both residential and industrial exceedances of the arsenic SCTL were reported for both areas. One subsurface soil sample location (SB0010) collected in the drainage swell southeast of Building 536 had a reported benzo(a)pyrene equivalent concentration that exceeded its respective residential SCTL. This sample was collected from the drainage swale and may represent sedimentary deposits and runoff from the adjacent road (Child Street) and/or parking lot associated with Building 937.

5.4.2 Groundwater

Significant differences exist between the composition of pesticide contamination in soil as opposed to that in groundwater. For example, no surface soil samples and only one subsurface soil sample (3 to 4 ft bls) had reported concentrations of BHC isomers exceeding residential SCTLs in the vicinity of the Pesticide Shop, whereas concentrations of these compounds exceeding GCTLs were common in groundwater samples collected in this area. Accountability for this difference is assumed to lie primarily in the varying solubility of the pesticide compounds or, as in the case of the BHC isomers, in their extremely low GCTL values compared to their residential and industrial SCTLs.

The estimated pesticide groundwater contamination plume from the shallow portion of the aquifer underlying PSC 47 is depicted on Figure 5-10. This figure should be considered a general depiction of impacted groundwater and does not depict GCTL exceedances for any one pesticide compound. Two main areas (northern and southern plume) of shallow groundwater contamination are shown on this figure: one large area around Building 536 (northern plume extending slightly to the northwest) and one smaller area at the southwest end of Building 937 (southern plume extending from the west end of Building 937 to the south, near the MW17 well pair). An isolated pesticide detection (dieldrin) was reported in monitoring well MW20S (located east of PSC 47 boundary on the NAS JAX golf course) and is believed to be related to the golf course and not PSC 47. Two monitoring wells [MW13D (northern plume), and MW17D (southern plume)] screened in the deeper portions of the shallow aquifer had compounds that exceeded GCTLs. Each of these wells had only one GCTL exceedance reported during the most recent (2006) sampling event. The downward migration is believed to have been predominantly caused by the downward vertical gradient in these areas. A confining unit begins below our deepest samples and is believed to contain any downward migration of contaminants.

The estimated VOC/SVOC plume boundaries in the shallow portion of the surficial aquifer are illustrated on Figure 5-11. This figure should be considered a general depiction of impacted groundwater and does not depict GCTL exceedances for any one VOC/SVOC compound. The VOC and SVOC concentrations exceeding GCTLs are relatively coincidental with areas of pesticide contamination except the northern plume is significantly smaller. As with the pesticide figure, two areas were identified: one in the vicinity of the removed DVECC tank and one centered on the north central side of the Pesticide Shop. The suspected source(s) of VOC contamination reported in the area of the Pesticide Shop are the single UST and/or one or both of the ASTs formerly in service at this building (see discussion, Section 1.2.1). The source of VOC/SVOC contamination south of Building 937 is presumably a former used oil UST. Site plans provided by RUST (1995) and BRE (1997) indicate the presence of such a tank approximately 10 ft east of the DVECC pesticide tank, yet none of the available documents describing site historical operations (see Section 3.0) provide a narrative regarding origin, installation date, usage, closure, or disposition of this UST. The source of contamination slightly upgradient to DVECC in monitoring wells MW17S and MW17D, is unknown.

Herbicide compounds were only detected in one sample (JAX47-937-MW03S). The herbicide compounds 2,4,5-T and 2,4-D were detected at estimated concentrations exceeding GCTLs. Herbicide compounds were either not detected or were at concentrations less than GCTLs in other monitoring wells in close proximity to JAX47-937-MW03S.

Arsenic was the only inorganic detected at concentrations exceeding GCTLs during the sampling events. The distribution of arsenic has been limited to a “hot spot” located off the immediate southwest corner of

DVECC where the former mixing tanks had been located. Figure 5-12 shows the estimated extent of groundwater contamination due to arsenic. The area of groundwater contamination is commingled with the pesticide plume. Two wells (MW02S and MW03S) re-sampled in April 2007 had reported concentrations in excess of 6000 µg/L, which is several orders of magnitude greater than the arsenic GCTL of 10 µg/L. Arsenic concentrations have remained in the 6,000 to 9,000 µg/L range in these two wells since 2004 when they were first sampled for arsenic. Monitoring well MW03S had a reported concentration of 23,000 µg/L in 2006, but this concentration decreased to 6,240 µg/L when resampled in 2007 (4 months later). No migration of the arsenic "hot spot" has occurred since its detection in 2004 and there have been no reported detections of arsenic in the downgradient shallow or deep monitoring wells. Since the DVECC tank was removed in 1995 (likely source and location of current arsenic "hot spot"), it is possible the arsenic "hot spot" has not migrated since then, but there is no data to support this assumption.

Inferred direction of groundwater flow, depicted on Figures 2-7 through 2-12 (i.e., northwesterly), is in agreement with flow models generated by the USGS (Davis *et al*, 1996). There has been little downgradient movement of COCs in groundwater from the southern plume (DVECC). Only limited migration (BHC isomers and dieldrin in MW27S) has been noticed in the northern plume since the time of release, judging from groundwater analytical data and from inferred plume geometries as described in the previous paragraph. Lack of significant COC concentrations at downgradient locations is likely due to the site's flat topography and resultant flat hydraulic gradient and relatively slow groundwater velocity and/or to dispersion, adsorption, and/or natural attenuation of released compounds.

Overall, soils contaminated with pesticides are present in a large area around the Pesticide Shop but are mostly confined within the site fence boundary, except for the drainage swell to the southeast of this building. Groundwater contamination can be separated into two plumes, a northern and southern plume. The northern plume consists primarily of low concentrations of pesticides that are centered around the Pesticide Shop. The southern plume is a mixture of pesticides, arsenic, and VOCs that is centered between monitoring well pair MW17 and the west end of DVECC where the former UST mixing tanks were located. A small arsenic "hot spot" is located within the southern plume in the area of the former mixing tanks.

6.0 CHEMICAL FATE AND TRANSPORT ANALYSIS

Knowledge of a contaminant's potential to migrate and persist in an environmental medium is critical when evaluating the potential for a chemical to produce an adverse human health or ecological effect. This section contains information on various aspects of contaminant fate and transport and the chemical properties affecting contaminant migration at PSC 47. Section 6.1 contains a general discussion of the various chemical and physical properties of significant contaminants detected in all media. The various contaminant transport pathways are reviewed in Section 6.2. A brief discussion of contaminant fate (persistence) and migration is presented in Section 6.3. A discussion and evaluation of biodegradation and natural attenuation for each plume (i.e., North Plume and South Plume) is presented in Section 6.4. A conceptual model is presented for each of the two plumes in Section 6.5.

6.1 CHEMICAL AND PHYSICAL PROPERTIES IMPACTING FATE AND TRANSPORT

The physical and chemical properties of the organic compounds detected in soil and groundwater at PSC 47 are presented in Table 6-1. Environmental fate and transport characteristics of inorganics detected at the site are provided in Table 6-2. These properties can be used to determine the environmental mobility and fate of site contaminants. The properties of interest include the following:

- Specific gravity
- Vapor pressure
- Water solubility
- Octanol/water partition coefficient
- Organic carbon partition coefficient
- Henry's Law constant
- Bioconcentration factor
- Distribution Coefficient
- Mobility index

Empirically determined literature values of the water solubility, octanol/water partition coefficient, organic carbon partition coefficient, vapor pressure, Henry's Law constant, bioconcentration factor, and specific gravity are presented, when available. Calculated values, which were obtained using approximation methods, are presented when literature values are not available. A discussion of the environmental significance of each of these parameters follows.

Table 6-1
Environmental Fate and Transport Parameters for Organic Chemicals

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	Specific Gravity (@ 20/4°C)[2]	Vapor Pressure (mm Hg @ 20°C)[2]	Solubility (mg/L @ 20°C)[2]	Octanol/Water Partition Coefficient[2]	Organic Carbon Partition Coefficient[4]	Henry's Law Constant (atm-m3/mole)[2]	Bioconcentration Factor (mg/L/mg/kg)[4]	Mobility Index log((solubility*VP)/K_{oc})
KETONES								
2-Butanone	0.8054	1.0E+2 (25°C)	2.75E+05	1.82E+00	4.44E+0(6)	4.66E-5 (25°C)	9.3E-1(5)	6.79E+00
2-Hexanone	0.8113	2.00E+00	1.64E+04	2.40E+01	1.35E+02	1.75E-03	7.00E+00	2.39E+00
4-Methyl-2-pentanone	0.7978 (20°C)	1.0E+1 (30°C)	1.91E+04	1.23E+01	5.30E+0(6)	1.49E-5 (25°C)	3.9E+0(5)	4.56E+00
Acetone	0.7899	2.66E+2 (25°C)	Miscible	5.75E-01	5.75E-01	3.88E-05	3.81E-1(5)	NA
MONOCYCLIC AROMATICS								
1,2,4-Trichlorobenzene	1.459	4.60E-01	3.00E+02	9.55E+03	1.78E+03	1.42E-03	6.50E+02	-1.11E+00
1,2-Dichlorobenzene	1.3059	1.36E+00	1.56E+02	2.40E+03	6.17E+02	1.50E-03	2.30E+02	-4.64E-01
1,3-Dichlorobenzene	1.2884	2.15E+00	1.33E+02	3.24E+03	7.21E+02	3.10E-03	3.20E+02	-4.02E-01
1,4-Dichlorobenzene	1.29	1.20E+00	7.38E+01(3)	2.63E+03(3)	6.16E+02(3)	2.43E-03	2.3E+02(5)	-8.42E-01
2-Methylphenol	1.047	2.99E-01	2.60E+04	9.55E+01	9.12E+01	1.20E-06	1.60E+01	1.93E+00
4-Methylphenol	1.0178	1.1E-1 (25°C)	2.4E+4 (25°C)	8.32E+01	1.15E+02	3.92E-07	1.7E+1(5)	1.36E+00
Benzene	0.8765	9.50E+01	1.75E+03	1.35E+02	5.89E+01	5.56E-03	3.70E+01	3.45E+00
Chlorobenzene	1.11	1.18E+01	4.72E+02(3)	7.24E+02(3)	2.24E+02(3)	3.71E-03	7.9E+01(5)	1.40E+00
Ethylbenzene	0.867	9.6 (25°C)	1.52E+02	1.41E+03	2.04E+02(7)	7.88E-03	4.70E+02	8.54E-01
Toluene	0.8669	2.8E+1 (25°C)	5.15E+02	4.90E+02	1.4E+02 (7)	6.63E-03	1.48E+02	2.01E+00
Xylenes (Total)	0.86104-0.8801	7.99 (25°C)	1.6E+2-1.75E+2(5)	5.89E+2-1.58E+3	1.96E+02-3.11E+02(7)	5.25E-03	7.5E+1-1.59E+2(5)	7.53E-01
HALOGENATED ALIPHATICS								
1,1-Dichloroethane	1.1757	2.34E+2 (25°C)	5.50E+03	1.67E+01	5.34E+01 (7)	5.871E-3 (25°C)	1.90E+01	4.38E+00
1,1-Dichloroethene	1.218	5.91E+2 (25°C)	2.1E+2 (25°C)	3.02E+01	6.5E+01 (7)	2.286E-2 (25°C)	5.30E+01	3.28E+00
1,2-Dichloroethane	1.2351	7.90E+01	8.52E+02	2.95E+01	3.8E+01 (7)	9.78E-04	8.10E+00	3.25E+00
Chloroform	1.4832	1.60E+02	9.3E+3 (25°C)	9.33E+01	5.25E+01 (7)	3.66E-03	2.60E+01	4.45E+00
Chloromethane	0.9159	3.80E+03	6.36E+03	8.13E+00	4.30E+00	8.82E-03	3.20E+00	6.75E+00
cis-1,2-Dichloroethene	1.2837	2.02E+2 (25°C)	8.00E+02	1.58E+02	3.55E+01 (7)	4.07E-03	1.4E+1(3)	3.66E+00
Tetrachloroethene	1.6227	1.85E+1 (25°C)	1.5E+2 (25°C)	3.39E+02	2.65E+02 (7)	1.84E-02	26 - 77	2.00E-02
Trichloroethene	1.4624	7.10E+01	1.10E+03	5.13E+02	9.43E+01 (7)	1.03E-02	4 - 39	2.92E+00
Vinyl chloride	0.9106	2.58E+03	1.1E+3 (25°C)	3.98E+00	1.86E+01 (7)	2.71E-02	5.70E+00	5.18E+00
MISCELLANEOUS VOLATILE ORGANICS								
Methyl Acetate	0.934	2.16E+2 (25°C)	2.44E+05	6.61E-01	3.00E+01	1.15E-04	8.00E-01	6.24E+00
Carbon disulfide	1.2632	2.98E+02	2.90E+03	1.45E+04	4.57E+01 (7)	1.921E-2 (25°C)	2.6E+1 (5)	4.28E+00
Methyl Cyclohexane	0.76	4.30E+01	1.40E+01	9.12E+02	2.21E+03	4.3E-1 (25°C)	NA	-5.65E-01
Isopropylbenzene	0.862	4.50E+00	6.13E+01	3.16E+03	2.29E+03	1.31E-02	2.70E+02	-9.19E-01
Methyl tert butyl ether	0.7405	2.50E+02	5.10E+04	8.71E+00	1.12E+01	5.87E-04	3.10E+00	6.06E+00

Table 6-1
Environmental Fate and Transport Parameters for Organic Chemicals

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	Specific Gravity (@ 20/4°C)[2]	Vapor Pressure (mm Hg @ 20°C)[2]	Solubility (mg/L @ 20°C)[2]	Octanol/Water Partition Coefficient[2]	Organic Carbon Partition Coefficient[4]	Henry's Law Constant (atm-m3/mole)[2]	Bioconcentration Factor (mg/L/mg/kg)[4]	Mobility Index log((solubility*VP)/K_{oc})
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)								
2-Methylnaphthalene	1.0058	6.81E-2 (25°C)	2.6E+1 (25°C)	7.24E+03	7.27E+2 (6)	5.80E-05	5.1E+2 (5)	-2.61E+00
Benzo(a)anthracene	1.274	5.00E-09	1E-2 (24°C)	4.07E+05	3.58E+05 (7)	6.60E-07	5.30E+04	-1.59E+01
Benzo(a)pyrene	1.351	5.00E-09	3.8E-3 (25°C)	9.55E+05	9.69E+05 (7)	4.9E-7 (25°C)	1.40E+05	-1.67E+01
Benzo(b)fluoranthene	NA	5.00E-07	1.2E-3 (25°C)	3.72E+06	1.23E+06 (7)	1.20E-05	1.40E+05	-1.53E+01
Benzo(g,h,i)perylene	1.35	1.00E-10	2.6E-4 (25°C)	1.70E+07	1.60E+06	1.4E-7 (25°C)	3.50E+05	-1.98E+01
Benzo(k)fluoranthene	NA	9.59E-11	5.5E-4 (25°C)	6.92E+06	1.23E+06 (7)	1.04E-03	1.40E+05	-1.94E+01
Chrysene	1.274 (20°C)	6.3E-9 (25°C)	6E-3 (25°C)	4.07E+05	3.98E+05 (7)	1.05E-6 (25°C)	5.30E+04	-1.60E+01
Dibenzo(a,h)anthracene	1.282	1.00E-10	5E-4 (25°C)	9.33E+05	1.79E+06 (7)	7.3E-8 (25°C)	6.90E+05	-1.99E+01
Fluoranthene	1.252	5.0E-6 (25°C)	2.65E-1 (25°C)	2.14E+05	4.91E+04 (7)	6.5E-6 (25°C)	1.20E+04	-1.06E+01
Fluorene	1.202	6.0E-4 (25°C)	1.98E+00	1.62E+04	1.38E+04	6.36E-05	3.80E+03	-7.07E+00
Indeno(1,2,3-cd)pyrene	NA	1E-10 (25°C)	6.20E-02	4.57E+07	3.47E+06 (7)	6.95E-8 (25°C)	3.50E+05	-1.77E+01
Naphthalene	1.162	8.2E-2 (25°C)	3E+1 (25°C)	2.34E+03	1.19E+03 (7)	4.83E-4 (25°C)	4.20E+02	-2.68E+00
Phenanthrene	0.980 (4°C)	5.0E-4 (25°C)	8.5E-1 (25°C)	2.88E+04	1.40E+04	3.93E-5 (25°C)	4.70E+03	-8.52E+00
Pyrene	1.271 (23/4°C)	2.5E+0 (200°C)	1.6E-1 (26°C)	1.51E+05	6.8E+04 (7)	5.1E-6 (25°C)	1.20E+04	-5.21E+00
PHTHALATE ESTERS								
Bis(2-ethylhexyl)phthalate	0.99 (20/20°C)	7.23E-08	4E-1 (25°C)	2.00E+05	1.10E-05	3.00E-07	115 - 851	-2.57E+00
Butylbenzylphthalate	1.113	8.60E-06	7.10E-01	6.92E+04	5.75E+04	1.26E-06	7.72E+02	-9.97E+00
Diethylphthalate	1.1175	2.1E-3 (25°C)	1.08E+3 (25°C)	9.12E+02	8.22E+01 (7)	8.46E-07	1.07E+02	-1.56E+00
Dimethylphthalate	1.19 (25/25°C)	1.00E-02	5.00E+03	3.98E+01	8.0E+01-3.6E+02	2.00E-07	4.7E+00-5.7E+01	- 2.04E-01 to -8.57E-01
Di-n-butylphthalate	1.047 (20/20°C)	2.01E-5 (25°C)	1.3E+1 (25°C)	1.58E+05	1.57E+03 (7)	2.8E-7 (25°C)	4.70E+04	-6.78E+00
PESTICIDES								
4,4'-DDD	1.476	1.35E-06 (25°C)	1.6E-1 (24°C)	9.77E+05	4.58E+04 (7)	2.16E-05	1.80E+05	-1.13E+01
4,4'-DDE	NA	6.50E-06	4.00E-02	4.90E+05	8.64E+04 (7)	2.34E-05	8.90E+05	-1.15E+01
4,4'-DDT	1.5 (15/4°C)	1.50E-07	3.1E-3 (25°C)	1.55E+06	6.78E+05 (7)	3.89E-5 (25°C)	6.0E+02 - 8.5E+04	-1.52E+01
Aldrin	1.18	2.31E-05	1.80E-01	3.16E+06	2.45E+06	6.97E-03	1.10E+02	-1.18E+01
alpha-BHC	1.87	4.50E-05	2.00E+00	6.31E+03	1.23E+03	1.05E-05	2E+02 - 2E+03	-7.14E+00
alpha-Chlordane (11)	1.61 (25°C)	1E-5 (25°C)	5.60E-02	6.03E+02	1.20E+05	4.79E-05 (25°C)	4.00E+04	-1.13E+01
beta-BHC	1.89	2.80E-07	7.00E-01	6.03E+03	1.06E+03	6.90E-07	6.31E+02	-9.73E+00
delta-BHC	1.87	1.75E-05	1.7E+01 (24°C)	1.38E+04	7.1E+02 - 2.7E+03	3.84E-07	8.00E+02	- 6.37E-01 to -6.96E-01
Dieldrin	1.75	1.8E-7 (25°C)	1.86E-01	1.23E+04	2.55E+04 (7)	5.84E-5 (25°C)	3.3E+03-1.4E+04	-1.19E+01
Endrin	1.65 (25°C)	2.0E-7 (25°C)	2.5E-01(3)	1.15E+05(3)	1.08E+04(7)	7.52E-06(3)	1.8E+03(5)	-1.13E+01
Endrin aldehyde	1.65 (25°C)	2.0E-7 (25°C)	2.5E-01(3)	1.15E+05(3)	1.08E+04(7)	7.52E-06(3)	1.8E+03(5)	-1.13E+01
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	1.61 (25°C)	1E-5 (25°C)	6.80E+00	5.37E+03	1.07E+03	1.40E-05	4.00E+04	-1.13E+01
gamma-Chlordane (11)	1.61 (25°C)	1E-5 (25°C)	5.60E-02	6.03E+02	1.20E+05	4.79E-05 (25°C)	4.00E+04	-1.13E+01
Heptachlor	1.57 (9°C)	4E-4 (25°C)	5.6E-2 (25°C)	2.51E+04	1.33E+04 - 6.61E+05	2.30E-03	4.40E+03	-9.03E+00
Heptachlor epoxide	NA	3.00E-04	3.5E-1(15°C)	5.00E+00	8.32E+04	3.90E-04	7.50E+03	-8.90E+00
Methoxychlor	1.41 (25°C)	NA	4.0E-02 (24°C)	4.91E+00	1.07E+05	1.60E-05	8.10E+03	NA

Table 6-1
Environmental Fate and Transport Parameters for Organic Chemicals

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	Specific Gravity (@ 20/4°C)[2]	Vapor Pressure (mm Hg @ 20°C)[2]	Solubility (mg/L @ 20°C)[2]	Octanol/Water Partition Coefficient[2]	Organic Carbon Partition Coefficient[4]	Henry's Law Constant (atm-m3/mole)[2]	Bioconcentration Factor (mg/L/mg/kg)[4]	Mobility Index log((solubility*VP)/K_{oc})
HERBICIDES								
2,4'-D	1.42 (25°C)	8.25E-08	5.40E+02	6.46E+02	2.0E+01 - 1.36E+02	8.60E-06	1.00E+00	-6.25E+00
2,4,5-T	1.8	7.50E-08	2.68E+02 (25°C)	1.00E+04	86(sand) - 280(silt)	9.4E-11 (25°C)	2.3E+01 - 4.3E+01	-6.97E+00
Pentachlorophenol	1.978 (8)	1.10E-04	1.40E+01	1.32E+05	1.2E+03 - 2.5E+04	2.45E-08	1.0E+02 - 1.0E+03	-5.91E+00

1 NA - Not Available

2 USEPA, September 1992, Handbook of RCRA Groundwater Monitoring Constituents: Chemical and Physical Properties

3 Lyman et al., 1990; Equation 5-3, Handbook of Chemical Property Estimation Methods.

4 USEPA, December 1982, Aquatic Fate Process Data for Organic Priority Pollutants.

5 Lyman et al., 1990, Eq. 5-2

6 Lyman et al., 1990; Equation 4-5

7 USEPA, July 1996, Soil Screening Guidance.

8 TOXNET (http://toxnet.nlm.nih.gov/) September, 2003
mm = Millimeters
Hg = Mercury

Table 6-2
Relative Mobilities of Inorganics as a Function of Environmental Conditions (Eh, pH)

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

	Environmental Conditions			
Relative Mobility	Oxidizing	Acidic	Neutral/Alkaline	Reducing
Very High			Se	
High	Se, Zn	Se, Zn, Cu, Ni, Hg,Ag		
Medium	Cu, Ni, Hg, Ag, As, Cd	As, Cd	As, Cd	
Low	Pb, Ba, Se	Pb, Ba, Be	Pb, Ba, Be	
Very Low	Fe, Cr	Cr	Cr, Zn, Cu, Ni, Hg, Ag	Cr, Se, Zn, Cu, Ni, Hg, Pb, Ba, Be, Ag

Notes:

As = Arsenic	Fe = Iron
Ag = Silver	Hg = Mercury
Ba = Barium	Ni = Nickel
Be = Beryllium	Pb = Lead
Cd = Cadmium	Se = Selenium
Cr = Chromium	Zn = Zinc
Cu = Copper	Eh = Standard Redox Potential

6.1.1 Specific Gravity

Specific gravity is the ratio of the weight of a given volume of pure chemical at a specified temperature to the weight of the same volume of water at that temperature. Its primary use is to determine whether a chemical will have a tendency to float or sink in water if it is present as a pure chemical or at very high concentrations. Chemicals with a specific gravity greater than 1 will tend to sink, and chemicals with a specific gravity less than 1 will tend to float.

Of the chemicals detected at PSC 47, some of the VOCs (ketones and some monocyclic aromatics, such as benzene) have specific gravities less than 1. Other VOCs (halogenated aliphatics), PAHs, phthalate esters, pesticides, and herbicides have specific gravities greater than 1.

6.1.2 Vapor Pressure

Vapor pressure provides an indication of the rate at which a chemical volatilizes from both soil and water. It is of primary importance at environmental interfaces, particularly at atmospheric interfaces with soil or surface water. Volatilization is not as important when evaluating contaminated groundwater and subsurface soils that are not exposed to the atmosphere. Vapor pressures for ketones, monocyclic aromatics, and halogenated aliphatics are generally many times higher than vapor pressures for pesticides and PAHs. Chemicals with higher vapor pressures are expected to enter the atmosphere much more readily than chemicals with lower vapor pressures. Volatilization can be a significant loss process for VOCs from surface soil. Surface soils at PSC 47 do not contain VOCs. Therefore, volatilization from surface soil should not be an important loss mechanism at the site. Volatilization is not significant for inorganics and pesticides.

6.1.3 Water Solubility

The rate at which a chemical is leached from a waste deposit by infiltrating precipitation is proportional to its water solubility. More soluble chemicals are more readily leached than less soluble chemicals. The water solubilities for organic compounds presented in Table 6-1 indicate that the VOCs are usually several orders of magnitude more water soluble than the PAHs and pesticides.

The solubility of inorganics is strongly influenced by their valence state(s) and forms (hydroxides, oxides, carbonates, etc.). The solubility is also dependent on pH, Eh (redox potential), temperature, and other ionic species in solution (the Debye-Huckel theory). The solubility products reported in the literature vary with the type of complex formed, but generally it can be noted that some complexes (e.g., cadmium and copper) are more soluble than others (e.g., lead and nickel).

6.1.4 Octanol/Water Partition Coefficient

The octanol/water partition coefficient (K_{ow}) is a measure of the equilibrium partitioning of organic chemicals between octanol and water. A linear relationship between the K_{ow} and the uptake of chemicals by fatty tissues of animal and human receptors (the bioconcentration factor) has been established (Lyman et al., 1990). It is also useful in characterizing the sorption of compounds by organic soils where experimental values are not available. The K_{ow} of pesticides, herbicides, and PAHs are typically several orders of magnitude greater than the more soluble VOCs and are, therefore, more likely to partition to fatty tissues. The K_{ow} can also be used to estimate bioconcentration factors in aquatic organisms.

6.1.5 Organic Carbon Partition Coefficient

The organic carbon partition coefficient (K_{oc}) indicates the tendency of a chemical to adhere to soil particles containing organic carbon. Chemicals with high K_{oc} generally have low water solubilities and vice versa. This parameter may be used to infer the relative rates at which the more mobile chemicals (ketones, monocyclic aromatics, and halogenated aliphatics) are transported in the groundwater. Chemicals such as most pesticides and PAHs are relatively immobile in the soil and are preferentially bound to the soil. These compounds are not subject to groundwater transport to the extent that compounds with higher water solubilities are. However, these immobile chemicals can be transported by erosional processes when they are present in surface soil.

6.1.6 Henry's Law Constant

Both the vapor pressure and the water solubility are of use in determining volatilization rates from surface water bodies and from groundwater. The ratio of these two parameters (the Henry's Law constant) is used to calculate the equilibrium chemical concentrations in the vapor (air) phase versus the liquid (water) phase for the dilute solutions commonly encountered in environmental settings. In general, chemicals having a Henry's Law constant of less than 1×10^{-5} atm-m^3/mole, such as pesticides and PAHs, should volatilize very little and be present only in minute amounts in the atmosphere or soil gas. For chemicals with a Henry's Law constant greater than 5×10^{-3} atm-m^3/mole, such as many of the VOCs (halogenated aliphatics), volatilization and diffusion in soil gas could be significant.

6.1.7 Bioconcentration Factor

The bioconcentration factor (BCF) represents the ratio of aquatic-animal-tissue concentration to water concentration. The ratio is both contaminant and species specific. When site-specific values are not measured, literature values are used or the BCF is derived from the octanol/water coefficient. Many of the pesticides and PAHs will bioconcentrate at levels three to five orders of magnitude greater than those concentrations found in the water, whereas VOCs are not as readily bioconcentrated.

6.1.8 Distribution Coefficient

The soil-water distribution coefficient (K_d) is a measure of the equilibrium distribution of a chemical or ion in soil/water systems. The distribution of organic chemicals is a function of both the K_{oc} and the amount of organic carbon (f_{oc}) in the soil ($K_d = K_{oc}.* f_{oc}$). For inorganic ions (e.g., metals), K_d is the ratio of the concentration adsorbed on soil surfaces to the concentration in water. Distribution coefficients for metals vary over several orders of magnitude because the K_d is dependent on the size and charge of the ion and the soil properties governing exchange sites on soil surfaces. Coulomb's Law predicts that the ion with the smallest hydrated radius and the largest charge will be preferentially accumulated over ions with larger radii and smaller charges.

6.1.9 Mobility Index

The mobility index (MI) is a quantitative assessment of mobility that uses water solubility (S), vapor pressure (VP), and the organic carbon partition coefficient (K_{oc}) (Laskowski, 1983). It is defined as

$$MI = \log ((S*VP)/K_{oc})$$

A scale to evaluate MI as presented by Ford and Gurba (1994) is

Relative MI	Mobility Description
> 5	extremely mobile
0 to 5	very mobile
-5 to 0	slightly mobile
-10 to –5	immobile
< -10	very immobile

Of the organic chemicals detected at PSC 47, chlorinated solvents and ketones generally have MIs greater than 5 and are considered extremely mobile. The MIs of monocyclic aromatics, such as chlorobenzene, toluene, and xylenes, range from 0 to 5 and these chemicals are classified as very mobile. Lighter molecular weight PAHs, such as naphthalene, have MIs ranging from -5 to 0 and are considered slightly mobile, and the heavier molecular weight PAHs (e.g., benzo(a)pyrene) are classified as very immobile, having MIs less than -10. The MIs of phthalate esters detected at PSC 47 range from -0.7 (diethyl phthalate) to -10 (butylbenzylphthalate) and are, therefore, classified as slightly mobile to immobile. The MIs of pesticides detected at PSC 47 range from -6.37 (delta-BHC) to -15.8 (DDT); most of the pesticides have MIs less than -10. Therefore, pesticides are generally considered to be very immobile in soil. The MIs of herbicides are less than -5, and these chemicals are classified as immobile. The MIs for organic chemicals detected at PSC 47 are presented in Table 6.1.

The relative mobilities of inorganic ions are presented in Table 6-2. Arsenic is the only inorganic chemical present at PSC 47 that is considered to be a COC. As shown on Table 6-2, the mobility of inorganic arsenic relative to other metals and metalloids is considered to be medium. The USEPA lists the K_d of inorganic arsenic as 27 liters per kilogram (L/kg) at a pH value of 6.0 (USEPA, 2001). Assuming the average bulk density ($þ_d$) of the aquifer materials is approximately 1.6 kg/L, the USEPA given K_d value is 27 L/kg, and the total porosity (n) of the aquifer material is 0.30, then the arsenic retardation factor (R_f) in groundwater flow can be approximated as:

$$R_f = 1 + (K_d * þ_d) / n = 1 + (27 * 1.6) / 0.30 = 145$$

However, laboratory analyses of saturated soil collected from OU 3 during bench-scale treatability studies (TtNUS, 2001) showed that site-specific R_f values were much lower than the value calculated above. The laboratory results showed total arsenic has a R_f value 0f 21 $\pm$ 9 L/kg, As^{5+} has a R_f value of 21 $\pm$ 8 L/kg, and trivalent arsenic (As^{3+}) has a R_f value of 14 $\pm$ 3 L/kg. Based on the OU 3 treatability study, the mobility of arsenic is much higher in shallow groundwater at NAS Jacksonville than predicted using estimated values from scientific literature. Arsenic species have been identified in four groundwater samples collected from four shallow wells in November 2006 (Table 5-13). The laboratory analyses identified the majority of arsenic is present as trivalent arsenic (As^{3+}). Pentavalent arsenic (As^{5+}) was the second most prevalent form of arsenic. In addition, 5 to 8 µg/L of monomethylarsenate (MMA, arsenic complexed to a methyl radical) was present in two of the wells. The trivalent arsenic is more mobile than the pentavalent form of arsenic, as determined by the OU 3 treatability study. Approximate values for K_{oc}, K_d, and R_f for MMA could not be found in scientific literature.

6.2 CONTAMINANT TRANSPORT PATHWAYS

A brief overview of contaminant fate and transport issues at PSC 47 is presented in this section. Based on the evaluation of existing conditions at the site, the following potential contaminant transport pathways have been identified:

- Leaching of soil contaminants to groundwater.
- Migration of groundwater contaminants.
- Volatilization from soil.
- Volatilization from groundwater.
- Erosion and runoff of contaminated particles from soil and deposition in surface water bodies.

6.2.1 Leaching of Soil Contaminants to Groundwater

Contaminants that adhere to soil particles or have accumulated in soil pore spaces can leach and migrate vertically to the groundwater as a result of infiltration or precipitation. The rate and extent of this leaching are influenced by the depth of the water table, amount of precipitation, rate of infiltration, the physical and chemical properties of the soil, and the physical and chemical properties of the contaminant.

High concentrations of pesticides were detected in surface and subsurface soil samples and VOCs, pesticides, and herbicides were detected in the groundwater samples at the site. As indicated in Section 5.0, groundwater analytical data suggest the presence of two, possibly three, separate contaminant plumes at PSC 47: one near the removed DVECC tank south of Building 937 (southern plume), another in the vicinity of the former ASTs near the central portion of the Pesticide Shop (Building 536) (northern plume), and a possible third at JAX47-MW03. Previous remedial actions associated with the DVECC tank and the surface soil contamination at the Pesticide Shop have eliminated some of the contamination in the surface and subsurface soil at PSC 47 (Section 3.7.3). Only a few VOCs, including several which are common laboratory contaminants, were detected in soil samples collected at the site, whereas many were detected in groundwater. These data indicate that the groundwater contamination is probably not only the result of leaching of contaminants from surface soil to groundwater but also is the result of underground releases from storage tanks, floor drains, and/or subsurface piping at the Pesticide Shop and Building 937.

6.2.2 Migration of Groundwater Contaminants

Contaminants can migrate in either a dissolved phase or as an immiscible liquid. A contaminant that is present in water above its solubility concentration will form an immiscible liquid. Based on the specific gravity of the contaminant, it will either float or sink in the water. In the case of chlorinated solvents (e.g., TCE), the contaminant will sink in the water because it has a higher specific gravity than water. Subsurface transport of the immiscible contaminants is governed by a set of factors different from those of dissolved contaminants. Contaminants from the immiscible liquids may also dissolve into groundwater, volatilize from the groundwater to ground air, evaporate directly into ground air, or sorb from groundwater to solid surfaces.

Contaminant concentrations may be affected by one or more mechanisms during transport. Volatilization or precipitation may physically transform contaminants. Contaminants may be chemically transformed through photolysis, hydrolysis, or oxidation-reduction. Contaminants may also be biologically transformed by biodegradation. Additionally, contaminants may accumulate in one or more media.

Organics leaching from the soil into the groundwater can migrate as dissolved constituents in groundwater. Three general processes govern the migration of dissolved constituents in groundwater: advection, dispersion, and retardation. Advection is a process by which solutes are carried by groundwater movement. Dispersion is a mixing of contaminated and uncontaminated water during advection. Retardation is a slowing of contaminant migration caused by the reaction of the solute with the aquifer soil.

The concentrations of chemicals detected in groundwater at PSC 47 are less than published solubility levels (see Table 6-1) indicating that they are likely present in the dissolved phase. Therefore, the migration of groundwater contaminants at the site is most likely determined by the factors that govern the movement of dissolved contaminants.

6.2.3 Volatilization from Soil

Pesticides, herbicides, and arsenic were the COCs detected in soil at PSC 47. As shown in Table 6-1, these chemicals have very low vapor pressures and Henry's Law Constants, and would not be expected to volatilize from soil to a great extent. Based on the available soil data, volatilization from the soil to ambient air is not expected to be a major transport pathway at PSC 47.

6.2.4 Volatilization from Groundwater

Several types of VOCs (halogenated aliphatics, monocyclic aromatics, ketones, naphthalene, miscellaneous VOCs, and MMA) were detected in groundwater at the site. Since VOCs are typically very mobile, they may leach to groundwater (as discussed above) or volatilize into ambient air. VOC vapors in groundwater may migrate through the overlying soil layers and into ambient air. Studies have shown that the vapors can move either horizontally or vertically in the subsurface. The vapors may also enter buildings through cracks in building foundations or walls. Upon entering ambient air, the vapors are not expected to persist for long periods of time because they have half-lives in the atmosphere typically measured in hours or a few days. Vapors may also be released directly to ambient air from soil or groundwater during excavation activities.

Because a number of VOCs were detected in groundwater at concentrations above risk-based screening levels, potential exposure via volatilization from groundwater into ambient air is evaluated in this report.

6.2.5 Erosion and Runoff of Contaminated Particles from Soil

Chemicals adhering to particulate matter in soil (or sediment) may migrate to drainage ditches or streams (if nearby) by erosional processes such as stormwater runoff. This is a potentially important migration

mechanism for environmentally immobile chemicals (i.e., PAHs, pesticides, and herbicides) that tend to bind to soil. The contaminated soil particles may be moved by runoff or by intermittent flow in drainage ditches.

PSC 47 is relatively flat with a south-flowing drainage ditch (swale) present along its eastern boundary. This ditch is usually dry except during rain events. Because the site is flat and no significant surface water bodies exist near the site, erosion and runoff of contaminated particles are not considered to be important transport pathways at the site.

6.3 CHEMICAL FATE (PERSISTENCE) AND MIGRATION

An overview of contaminant fate and transport issues for the major chemical classes detected at PSC 47 is presented in this section. The following general classes of compounds are discussed:

- Monocyclic aromatics (e.g., chlorobenzenes and BTEX)
- Halogenated aliphatics (chloroform, PCE, and degradation products)
- PAHs (e.g., naphthalene, benzo(a)pyrene, pyrene)
- Phthalate esters (bis(2-ethylhexyl)phthalate)
- Pesticides (e.g., dieldrin, DDT and metabolites, chlordanes) and herbicides (2,4-D, 2,4,5-T)
- Metals (i.e., arsenic)

The information for specific chemicals discussed in the following sections was obtained from TOXNET at http://toxnet.nlm.nih.gov/.

6.3.1 Monocyclic Aromatics

Monocyclic aromatic compounds such as benzene and toluene are not considered to be persistent in the environment, particularly compared to chemicals such as PAHs and pesticides. Monocyclic aromatics are subject to degradation via the action of both soil and aquatic microorganisms.

The fate and transport characteristics of two monocyclic aromatics detected at PSC 47 are discussed below. The characteristics of these compounds are generally comparable to other similar compounds.

- **Benzene's** production, existence in gasoline, and use in the production of ethylbenzene and styrene as well as many other chemicals can result in its release to the environment. Benzene is found in volcanoes, as a constituent of crude oil, from forest fires, and as a plant volatile. If released to soil, benzene is expected to have high mobility based on its K_{oc}. Based on its Henry's Law Constant,

volatilization from moist soil surfaces is expected to be an important fate process. Benzene may volatilize from dry soil surfaces based upon its vapor pressure. Benzene is expected to biodegrade in soils based on biodegradation studies. If released to air, benzene will exist solely as a vapor in the ambient atmosphere. Vapor-phase benzene will be degraded in the atmosphere with a half-life estimated to be 13 days. Since benzene is very water soluble, it may be removed from the atmosphere by rain. If released into water, benzene is not expected to adsorb to sediment and suspended solids in water based upon the K_{oc}. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant. Based on experimental evidence, biodegradation of benzene in water is expected. In aqueous solution, benzene will react with hydroxyl radical which results in an estimated half-life of 103 days. BCFs ranging from 1.1 to 20 suggest bioconcentration in aquatic organisms is low. Hydrolysis is not expected to occur due to the lack of hydrolyzable functional groups.

- **1,4-Dichlorobenzene** is used as an insecticide, space deodorant and a chemical intermediate. Dichlorobenzene is expected to have moderate to low mobility in soils based upon log K_{oc} values in the range of 300 to 63,000 measured in soils and sediment. Volatilization of 1,4-dichlorobenzene from dry soil surfaces is expected to be an important fate process based upon the vapor pressure of this compound. Volatilization from moist soil surfaces is expected based on the Henry's Law constant of $2.4x10^{-3}$ atm-cu m/mole at 20°C. 1,4-Dichlorobenzene is not expected to biodegrade in soils or water with reported biodegradation half-lives of about a year or longer. Based on a vapor pressure of 1.2 millimeters mercury (mm Hg) at 20°C, 1,4-dichlorobenzene is expected to exist solely as a vapor in the ambient atmosphere. Vapor-phase 1,4-dichlorobenzene is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals with an estimated atmospheric half-life of 50 days. In water, 1,4-dichlorobenzene is expected to adsorb to sediment or particulate matter based on its measured K_{oc} values. This compound is expected to volatilize from water surfaces given its Henry's Law constant. Bioconcentration in aquatic organisms is considered moderate to high based on BCF values in the range of 60 to 720 measured in fish.

6.3.2 Halogenated Aliphatics

In general, halogenated aliphatic hydrocarbons are subject to abiotic dehydrohalogenation. This process is an elimination reaction that results in the formation of an ethene from a saturated halogenated compound. Research indicates that microbial degradation of highly chlorinated ethanes is a relatively slow process. Hydrolysis, photolysis, and oxidation are generally not considered to be significant fate processes for the chlorinated ethanes.

Volatilization is usually a significant fate process for these compounds. Volatilization is only significant at the air-soil or air-water interface. Compounds such as chloroform and methylene chloride volatilize rapidly

to the atmosphere from soil or surface water due to low soil adsorption. Adsorption should not be considered an important fate for these types of compounds when compared to more hydrophobic compounds. BCF factors indicate that these compounds should not bioaccumulate.

Photolysis is not considered to be a relevant degradation mechanism for this class of compounds. Limited hydrolysis of saturated aliphatics (i.e., alkanes) may occur, but it does not appear to be a significant degradation mechanism for unsaturated species (i.e., alkenes).

The fate and transport characteristics of some of the more common halogenated aliphatic compounds detected at PSC 47 are discussed below.

- **PCE** production and use as a dry cleaning agent, degreasing agent, and as a chemical intermediate in the production of fluorocarbons has resulted in its release to the environment through various waste streams. If released to soil, PCE is expected to have moderate mobility based upon K_{oc} values in the range of 150 to 237 and PCE is often detected in groundwater. Volatilization from moist soil surfaces is expected to be an important fate process based on its Henry's Law constant. PCE may volatilize from dry soil surfaces based upon its vapor pressure. Volatilization half-lives in the range of 1.2 to 5.4 hours were measured for PCE from a sandy loam soil surface and volatilization half-lives of 1.9 to 5.2 hours were measured from organic topsoil. Biodegradation is expected to occur slowly in soils under both aerobic and anaerobic conditions. If released to air, a vapor pressure of 18.5 mm Hg at 25°C indicates PCE will exist solely as a vapor in the ambient atmosphere. Vapor-phase PCE will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 96 days. Direct photolysis is not expected to be an important environmental fate process since this compound only absorbs light weakly in the environmental UV spectrum. If released into water, PCE is not expected to adsorb to suspended solids and sediment in water based upon the K_{oc} data. The biodegradation half-lives of PCE in aerobic and anaerobic waters were reported as 180 and 98 days, respectively. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant. Measured BCF values of 26 to 77 in fish suggest bioconcentration in aquatic organisms is low to moderate. Hydrolysis is not expected to be an important environmental fate process based on a hydrolysis half-life of nine months.

- **TCE** use in degreasing operations as well as in plastics, appliances, jewelry, automobiles, plumbing fixtures, textiles, paper, glass, and printing industries has resulted in its release to the environment through various waste streams. If released to soil, TCE is expected to have high mobility based upon an average K_{oc} of 101 measured in various soil types. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of $9.85X10^{-3}$ atm-cu

m/mole. TCE is expected to volatilize from dry soil surfaces based upon its vapor pressure. Biodegradation of TCE has been reported under aerobic conditions where additional nutrients have been added. Under anaerobic conditions, as might be seen in flooded soils, sediments, or aquifer environments, TCE is slowly biodegraded via reductive dechlorination; the extent and rate of degradation is dependent upon the strength of the reducing environment. TCE half-lives in aquifer studies ranged from 35 days to over 6 years. If released to air, a vapor pressure of 69 mm Hg at 25°C indicates TCE will exist solely as a vapor in the ambient atmosphere. Vapor-phase TCE will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 7 hours. If released into water, TCE is not expected to adsorb to suspended solids and sediment based on an average K_{oc} value of 101. Volatilization from water surfaces will be an important fate process based upon this compound's Henry's Law constant. BCF values in fish ranging from 4 to 39 suggest bioconcentration in aquatic organisms is moderate to low. TCE is widely detected in groundwater in the U.S.

- **1,2-DCE's** use as a solvent has resulted in past release to the environment. Under anaerobic conditions that may exist in landfills or sediment. cis-1,2-DCE may be formed from the reductive dehalogenation of TCE facilitated by microorganisms. If released to soil, cis-1,2-DCE is expected to have moderate mobility based upon a K_{oc} of 250. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of $4.1X10^{-3}$ atm-cu m/mole. Cis-1,2-DCE may volatilize from dry soil surfaces based upon its vapor pressure of 200 mm Hg. If released to air, a vapor pressure of 200 mm Hg at 25°C indicates cis-1,2-DCE will exist solely as a vapor in the ambient atmosphere. Vapor-phase cis-1,2-DCE will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 6.1 days. If released into water, cis-1,2-DCE is expected to adsorb to suspended solids and sediment based upon the estimated K_{oc}. cis-1,2-DCE biodegrades in soil under anaerobic conditions. Under anaerobic conditions, field-scale biodegradation half-lives range from 0.14 to 9.9 years. The fact that ethyl chloride is produced as well as vinyl chloride indicates that there are different pathways in the sequential dechlorination of cis-1,2-DCE than for the trans isomer where only vinyl chloride is produced. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant. An estimated BCF of 5 suggests the potential for bioconcentration in aquatic organisms is low. Hydrolysis is not expected since chlorinated ethylenes hydrolyze very slowly at environmental conditions. cis-1,2-DCE has been widely detected in groundwater at concentrations up to a maximum of 1,200 µg/L.

6.3.3 PAHs

PAHs have very low solubilities, vapor pressures, and Henry's Law Constants and high K_{oc} and K_{ow} values. The lower molecular weight PAHs (e.g., acenaphthene, anthracene, fluorene, phenanthrene) are

more environmentally mobile than the higher molecular weight PAHs and are more likely to leach to groundwater. The high molecular weight PAHs (e.g., benzo(a)pyrene, benz(a)anthracene, chrysene, etc.) are less mobile and tend to adhere to soil particles. Therefore, PAHs in soil are much more likely to bind to soil and be transported via mass transport mechanisms than to go into solution. PAHs are subject to degradation via aerobic bacteria, but may be relatively persistent in the absence of microbial population or macronutrients such as phosphorus and nitrogen.

Bioconcentration of PAHs in aquatic organisms is greater for the higher molecular weight compounds than the lower molecular weight compounds. PAHs can be bioaccumulated from water, sediments, or lower organisms in the food chain.

Landspreading applications have indicated that PAHs are highly amenable to microbial degradation in soil. The rate of degradation is influenced by temperature, pH, oxygen concentrations, initial chemical concentrations, and moisture. Photolysis, hydrolysis, and oxidation are not important fate processes for the degradation of PAHs in soil.

The most important fates of PAHs in water are photo-oxidation, chemical oxidation, and biodegradation. PAHs do not contain functional groups that are susceptible to hydrolytic action, and hydrolysis is considered to be an insignificant degradation mechanism. The rate of photodegradation is influenced by water depth, turbidity, and temperature. Benzo(a)pyrene and chrysene are reported to be resistant to photodegradation. PAHs may also be oxidized by chlorination and ozonation and may be metabolized by microbes under oxygenated conditions.

The fate and transport characteristics of some of the more common PAHs detected at PSC 47 are discussed below.

- **Benzo(a)pyrene** occurs in fossil fuels and is released to the environment as a product of incomplete combustion. If released to soil, the measured soil K_{oc} values of benzo(a)pyrene (ranging from 930 to 6,300) indicate benzo(a)pyrene is expected to have low to no mobility. Volatilization of benzo(a)pyrene from wet and dry soil surfaces is not expected to be an important fate process based on its measured Henry's Law constant of $4.57X10^{-7}$ atm-cu m/mole and its extrapolated vapor pressure, respectively. Biodegradation in soil is expected to be a slow fate process based upon half-lives in soil ranging from 120 to 309 days. Adsorption to soil is expected to inhibit biodegradation. If released to air, benzo(a)pyrene's extrapolated vapor pressure of $5.5X10^{-9}$ mm Hg at 25°C indicates this compound is expected to exist solely in the particulate phase in the ambient atmosphere. Particulate-phase benzo(a)pyrene will be physically removed from the atmosphere by wet and dry deposition. If released into water, benzo(a)pyrene is expected to adsorb to suspended solids and

sediment in the water column based upon K_{oc} values ranging from $2.7X10^5$ to $1.9X10^6$. Volatilization from water surfaces is not expected to occur given this compound's measured Henry's Law constant. Adsorption to dissolved humic material in the water column is expected to attenuate bioconcentration in aquatic organisms. BCFs for benzo(a)pyrene have been measured ranging from 8.7 to $1X10^5$ indicating that bioconcentration in aquatic organisms is low to very high. Marine organisms which lack a metabolic detoxification enzyme system, tend to accumulate PAHs. Hydrolysis is not expected to be an important process due to the lack of hydrolyzable functional groups. Biodegradation of benzo(a)pyrene is expected to occur in aquatic systems. Since benzo(a)pyrene is a product of incomplete combustion, occupational situations involving heating organic material may potentially result in exposure to this compound through inhalation of air particulate matter and dermal contact with combustion products. The general population can also be exposed to benzo(a)pyrene primarily through the smoking of tobacco, inhalation of polluted air, by ingestion of water contaminated by combustion effluents and charcoal-broiled food.

- **Phenanthrene** is a lower molecular weight PAH which was detected in soil and groundwater at PSC 47. Release of phenanthrene most likely results from the incomplete combustion of a variety of organic compounds including wood and fossil fuels. Release to the soil will likely result in biodegradation. Volatilization is not expected to be significant. Phenanthrene is expected to bind strongly to soil and not leach extensively to groundwater. When released to water, adsorption to suspended sediments is expected to remove most of the compound from solution. Photolysis is expected to occur near the water surface and biodegradation of phenanthrene in the water column is expected. Oxidation, volatilization and bioconcentration are not expected to be significant. Phenanthrene released to the atmosphere is expected to rapidly adsorb to particulate matter. Phenanthrene adsorbed on fly ash has been shown to photolyze rapidly (half-life 49 hours) and phenanthrene adsorbed on particulate matter will be subject to wet and dry deposition. Vapor phase phenanthrene will react with photochemically generated, atmospheric hydroxyl radicals with an estimated half-life of 1.67 days.

6.3.4 Phthalate Esters

Phthalate esters are considered to be relatively persistent chemicals in the environment. Although numerous studies have demonstrated that phthalate esters undergo biodegradation, it appears that this is a slow process in both soils and surface waters. Certain microorganisms have been shown to excrete products that increase the solubility of phthalate esters and enhance their biodegradation.

Biodegradation of bis(2-ethylhexyl) phthalate (BEHP) and di-n-butyl phthalate in water is an important fate mechanism. However, hydrolysis of BEHP is very slow, with a calculated half-life of 2,000 years. In soil, microorganisms appear to be capable of degrading di-n-butyl phthalate rapidly. Bioaccumulation is also a

significant fate process. Photolysis and volatilization are considered to be insignificant degradation mechanisms.

The fate and transport characteristics of BEHP are discussed below.

- **BEHP** has been reported to be a possible natural product in animals and plants. BEHP has been found in floor tiles, various types of furnishings for households and transportation vehicles, food packaging systems, industrial tubing and conduits, medical tubing, catheters and blood containers, certain types of dental material, coatings for drugs, and numerous other products. BEHP's production and use as a plasticizer and as an insulating fluid in electrical transformers may result in its release to the environment through various waste streams. If released to soil, measured K_{oc} values ranging from 87,420 to 510,000 indicate BEHP will be immobile. Volatilization is not expected to be an important process from wet or dry soil surfaces based upon an estimated Henry's Law constant of $1.3X10^{-7}$ atm-cu m/mole and this compound's measured vapor pressure, respectively. Biodegradation is expected to be an important process in both water and soil under aerobic conditions. If released to air, a vapor pressure of $7.23X10^{-8}$ mm Hg suggests this compound will exist in both the vapor and particulate phases in the ambient atmosphere. Vapor-phase BEHP will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 18 hours. Particulate-phase BEHP will be physically removed from the atmosphere by wet and dry deposition. If released into water, measured soil/sediment K_{oc} values ranging from 87,420 to 510,000 and suspended solid K_{oc} values ranging from 22,000 to $1X10^{6}$ indicate BEHP will adsorb to suspended solids and sediment in the water column. Volatilization from water surfaces is not expected to occur based upon the estimated Henry's Law constant. Hydrolysis is not expected to be an important process based upon a half-life of 2,000 years at pH 7. Measured BCFs of 115 and 851 in bluegill sunfish and fathead minnows indicate bioconcentration in aquatic organisms will be high. However, experiments with rainbow trout showed that the majority of BEHP did not reach the systemic circulation of the fish, but was present in the exposure water as metabolites as a result of presystemic branchial metabolism of this compound.

6.3.5 Pesticides and Herbicides

Whether pesticides and herbicides are sprayed, dusted, or applied directly to the soil, the soil is the ultimate sink for these chemicals. Surface soil runoff may carry pesticides to adjacent surface water bodies where they are likely to settle in the sediment (although this is not an important pathway at PSC 47). Bioconcentration of pesticides in the food chain is another important fate mechanism. Hydrolysis, oxidation, and photolysis are not generally important fate mechanisms for pesticides in soil or water. Hydrolysis half-lives for several pesticides are reported in periods of months to years. The fate

and transport characteristics of some of the more common pesticides and herbicides used at the site in the past are discussed below.

- **DDT's** former production and use as a broad spectrum pesticide has resulted in its widespread environmental release. If released to soil, DDT is expected to have very little mobility based upon K_{oc} values in the range of $1.13X10^5$ to $3.5X10^5$. Volatilization from moist soil surfaces could occur based on DDT's Henry's Law constant; however, adsorption may attenuate this process. DDT is generally considered recalcitrant under aerobic conditions in soil surfaces, but may undergo biodegradation under anaerobic conditions. It was reported that the mean lifetime of DDT in temperate United States soils is about 5.3 years. If released to air, a vapor pressure of $1.6X1^{-7}$ mm Hg at 25°C indicates DDT will exist in both the vapor and particulate phases in the ambient atmosphere. Vapor-phase DDT will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 5 days. Particulate-phase DDT will be removed from the atmosphere by wet and dry deposition. If released into water, DDT is expected to adsorb to suspended solids and sediment in water based upon the K_{oc} data. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant but the K_{oc} values would suggest that volatilization will be seriously attenuated. DDT undergoes base catalyzed hydrolysis with a half-life of 81 days at pH 9 and the product formed in the hydrolysis reaction is DDE. The hydrolysis rate of DDT under acidic conditions is very slow, with a reported half-life of 12 years at 27°C and pH 3-5. BCF values of 600 to 84,500 measured in fish, suggest that bioconcentration in aquatic organisms is very high. Although DDT is no longer used in the United States, the general population continues to be exposed to this compound due to its long persistence time.

- **Dieldrin's** former production and use as an insecticide resulted in its direct release to the environment. Dieldrin is also a degradation product of the insecticide aldrin, and the former use of aldrin has contributed to the occurrence of dieldrin in the environment. If released to soil, dieldrin is expected to have low mobility based upon K_{oc} values measured in soil and sediment. Volatilization from moist soil surfaces may be significant based upon a Henry's Law constant of $1X10^{-5}$ atm-cu m/mole; however, adsorption may attenuate this process. Dieldrin was volatilized 90 percent in 30 days when applied to vegetation and 20 percent in 50 days when applied to a moist soil surface. Approximately 3.6 percent dieldrin was volatilized in 167 days when incorporated in a soil at a depth of 7.5 centimeters (cm). Dieldrin degrades slowly in soil surfaces with a reported half-life of about 7 years in field studies. If released to air, its vapor pressure indicates dieldrin will exist in both the vapor and particulate phases in the ambient atmosphere. Vapor-phase dieldrin will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals. The half-life for the reaction with hydroxyl radicals in air is estimated to be 42 hours. Dieldrin also undergoes direct photolysis in

the environment yielding photodieldrin as the primary degradation product. Particulate-phase dieldrin will be removed from the atmosphere by wet and dry deposition. If released into water, dieldrin is expected to adsorb to suspended solids and sediment in water based upon the K_{oc} data. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant. However, volatilization from water surfaces is expected to be attenuated by adsorption to suspended solids and sediment in the water column. The estimated volatilization half-life from a model pond is 7 years when adsorption is considered. The hydrolysis half-life of dieldrin has been reported as greater than 4 years. BCF values of 3,300 to 14,500, measured in fish, suggest bioconcentration in aquatic organisms is very high.

- **Chlordane** is extremely persistent in the environment and in some soils may persist for long periods of time. One review of chlordane soil persistence literature has reported that the mean degradation rate of chlordane in soil under field conditions has been observed to range from 4.05 to 28.33 percent per year; another literature review has reported the mean half-life of chlordane under field conditions to be 3.3 years. Based on field tests, soil column leaching tests and K_{oc} estimation, chlordane is expected to be generally immobile or only slightly mobile in soil; however, the detection of chlordane in a number of groundwater samples indicates that leaching has occurred at PSC 47. Soil volatility studies have found that chlordane can volatilize significantly from soil surfaces on which it has been sprayed, particularly moist soil surfaces; however, shallow incorporation into soil was found to greatly restrict volatilization losses. Sufficient data are not available to predict the biodegradation rate of chlordane in soil. However, it has been suggested that chlordane is very slowly biotransformed in the environment (similar in nature to dieldrin), which is consistent with the long persistence periods observed under field conditions.

- **Heptachlor** was used extensively as an insecticide on many agricultural crops until its use was banned by the USEPA in 1974. Its production and former use in termite control, seed/seed furrow treatment, and wood treatment did result in its direct release to the environment. If released to soil, heptachlor is expected to have no mobility based upon a range of K_{oc}s of 13,330 to 661,000. Volatilization from moist soil surfaces may be an important fate process based upon a Henry's Law constant of $2.3X10^{-3}$ atm-cu m/mole. Complete degradation of heptachlor in flooded sandy loam and Louisiana clay occurred after 1 and 2 months, respectively. However, field dissipation half-lives for heptachlor can range from 40 days to 5.5 yrs. If released to air, a vapor pressure of $4.00X10^{-4}$ mm Hg at 25°C indicates heptachlor will exist in both the vapor and particulate phases in the ambient atmosphere. Vapor-phase heptachlor will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals and ozone; the half-life for these reactions in air are estimated to be 6.3 and 1.4 hours, respectively. Particulate-phase heptachlor will be removed from the atmosphere by wet and dry deposition. Direct and photosensitized photolysis of unabsorbed

heptachlor may occur in the environment. If released to water, heptachlor is expected to adsorb to suspended solids and sediment based upon the range of K_{oc}. In water, 95.3 percent of heptachlor was removed by an acclimated aerobic mixed microbial culture in 4 weeks. Anaerobic incubation of heptachlor with thick sewage sludge inoculum at 53°C resulted in complete degradation in about 1 day. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant. However, volatilization from water surfaces is expected to be attenuated by adsorption to suspended solids and sediment in the water column. A range of BCF values of 200 to 37,000 suggest bioconcentration in aquatic organisms is high to very high. In water and moist soil, heptachlor readily undergoes hydrolysis to 1-hydrochlorodene, which is then readily converted by microorganisms into heptachlor epoxide. The chemical hydrolysis half-life for heptachlor is reported to be 4.5 days at pH 7.

- **2,4-D.** K_{oc} values for 2,4-D range from 20 to 136 indicating that 2,4-D is expected to have some mobility in soil. The pKa of 2,4-D is 2.73, indicating that this compound will primarily exist in the anion form in the environment and anions generally do not adsorb to soil more strongly than their neutral counterparts. Volatilization from moist soil surfaces is not expected to be an important fate process based upon this compound's pKa, which indicates 2,4-D will exist almost entirely as an anion. 2,4-D is not expected to volatilize from dry soil surfaces based upon its vapor pressure of $8.3X10^{-8}$ mm Hg at 20°C. Half-lives for 2,4-D volatilization from soil of 660 days (from 1 cm) and 7.1 year (from 10 cm) were calculated by assuming a zero degradation rate. Biodegradation is by far the most important loss process for 2,4-D in most soils, leading to various hydroxylic aromatic products. The rate of degradation is affected by the conditions, especially the concentrations of 2,4-D and water content temperature and the organic content of soil and the status of preexposure of the soil to 2,4-D or its salts or its esters. Typical half-lives are short, ranging from less than 1 day to several weeks. Longer half-lives in dry or sandy soils with low organic content are possible. Adsorption to soil will probably not be important, but will depend on type of soil and organic content. In other soils, rapid biodegradation is expected to prevent consequential leaching. Evaporation and hydrolysis will be negligible.

- Release of **2,4,5-T** to the environment occurred during its past use as a herbicide and it can form in the environment as a hydrolysis product of its herbicide esters. Other sources of release may include losses during formulation, packaging or disposal of 2,4,5-T or its esters. If released to soil, 2,4,5-T is likely to biodegrade and its mobility is expected to vary from highly mobile in sandy soil and moderately mobile in clay and silt loams to slightly mobile in muck (due to adsorption to humic acids and other organic matter). Removal by biodegradation apparently limits the extent of leaching, of 2,4,5-trichlorophenol and 2,4,5-trichloroanisole, the primary degradation product of 2,4,5-T in soil. The anisole is apparently formed by microbial methylation of the phenol. Chemical hydrolysis in moist

soils should not be significant. The persistence of 2,4,5-T in soil is reported to vary from 14 to 300 days depending upon climatic conditions and population of soil microorganisms, but usually does not exceed one full growing season regardless of the application rate. Degradation under anaerobic conditions is much slower than under aerobic conditions, thus 2,4,5-T persists longer in flooded soils (half-life of less than or equal to 48 weeks) than in field moist soils. Data regarding the biodegradation of 2,4,5-T in soil suggest that biodegradation may contribute significantly to the degradation of 2,4,5-T in aquatic systems.

6.3.6 Metals

Arsenic is the only metal considered to be a COC at PSC 47. It is present in both soils and groundwater. Arsenic does not biodegrade, but it does change valence states (As^{5+} and As^{3+} are the most common states). The valence state of arsenic is dependent primarily on the redox conditions in the soil or groundwater where it is located. Oxidizing conditions favor the pentavalent form of arsenic; whereas, mildly reducing to reducing conditions favor trivalent arsenic. Bacterial metabolism and other biotic activities can affect the redox conditions and the valence state of arsenic. The greater portion of the arsenic mass is adsorbed to subsurface soil. In particular, arsenate and arsenite anions sorb relatively strongly to iron oxyhydroxide coatings on soil mineral surfaces. Since the arsenic does not degrade and there is little uptake of arsenic by plants at the site (arsenic is found primarily in the deeper soil and groundwater), the primary fate of arsenic at PSC 47 is sorption to the soil.

6.4 BIODEGRADATION AND NATURAL ATTENUATION AT PSC 47

6.4.1 Northern Plume

The highest groundwater concentrations of most pesticides in the Northern Plume have been detected historically in two wells on the north side of Building 536 (JAX47-MW11S and JAX47-MW25S) and two wells on the southeastern side of Building 536 (JAX47-536-MW03 and JAX47-MW13S) (Table 6-3). The concentrations of nearly all of the pesticide compounds detected in these four wells have decreased by about 50 percent or more between 2001 and 2006. Pesticide concentrations in one other nearby well (JAX47-MW13D) also showed decreasing concentrations between 2002 and 2006. Two wells (JAX47-MW12S and JAX47-MW27S), however, have shown a slight increase in four pesticides [alpha-BHC, delta-BHC, gamma-BHC (Lindane), and alpha-chlordane] between 2002 and 2006. The data from five of the seven wells that have the highest pesticide concentrations suggest that biodegradation or other natural attenuation processes (e.g., dilution and dispersion) are causing the pesticide concentrations to decrease over time in the Northern Plume. The two wells showing very minor increases in concentration are located at the far northern and western sides of the plume.

Table 6-3
Summary of Contaminant Concentrations in Groundwater Over Time

Remedial Investigation/Feasibility Study
Potential Source of Contamibnation 47
Naval Air Station Jacksonville
Jacksonville, Florida

Northern Plume

	JAX47-536-MW03		JAX47-MW11S		JAX47-MW12S			JAX47-MW13S			JAX47-MW13D		JAX47-MW25S		JAX47-MW27S		
Collection Date	**6/25/2001**	**4/9/2002**	**4/4/2002**	**12/1/2006**	**4/10/2002**	**2/27/2004**	**12/8/2006**	**4/4/2002**	**7/25/2005**	**12/1/2006**	**4/4/2002**	**12/1/2006**	**11/7/2002**	**12/8/2006**	**1/20/2003**	**3/3/2003**	**11/30/2006**
Pesticides (µg/L)																	
4,4'-DDD	**210**	**48**	0.48 U	0.0004 U	0.10 U	NA	0.0004 U	**3.1**	3.4	0.54	**1.9**	0.31	1.0 U	0.0004 U	0.10 U	0.10 U	0.001 J
4,4'-DDE	1 U	0.92 J	0.48 U	0.002 U	0.10 U	NA	0.056 J	0.96 U	0.2 U	0.002 U	0.10 U	0.003 J	1.0 U	0.002 U	0.10 U	0.10 U	0.002 U
4,4'-DDT	**22**	2.3 U	0.48 U	0.002 U	0.10 U	NA	0.002 U	**1.5**	1.7	0.38	**0.17**	0.002 U	1.0 U	0.003 U	0.10 U	0.10 U	0.002 U
ALDRIN	1 U	1.2 U	0.24 U	0.002 U	0.050 U	NA	0.002 U	0.48 U	0.2 U	0.01 J	0.050 U	0.002 U	0.5 U	0.002 U	0.050 U	0.050 U	0.002 U
ALPHA-BHC	**8.4**	**4.2**	**4.8**	0.001 U	0.050 U	NA	1.1 J	**14**	1.2	2	**0.057**	0.001 U	**5.9**	3.4	0.050 U	0.050 U	0.21
ALPHA-CHLORDANE	1 U	1.2 U	0.24 U	0.001 U	0.050 U	NA	0.44 J	0.48 U	0.78	0.16 J	0.050 U	0.001 U	0.5 U	0.032 J	0.050 U	0.050 U	0.012 J
BETA-BHC	**2.1**	1.2 U	**1.7**	0.002 U	**1.3**	NA	0.7 J	**1.2**	0.38 I	0.28	0.050 U	0.002 U	**2.8**	1.8 J	**0.064**	0.050 U	0.16
DELTA-BHC	**9.6**	**4.6**	**4.2**	0.001 U	0.050 U	NA	0.015 J	**10**	0.84	1.7	0.071	0.001 U	**5.6**	3.6	0.11	0.050 U	0.41 J
DIELDRIN	1 U	2.3 U	0.48 U	0.0008 U	**0.023 J**	NA	0.15 J	0.96 U	0.32 I	0.038 J	0.10 U	0.0008 U	1.0 U	0.0008 U	0.10 U	0.10 U	0.004 J
ENDRIN	**25**	2.3 U	0.48 U	0.002 UJ	0.10 U	NA	0.002 U	0.96 U	0.39 U	0.021 J	0.10 U	0.002 U	1.0 U	0.003 UJ	0.10 U	0.10 U	0.002 U
ENRIN ALDEHYDE	3	2.3 U	0.48 U	0.009 U	0.10 U	NA	0.009 U	0.96 U	0.39 U	0.011 J	0.10 U	0.009 U	1.0 U	0.009 U	0.10 U	0.10 U	0.009 U
ENDRIN KETONE	1 U	2.3 U	0.48 U	0.003 UJ	0.10 U	NA	0.027 J	0.96 U	0.2 U	0.006 J	0.10 U	0.003 UJ	1.0 U	0.003 UJ	0.10 U	0.10 U	0.006 J
GAMMA-BHC (LINDANE)	**2.2**	1.2 U	**8.4**	0.002 U	0.050 U	NA	0.11 J	**22**	1.1	2.5	0.050 U	0.002 U	**10**	4.4	0.039	0.050 U	0.33
GAMMA-CHLORDANE	1.4	1.2 U	0.24 U	0.001 UJ	0.014 J	NA	0.016 J	0.48 U	0.9	0.25	0.050 U	0.001 U	0.5 U	0.036 J	0.050 U	0.050 U	0.001 U
Volatile Organics (ug/L)																	
TETRACHLOROETHENE	1 U	5 U	5 U	0.3 U	5 U	NA	0.3 UJ	5 U	NA	0.3 U	5 U	0.3 U	5 U	0.3 UJ	5 U	NA	0.3 U
TRICHLOROETHENE	1.8	2 J	**23**	0.3 U	5 U	NA	0.3 U	5 U	NA	0.3 U	5 U	0.3 U	**4 J**	0.3 J	5 U	NA	0.3 U
CIS-1,2-DICHLOROETHENE	1.2	1 J	18	0.2 U	5 U	NA	0.2 U	5 U	NA	0.2 U	5 U	0.2 U	0.5 J	0.2 U	5 U	NA	0.2 U
TRANS-1,2-DICHLOROETHENE	1 U	5 U	5 U	0.2 U	5 U	NA	0.2 U	5 U	NA	0.2 U	5 U	0.2 U	5 U	0.2 U	5 U	NA	0.2 U
VINYL CHLORIDE	1 U	5 U	5 U	0.4 U	5 U	NA	0.4 U	5 U	NA	0.4 U	5 U	0.4 U	5 U	0.4 U	5 U	NA	0.4 U
BENZENE	1 U	**2 J**	**4 J**	0.2 U	5 U	NA	0.2 U	**1** J	NA	**0.6 J**	5 U	0.2 U	**2 J**	**0.5 J**	5 U	NA	0.2 U
TOLUENE	1 U	0.9 J	0.5 J	0.2 U	5 U	NA	0.2 U	5 U	NA	0.2 U	5 U	0.2 U	0.3 J	0.2 U	5 U	NA	0.2 U
ETHYLBENZENE	1.6	3 J	5	0.3 U	5 U	NA	0.3 U	2 J	NA	0.5 J	5 U	0.3 U	0.8 J	0.3 U	5 U	NA	0.3 U
TOTAL XYLENES	6	9	20	0.3 U	5 U	NA	0.3 U	6	NA	0.8 J	5 U	0.3 U	16	0.6 J	5 U	NA	0.3 U
1,2,4-TRICHLOROBENZENE	NA	5 U	5 U	0.1 U	5 U	NA	0.4 U	24	NA	6.6	5 U	0.4 U	1 U	0.9 U	5 U	NA	0.8 U
1,2-DICHLOROBENZENE	NA	5 U	5 U	0.2 U	5 U	NA	0.2 U	10	NA	2.3 J	5 U	0.2 U	1 J	0.6 U	5 U	NA	0.2 U
1,4-DICHLOROBENZENE	NA	2 J	2 J	0.1 U	5 U	NA	0.1 U	9	NA	3.9 J	5 U	0.1 U	4 J	3.2	5 U	NA	0.4 J
CHLOROBENZENE	NA	4 J	18	0.2 U	5 U	NA	0.2 U	8	NA	2.6 J	5 U	0.2 U	8	2.7	5 U	NA	0.2 J
CYCLOHEXANE	NA	5 U	43	0.4 U	5 U	NA	0.4 U	5 U	NA	0.4 U	5 U	0.4 U	40	0.4 U	5 U	NA	0.4 U
ISOPROPYLBENZENE	NA	5 U	**5**	0.1 U	5 U	NA	0.1 U	0.6 J	NA	0.1 U	5 U	0.1 U	**7**	**2.5**	5 U	NA	0.1 U
METHYL CYCLOHEXANE	NA	5 U	12	0.6 UJ	5 U	NA	0.6 UJ	5 U	NA	0.6 UJ	5 U	0.6 UJ	22	0.7 J	5 U	NA	0.6 UJ
Semi-Volatile Organics (ug/L)																	
2-METHYLNAPHTHALENE	16.5	NA	NA	2 U	NA	NA	2 U	31	NA	2 U	10 U	2 U	NA	25	NA	NA	2 U
NAPHTHALENE	6.5	NA	NA	3 U	NA	NA	3 U	11	NA	3 U	10 U	3 U	NA	30	NA	NA	3 U
Metals (ug/L)																	
ARSENIC	NA	NA	NA	4 U	NA	2.13 U	4 U	2.15 U	NA	4 U	2.15 U	4 U	NA	4.1	NA	NA	4 U

Table 6-3
Summary of Contaminant Concentrations in Groundwater Over Time

Remedial Investigation/Feasibility Study
Potential Source of Contamibnation 47
Naval Air Station Jacksonville
Jacksonville, Florida

Southern Plume

	JAX47-MW01S				JAX47-MW02S					JAX47-MW03S						JAX47-MW04S				
Collection Date	**6/25/2001**	**4/11/2002**	**2/27/2004**	**11/29/2006**	**6/25/2001**	**4/9/2002**	**2/27/2004**	**11/30/2006**	**4/3/2007**	**6/25/2001**	**4/11/2002**	**3/26/2004**	**7/25/2005**	**11/29/2006**	**4/3/2007**	**6/25/2001**	**4/11/2002**	**2/27/2004**	**12/1/2006**	**4/3/2007**
Pesticides (µg/L)																				
4,4'-DDD	1 U	0.10 U	NA	0.0004 U	1 U	0.10 U	NA	0.071 J	NA	**7.1**	**20**	NA	34.5	13 J	NA	1 U	1.0 U	NA	8.2	NA
4,4'-DDE	1 U	0.10 U	NA	0.002 U	1 U	0.10 U	NA	0.033 J	NA	1 U	**0.15 J**	NA	0.97 U	0.094 J	NA	1 U	1.0 U	NA	0.056	NA
4,4'-DDT	1 U	0.10 U	NA	0.002 U	**1**	0.10 U	NA	0.002 U	NA	**7.8**	**5.7**	NA	0.97 U	0.013 J	NA	1 U	1.0 U	NA	0.002 U	NA
ALDRIN	**7.7**	0.050 U	NA	0.002 U	**8.5**	0.050 U	NA	3.5 J	NA	1 U	0.47 U	NA	0.97 U	2.6 J	NA	**8.9**	0.50 U	NA	2.6 J	NA
ALPHA-BHC	1 U	0.08 J	NA	0.004 J	1 U	0.050 U	NA	0.001 U	NA	**1.3**	**2.4**	NA	5.3	0.64 J	NA	1 U	0.50 U	NA	0.45	NA
ALPHA-CHLORDANE	1 U	0.050 U	NA	0.005 J	1 U	0.050 U	NA	0.27 J	NA	1 U	0.47 U	NA	0.49 U	0.14 J	NA	1 U	0.50 U	NA	0.001 U	NA
BETA-BHC	1 U	0.050 U	NA	0.002 U	1 U	0.050 U	NA	0.097 J	NA	1 U	**1.2**	NA	3.6	1.1 J	NA	1 U	0.50 U	NA	3.9 J	NA
DELTA-BHC	1 U	0.050 U	NA	0.02 J	1 U	0.050 U	NA	0.42 J	NA	1.2	**3.6**	NA	7.1	1.1 J	NA	1 U	0.50 U	NA	0.64	NA
DIELDRIN	1 U	0.10 U	NA	0.003 J	1 U	0.10 U	NA	0.0008 U	NA	1 U	**0.83 J**	NA	1.8 I	0.32 J	NA	1 U	1.0 U	NA	0.19 J	NA
ENDRIN	1 U	0.10 U	NA	0.002 J	1 U	0.10 U	NA	0.002 UJ	NA	1 U	0.94 U	NA	1.9 U	0.002 U	NA	1 U	1.0 U	NA	0.008 J	NA
ENRIN ALDEHYDE	4.6	0.10 U	NA	0.009 U	5.8	0.10 U	NA	0.009 U	NA	5.6	0.94 U	NA	1.9 U	0.009 U	NA	5.2	1.0 U	NA	0.009 U	NA
ENDRIN KETONE	6.9	0.10 U	NA	0.003 U	27.8	0.10 U	NA	4.7 J	NA	4	0.94 U	NA	0.97 U	0.23 J	NA	1 U	1.0 U	NA	0.18	NA
GAMMA-BHC (LINDANE)	1 U	0.050 U	NA	0.002 UJ	1 U	0.050 U	NA	0.007 J	NA	**1.8**	**6.1**	NA	12.6	1.1 J	NA	1 U	0.50 U	NA	0.66	NA
GAMMA-CHLORDANE	**5.8**	0.050 U	NA	0.001 U	1 U	0.050 U	NA	0.001 UJ	NA	1 U	0.47 U	NA	0.49 U	0.001 U	NA	1 U	0.50 U	NA	0.001 U	NA
Volatile Organics (ug/L)																				
TETRACHLOROETHENE	**14**	**6.5**	NA	**1.5 J**	**21.7**	**11**	NA	**3.8**	NA	2.3	2 J	NA	NA	3.9 J	NA	**23**	**24**	NA	**4 J**	NA
TRICHLOROETHENE	**3.2**	2 J	NA	1 J	**6.6**	**4 J**	NA	**3.1**	NA	**6.3**	**6**	NA	NA	**7.4**	NA	10 U	**4 J**	NA	**7.7**	NA
CIS-1,2-DICHLOROETHENE	**380**	61.5	NA	17	47.4	21	NA	228 J	NA	**79.3**	58	NA	NA	564	NA	**360**	**150**	NA	**586**	NA
TRANS-1,2-DICHLOROETHENE	1 U	5 U	NA	0.5 J	1 U	5 U	NA	1.7	NA	1 U	0.8 J	NA	NA	4.2	NA	10 U	0.6 J	NA	4.5	NA
VINYL CHLORIDE	1 U	0.75 J	NA	0.4 U	1 U	5 U	NA	5.1	NA	1 U	0.4 J	NA	NA	1.9	NA	10 U	1 J	NA	**1.6**	NA
BENZENE	7.4	1 J	NA	0.2 U	1 U	0.6 J	NA	4.4	NA	1 U	0.4 J	NA	NA	3.3	NA	0	**9**	NA	**3.2**	NA
TOLUENE	**50.2**	4 J	NA	0.2 U	1 U	5 U	NA	3.5	NA	1 U	5 U	NA	NA	1 J	NA	**67**	**180**	NA	**0.6 J**	NA
ETHYLBENZENE	110	18.5	NA	0.3 U	4.5	2 J	NA	26.8	NA	1 U	5 U	NA	NA	9.9	NA	140	**200 J**	NA	**9.9**	NA
TOTAL XYLENES	**1960**	**215**	NA	0.3 U	1 U	5 U	NA	89.5	NA	6.5	5 U	NA	NA	22.7	NA	**2330**	**6200**	NA	**25.4**	NA
1,2,4-TRICHLOROBENZENE	NA	5 U	NA	0.1 U	NA	5 U	NA	0.3 U	NA	NA	5 U	NA	NA	2.5	NA	NA	5 U	NA	3.4	NA
1,2-DICHLOROBENZENE	NA	5 U	NA	0.2 U	NA	5 U	NA	0.2 U	NA	NA	5 U	NA	NA	0.2 U	NA	NA	5 U	NA	0.2 U	NA
1,4-DICHLOROBENZENE	NA	5 U	NA	0.1 U	NA	5 U	NA	0.1 U	NA	NA	5 U	NA	NA	0.1 U	NA	NA	5 U	NA	0.1 U	NA
CHLOROBENZENE	NA	0.45 J	NA	0.2 U	NA	5 U	NA	0.8 J	NA	NA	5 U	NA	NA	0.6 J	NA	NA	2 J	NA	0.5 J	NA
CYCLOHEXANE	NA	5 U	NA	0.4 U	NA	5 U	NA	0.4 U	NA	NA	5 U	NA	NA	0.4 U	NA	NA	5 U	NA	0.4 U	NA
ISOPROPYLBENZENE	NA	**2 J**	NA	0.1 U	NA	5 U	NA	1.6	NA	NA	5 U	NA	NA	1 J	NA	NA	**6**	NA	**1.1**	NA
METHYL CYCLOHEXANE	NA	5 U	NA	0.6 UJ	NA	5 U	NA	0.6 UJ	NA	NA	5 U	NA	NA	0.6 UJ	NA	NA	5 U	NA	0.6 UJ	NA
Semi-Volatile Organics (ug/L)																				
2-METHYLNAPHTHALENE	65	22	NA	2 U	10 U	NA	NA	10 J	NA	10 U	NA	NA	NA	2 U	NA	100 U	NA	NA	2 U	NA
NAPHTHALENE	**130**	22	NA	3 U	3 U	NA	NA	14	NA	5.2	NA	NA	NA	3 U	NA	**150**	NA	NA	3 U	NA
Metals (ug/L)																				
ARSENIC	NA	810	344	41	NA	NA	8960	8400 R	6640	NA	NA	7930	NA	23000 R	6240	NA	NA	3.8	5880 R	18.3

Table 6-3
Summary of Contaminant Concentrations in Groundwater Over Time

Remedial Investigation/Feasibility Study
Potential Source of Contamibnation 47
Naval Air Station Jacksonville
Jacksonville, Florida

Southern Plume (continued)

	JAX47-MW05S				JAX47-937-MW06D			JAX47-MW14D			JAX47-MW17S			JAX47-MW17D	
Collection Date	**6/25/2001**	**4/9/2002**	**11/29/2006**	**4/3/2007**	**6/25/2001**	**4/11/2002**	**11/30/2006**	**4/10/2002**	**2/27/2004**	**12/1/2006**	**4/4/2002**	**3/26/2004**	**12/5/2006**	**4/4/2002**	**12/5/2006**
Pesticides (µg/L)															
4,4'-DDD	1 U	**0.13**	0.076 J	NA	1 U	0.10 U	0.0004 U	0.10 U	NA	0.0004 U	**6.5**	NA	25 J	**0.26**	0.094
4,4'-DDE	1 U	0.10 U	0.13 J	NA	1 U	0.10 U	0.002 U	0.10 U	NA	0.003 J	0.48 U	NA	0.036 J	0.10 U	0.002 U
4,4'-DDT	1 U	0.10 U	0.002 U	NA	1 U	0.10 U	0.002 U	0.10 U	NA	0.003 J	**1.1**	NA	0.015 J	0.052 J	0.002 U
ALDRIN	**2**	0.050 U	3.8 J	NA	1 U	0.050 U	0.002 U	0.050 U	NA	0.002 U	0.24 U	NA	0.01 J	0.050 U	0.002 U
ALPHA-BHC	1 U	0.050 U	0.001 U	NA	1 U	0.050 U	0.001 U	0.050 U	NA	0.003 J	0.24 U	NA	0.002 UJ	0.050 U	0.001 U
ALPHA-CHLORDANE	1 U	0.054	0.58 J	NA	1 U	0.050 U	0.001 U	0.050 U	NA	0.002 J	**4.0**	NA	1.8	0.15	0.039 J
BETA-BHC	1 U	0.050 U	0.002 U	NA	1 U	0.050 U	0.002 U	0.050 U	NA	0.002 U	0.24 U	NA	0.002 U	0.050 U	0.089
DELTA-BHC	1 U	0.050 U	4 J	NA	1 U	0.050 U	0.001 U	0.050 U	NA	0.026 J	0.24 U	NA	0.032 J	0.050 U	0.031 J
DIELDRIN	1 U	0.10 U	0.018 J	NA	1 U	0.10 U	0.0008 U	0.10 U	NA	0.0008 U	0.48 U	NA	0.036 J	0.10 U	0.0008 U
ENDRIN	1 U	0.10 U	0.004 J	NA	1 U	0.10 U	0.002 UJ	0.10 U	NA	0.002 U	0.48 U	NA	0.005 J	0.10 U	0.002 U
ENRIN ALDEHYDE	6.4	0.10 U	0.009 U	NA	6	0.10 U	0.009 U	0.10 U	NA	0.009 U	0.48 U	NA	0.009 U	0.10 U	0.009 U
ENDRIN KETONE	3.3	0.10 U	1 J	NA	1 U	0.10 U	0.004 J	0.10 U	NA	0.019 J	0.48 U	NA	0.009 J	0.10 U	0.003 UJ
GAMMA-BHC (LINDANE)	1 U	0.050 U	0.058 J	NA	1 U	0.050 U	0.002 U	0.050 U	NA	0.002 J	0.24 U	NA	0.002 U	0.050 U	0.002 U
GAMMA-CHLORDANE	1 U	0.050 U	0.039 J	NA	1 U	0.050 U	0.001 UJ	0.050 U	NA	0.001 U	0.24 U	NA	1.1	0.10	0.042 J
Volatile Organics (ug/L)															
TETRACHLOROETHENE	**4.6**	0.9 J	0.9 J	NA	1 U	5 U	0.3 U	0.45 J	NA	1.3 J	**21**	NA	**2.8**	5 U	0.3 J
TRICHLOROETHENE	2.5	1 J	2	NA	1 U	0.6 J	0.3 U	5 U	NA	0.6 J	2 J	NA	0.3 U	5 U	0.3 U
CIS-1,2-DICHLOROETHENE	45.2	30	936	NA	3.9	3 J	0.9 J	0.4 J	NA	12.4	23	NA	1.8	**400**	328
TRANS-1,2-DICHLOROETHENE	1 U	0.5 J	2.5	NA	1 U	5 U	0.2 U	5 U	NA	0.2 U	5 U	NA	0.2 U	10	0.6 J
VINYL CHLORIDE	1 U	5 U	5.5	NA	1 U	5 U	0.4 U	5 U	NA	0.4 J	5 U	NA	0.4 U	**2 J**	1
BENZENE	1 U	5 U	14.6	NA	1 U	0.5 J	0.2 U	5 U	NA	0.9 J	5 U	NA	0.2 U	**11**	8.4
TOLUENE	1 U	5 U	21.9 J	NA	1 U	5 U	0.2 U	5 U	NA	0.2 U	0.4 J	NA	0.2 U	2 J	1.4
ETHYLBENZENE	1 U	5 U	135	NA	1 U	5 U	0.3 U	5 U	NA	0.3 U	**44**	NA	3.6	5	4
TOTAL XYLENES	1 U	5 U	914	NA	1 U	5 U	0.3 U	5 U	NA	0.3 U	**750**	NA	0.3 U	**54**	41.5
1,2,4-TRICHLOROBENZENE	NA	5 U	0.1 U	NA	NA	5 U	0.1 U	5 U	NA	0.1 U	5 U	NA	0.1 U	5 U	0.1 U
1,2-DICHLOROBENZENE	NA	5 U	0.3 J	NA	NA	5 U	0.2 U	5 U	NA	0.2 U	5 U	NA	0.2 U	5 U	0.2 U
1,4-DICHLOROBENZENE	NA	5 U	0.1 U	NA	NA	5 U	0.1 U	5 U	NA	0.1 U	5 U	NA	0.1 U	5 U	0.1 U
CHLOROBENZENE	NA	5 U	2.7 J	NA	NA	5 U	0.2 U	5 U	NA	0.3 J	5 U	NA	0.2 U	0.4 J	0.4 J
CYCLOHEXANE	NA	5 U	0.4 U	NA	NA	5 U	0.4 U	5 U	NA	0.4 U	5 U	NA	0.4 U	5 U	0.4 U
ISOPROPYLBENZENE	NA	5 U	3.6 J	NA	NA	5 U	0.1 U	5 U	NA	0.4 J	**10**	NA	3.8	**3 J**	4.6
METHYL CYCLOHEXANE	NA	5 U	0.6 UJ	NA	NA	5 U	0.6 UJ	5 U	NA	0.6 UJ	2 J	NA	0.6 UJ	5 U	0.6 UJ
Semi-Volatile Organics (ug/L)															
2-METHYLNAPHTHALENE	10 U	NA	2 U	NA	10 U	10 U	2 U	NA	NA	2 U	NA	NA	2 U	NA	2 U
NAPHTHALENE	3 U	NA	21	NA	3 U	10 U	3 U	NA	NA	3 U	NA	NA	3 U	NA	3 U
Metals (ug/L)															
ARSENIC	NA	NA	2310 R	2100	NA	16.4	40.3	NA	4.4	4 U	NA	2.13 U	4 U	NA	5.6

Groundwater concentrations of chlorinated and non-chlorinated VOCs are relatively low in the Northern Plume (Table 6-3). Low to moderate concentrations of VOCs have been detected in four wells (JAX47-536-MW03, JAX47-MW11S, JAX47-MW13S, and JAX47-MW25S). These are the same four wells in the Northern Plume that had the highest pesticide concentrations, which suggests these contaminants (i.e., pesticides and VOCs) may have migrated from the same source area(s). The highest concentration of TCE in the Northern Plume (23 µg/L) was detected in JAX47-MW11S (Table 6-3). Cis-1,2-DCE was also detected in this sample at 18 µg/L. Cis-1,2-DCE has also been detected in low concentrations in three other wells in the Northern Plume. Thus, it appears that a significant portion of the TCE in this plume has already degraded to cis-1,2-DCE. The fact that the chlorinated VOC concentrations are decreasing over time in most wells and biodegradation daughter products are present in the plume strongly suggest that biodegradation of the VOCs is an ongoing process and effectively causing the contaminant mass to decrease over time.

6.4.2 Southern Plume

In the Southern Plume, the highest concentrations of pesticides have been detected in six monitoring wells (JAX47-MW01S, JAX47-MW02S, JAX47-MW03S, JAX47-MW04S, JAX47-MW05S, and JAX47-MW17S), which are located beneath and south of Building 937 (Figure 5-10). These wells have each been sampled twice to four times. Data from two wells (JAX47-MW01S and JAX47-MW02S) show decreasing pesticide concentrations between 2002 and 2006 (Table 6-3). However, data from the four other shallow wells (JAX47-MW03S, -MW04S, -MW05S, and –MW17S) all display variable concentrations of pesticides between 2001 and 2006; some compound concentrations are increasing, some are decreasing, and some are fluctuating. Therefore, evidence for natural attenuation of pesticides in the Southern Plume is not conclusive.

Chlorinated VOCs have been detected in seven different permanent monitoring wells in the Southern Plume (Table 6-3, Figure 5-11). Six of these wells are the same ones that were identified above as having pesticide contamination. The seventh well (JAX47-MW17D) is a deep well and has had significant concentrations of cis-1,2-DCE and vinyl chloride, but not PCE or TCE. The highest concentrations of PCE and TCE have been detected in wells JAX47-MW02S, -MW04S, and -MW17S. These two compounds were also detected in numerous temporary wells during Phase I of the RI (Figure 5-9). Of the six permanent monitoring wells that had PCE and TCE detections and were sampled two or more times, the PCE and TCE concentrations decreased in five of the wells (JAX47-MW01S, -MW02S, -MW04S, -MW05S, and -17S) and remained stable in only one well (JAX47-MW03S). PCE and TCE did not increase in any well. Cis-1,2-DCE is a biodegradation product of PCE and TCE. This compound has been detected in every well where PCE and TCE have been detected, and often at concentrations 10 to 100 times greater than the PCE and TCE concentrations. For example, the concentration of cis-1,2-DCE in well JAX47-MW04S in December 2006 was 586 µg/L; whereas, the concentrations of PCE and TCE

were only 4 and 7.7 µg/L, respectively (Table 6-3). The concentration of cis-1,2-DCE exceeded the combined concentrations of PCE and TCE in almost every groundwater sample collected from every permanent well. This is also true for groundwater samples from the temporary wells collected during Phase I (Figure 5-9). Vinyl chloride have been detected in relatively low concentrations in a few wells in the Southern Plume (≤ 2 µg/L), which indicates that some cis-1,2-DCE is degrading anaerobically (i.e., reductive dechlorination). However, it is very likely that cis-1,2-DCE is also degrading aerobically to carbon dioxide. Overall, the data indicate that the chlorinated VOCs are degrading and their concentrations are significantly decreasing over time due largely to biodegradation, and partially to dilution and dispersion..

Elevated arsenic concentrations have been detected in the Southern Plume, but not the Northern Plume. The highest arsenic concentrations have been detected in five wells (JAX47-MW01S through JAX47-MW05S). A slightly elevated arsenic concentration (40.3 µg/L) was detected in deep well JAX47-937-MW06D in November 2006. In the five shallow wells with significant arsenic concentrations, the arsenic appears to be decreasing in three of the wells (JAX47-MW01S, JAX47-MW02S, and JAX47-MW03S) and remaining steady or oscillating in the other two wells (JAX47-MW04S and JAX47-MW05S). Thus, there is some evidence that the arsenic concentrations are decreasing over time due to dilution and dispersion. There is no evidence to suggest that arsenic is expanding beyond the area that is identified as “Arsenic Hot Spot” in Figure 5-12. If the organics (particularly the BTEX compounds) degrade as fast as they appear to be (Table 6-3), then the shallow aquifer should become more oxidizing as time progresses. Presumably, higher redox conditions (i.e., higher ORP readings) would enable the arsenic species to convert from trivalent to pentavalent arsenic. This would cause the K_d of arsenic to increase substantially, thereby reducing its mobility. Based on the data collected from 2002 to 2007, arsenic has not migrated. The discussion above suggests that migration rates in the future will be even less than currently exists.

Aside from the former location of the pesticide mixing tank south of Building 937 and the former location of an AST south of the Pesticide Shop allegedly used for storage of a diesel-malathion mixture (“hot fogger”), current or former source areas of pesticide contamination cannot be traced to bulk storage or to a suspected sole point source(s). Instead, only isolated spill events, training exercises involving pesticide usage conducted over limited time periods, and temporary storage of pesticide compounds in 55-gallon drums, have been documented as possible sources of elevated pesticide concentrations in soil and groundwater at PSC 47. Consequently, the task of defining three-dimensional plume boundaries where pesticide compounds exceed regulatory criteria is essentially a “hit-and-miss” proposition in which the objective is to identify isolated areas where relatively small quantities of pesticides were disposed of or applied, either intentionally or by accident.

6.5 CONCEPTUAL MODEL OF CONTAMINANT MIGRATION

6.5.1 Northern Plume

The Northern Plume encompasses most of Building 536 and extends a short distance to the southeast (see Figure 9-5). The primary contaminants in this plume are pesticides, herbicides, and VOCs (chlorinated VOCs and BTEX). The plume originates near Building 536, which is suspected as being the source of the contaminants in shallow groundwater. Very low concentrations of some pesticides were detected in a single deep well (JAX47-MW13D) and these concentrations decreased between 2002 and 2006, so it appears that contamination is limited almost exclusively to the shallow zone. Pesticide concentrations of four of the six shallow wells in the plume area decreased over time. Concentrations in the two other wells increased slightly between 2002 and 2006. The concentrations of VOCs and SVOCs in this plume are relatively low.

6.5.2 Southern Plume

The Southern Plume is located beneath the western part of Building 937 and extends southward about 200 ft (see Figure 9-5). The overall plume encompasses groundwater contaminated with pesticides, herbicides, and VOCs. The smaller interior area labeled “Arsenic Hot Spot” on Figure 9-5 covers the smaller area of groundwater that is contaminated with arsenic. Concentrations of pesticides and VOCs are declining relatively rapidly over time, as a result of biodegradation, dilution, and dispersion. Significant concentrations of cis-1,2-DCE in the shallow zone is clear evidence that PCE and TCE are degrading in the shallow aquifer. The presence of BTEX and other fuel-related compounds in the plume is a strong booster for PCE and TCE biodegradation.

Elevated arsenic concentrations are found in a very limited portion of the shallow aquifer (circular area about 120 ft in diameter). In the five shallow wells with significant arsenic concentrations, the arsenic appears to be decreasing in three of the wells (JAX47-MW01S, JAX47-MW02S, and JAX47-MW03S) and remaining steady or oscillating in the other two wells (JAX47-MW04S and JAX47-MW05S). Thus, there is some evidence that the arsenic concentrations are decreasing over time due to dilution and dispersion. There is no evidence that arsenic is migrating to date.

Low redox conditions (currently present) are likely affecting the sorption and precipitation of arsenic via iron(III) oxides which are unstable under reducing conditions. In addition, redox transformations of arsenic, iron, and sulfur (all present at elevated levels) can be microbially mediated, thus, microbial activity can control reaction rates. Zones of microbial activity and reducing condition develop in aquifers over time and with distance from a source of reduced carbon (Resinger et al, 2005). This is important because arsenic is mobilized in iron and manganese reduction zones and sequestered in oxidation

zones. Site natural attenuation data collected in 2003 generally supports these arguments as low redox (-100 to 100 mV), slightly acidic pH (5.0 to 6.0 pH), low dissolved oxygen (less than 1.0 mg/L), elevated ferrous iron [Fe(II) (greater than 3.0 mg/L)], and proximity to former carbon source (former mixing tank) are present. This likely explains why the arsenic "hot spot" is isolated to such a small area. Any migration of arsenic from the "hot spot" would either be sorbed or precipitated as it migrated with groundwater flow into zones of higher oxidation. However, more current natural attenuation data is needed to confirm any such argument.

In the future, as organic compounds are depleted in the plume, the redox conditions of the shallow aquifer are expected to become more oxidizing. Under these conditions, the mobility of arsenic would be expected to be even less than it is currently, in which case arsenic-contaminated groundwater is not expected to migrate in any appreciable manner.

7.0 BASELINE HUMAN HEALTH RISK ASSESSMENT

The baseline HHRA contained in this section was performed to characterize and quantify potential health risks at PSC 47 at the NAS Jacksonville in the absence of further remedial action. The results of the baseline HHRA are also used to focus the evaluation of remedial action alternatives, if action is required. The baseline HHRA consists of six major components:

- Data evaluation
- Exposure assessment
- Toxicity assessment
- Risk characterization
- Uncertainty analysis
- Remedial Goal Options

Methods for selection of COPCs to be evaluated quantitatively in the baseline HHRA, as well as those chemicals identified as COPCs for PSC 47, are described in Section 7.1, Data Evaluation. The data evaluation section is primarily concerned with the selection of COPCs that are representative of the type and magnitude of potential human health effects. The COPC screening process involves the comparison of maximum site concentrations to risk-based screening levels and other health-based standards. A brief discussion of data usability is also provided.

Potential receptor populations and exposure pathways by which receptors may come in contact with contaminants at the site are identified in Section 7.2, Exposure Assessment. Potential exposure routes under current and future land uses are developed from information on source area, chemical concentrations, chemical release mechanisms, patterns of human activity, and other pertinent information. A concise conceptual site model (CSM) illustrates the potential receptors and exposure pathways evaluated in the baseline risk assessment. The exposure assessment also includes the calculation of quantitative estimates of chemical intake for each identified receptor, pathway, and route of exposure under the reasonable maximum exposure (RME) scenario. Equations and relevant exposure input parameters used in estimating chemical intakes are provided.

The chemical-specific toxicity criteria for the identified COPCs, which are used in the quantification of potential human health risks, are presented in Section 7.3, Toxicity Assessment. These toxicity criteria, when integrated with the estimated chemical intakes developed in the exposure assessment, provide the basis for quantifying potential human health risks.

Methods used for characterizing risks associated with non-carcinogenic and carcinogenic effects for exposure to COPCs are provided in Section 7.4, Risk Characterization. Actual numerical results of the baseline HHRA for PSC 47 are summarized.

Because the quantitative risk estimates developed in the risk characterization are based on a number of assumptions (concerning exposure, land use, toxicity, etc.), various uncertainties are associated with the risk assessment process. A brief discussion of the uncertainties associated with the risk evaluation for PSC 47 is contained in Section 7.5, Uncertainty Analysis.

Site-specific risk-based PRGs for those chemicals with cancer risks and/or hazard indices (HIs) that exceed USEPA target levels are presented in Section 7.6, Remedial Goal Options.

To assess potential public health risks, four major aspects of chemical contamination and exposure must be considered: (1) contaminants with toxic characteristics must be found in environmental media; (2) the contaminants must be released by either natural processes or by human action; (3) potential exposure points must exist; and (4) human receptors must be present at the point of exposure. Risk is a function of both toxicity and exposure; without one of the factors listed above, there is no risk.

An illustration of the baseline HHRA process is provided in Figure 7-1.

The baseline HHRA for PSC 47 was conducted using the most recent guidance from the USEPA (USEPA, 1989, 1991, 1997b, and 2004a), including Regional Supplemental Guidance (USEPA Region IV, 2000a) and also considers FDEP guidance.

7.1 DATA EVALUATION

Data evaluation is a site-specific task that uses a variety of information to determine which of the detected chemicals at a site are most likely to present a risk to potential human receptors. The end result of this qualitative selection process is a list of COPCs for each environmental medium under consideration. Subsection 7.1.1 provides a brief summary of data usability, as it pertains to the baseline HHRA. The selection of COPCs for the site is contained in Subsection 7.1.2.

7.1.1 Data Usability

All sample data collected for PSC 47 were used to assess potential human health risks. The qualification of data during the formal data validation process is not expected to compromise the results of the baseline HHRA. Analytical data qualified as estimated were utilized, even though the reported positive concentrations or sample-specific quantitation limits may be somewhat imprecise. The use of estimated

Insert Figure 7-1 here

data adds to the uncertainty associated with the risk assessment; however, the associated uncertainty is expected to be negligible compared to the other uncertainties inherent in the risk evaluation process (i.e., uncertainties with land uses, exposure scenarios, toxicological criteria, etc.).

7.1.2 Selection of COPCs

The overall goal of the baseline HHRA is to quantify risks associated with those chemicals that represent a potentially significant human health hazard on the basis of toxicity, environmental concentration, and mobility. USEPA guidance (USEPA, 1989 and USEPA, 2000a) recommends focusing the baseline risk assessment by quantifying risk only for a select list of COPCs at a site. These chemicals, which are a subset of all detected chemicals in a given medium, are defined as those chemicals likely to dominate the overall potential risks for a site.

Several types of screening levels were used to identify COPCs for PSC 47. Screening concentrations based on USEPA Region 9 PRGs (USEPA, 2004b) were used, as well as other FDEP and USEPA criteria. The risk-based screening concentrations correspond to a systemic Hazard Quotient (HQ) of 0.1 (for non-carcinogens) or a lifetime cancer risk of 1×10^{-6} (for carcinogens). Note that the Region 9 PRGs are based on a HQ of 1.0 and the screening concentrations are based on a HQ of 0.1. Conservatively, PRGs used as screening levels for non-carcinogenic chemicals have been divided by a factor of 10 to further account for the potential cumulative effects of several chemicals affecting the same target organ or producing the same adverse non-carcinogenic health effect. The screening levels used for each medium in the risk assessment are briefly discussed below.

Soil

The following criteria were used to select COPCs for soil (surface and subsurface soil):

- USEPA Region 9 PRGs for Residential Soil (USEPA, 2004b)
- USEPA generic soil screening levels (SSLs) for migration to groundwater (USEPA, 2007a)
- USEPA generic SSLs for transfers from soil to air (USEPA, 2007a)
- FDEP SCTLs for residential exposures to soil (FDEP, 2005)
- FDEP SCTLs for migration to groundwater (FDEP, 2005)

USEPA SSLs and FDEP SCTLs for transfers from soil to groundwater were not used for COPC selection, but were presented to allow a qualitative evaluation of the potential for chemical migration from soil to groundwater. Chemicals with concentrations exceeding these SSLs and FDEP SCTLs may potentially migrate from the soil to groundwater in sufficient quantities to pose concerns about groundwater quality.

Site soil data are compared to USEPA generic SSLs for transfers from soil to air to identify whether a quantitative analysis of this exposure pathway is warranted. If the maximum soil concentration of a chemical exceeds the SSL, a quantitative evaluation of potential risks from inhalation is performed. Otherwise, the risks associated with the inhalation pathway are considered insignificant, and the exposure pathway is eliminated from further evaluation.

Because of the different exposure scenarios for potential human receptors, COPCs are identified separately for surface and subsurface soil. Surface soil is defined as soil collected from 0 to 1 ft bls and subsurface soil is defined as soil collected from depths greater than 1 ft bls.

Groundwater

The following criteria were used to select COPCs for groundwater:

- USEPA Region 9 PRGs for tap water (USEPA, 2004b)
- FDEP GCTLs, (FDEP, 2005)
- USEPA MCLs (USEPA, 2006)
- USEPA Generic Screening Levels for Evaluating the Vapor Intrusion to Indoor Air (USEPA, 2002a)

If the maximum concentration of a constituent exceeds any of these criteria, the chemical was selected as a COPC and carried through to the quantitative risk assessment.

The essential nutrients, calcium, magnesium, potassium, and sodium, were not identified as COPCs. These inorganic chemicals are naturally abundant in environmental matrices and are only toxic at high doses. In addition, because of the lack of toxicity criteria, risk-based COPC screening levels are not available for some compounds (e.g., benzo(g,h,i)perylene, phenanthrene, alpha and gamma-chlordane, delta-BHC, endosulfan, endrin aldehyde, and endrin ketone). Surrogates were selected for these chemicals based on similar chemical structures. In the COPC screening, pyrene was selected as a surrogate for benzo(g,h,i)perylene and phenanthrene, chlordane was selected as a surrogate for alpha and gamma-chlordane, endosulfan was selected as a surrogate for endosulfan sulfate, and endrin was selected as a surrogate for endrin aldehyde and endrin ketone.

Individual chemicals were eliminated as COPCs if they were detected at a frequency less than 5 percent in any given medium, but only if there were no other indications that the chemical would pose an unacceptable risk to receptors (i.e., there is no evidence of a contaminant “hot spot”).

Maximum detected concentrations (in a single sample) in each sample medium for PSC 47 were compared to the risk-based and health-based screening criteria. If the maximum concentration exceeded

any of the screening criteria, that chemical was retained as a COPC for all significant exposures involving that medium. For example, if arsenic was retained for soil, this chemical was evaluated as a COPC for both ingestion and dermal exposure routes. If none of the chemicals detected in a medium exceeded screening criteria, that medium was dropped from further consideration and the potential risks associated with exposure to that medium are regarded as relatively insignificant.

Tables 7-1 and 7-2 summarize the screening criteria used in the selection of COPCs. The results for the selection process are provided in the remainder of this section.

7.1.2.1 Surface Soil

Three VOCs, 14 SVOCs, 20 pesticides/PCBs, and arsenic were detected in surface soil samples from PSC 47. A comparison of the maximum detected concentrations to the risk-based screening levels for direct contact exposures is presented in Table 7-3. The following chemicals were detected at maximum concentrations in surface soil that exceeded the direct contact risk-based COPC screening levels and were retained as COPCs for surface soil at PSC 47.

- SVOCs [benzo(a)pyrene and dibenzo(a,h)anthracene]
- Pesticides/PCBs (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-chlordane, dieldrin, gamma-chlordane, heptachlor, and heptachlor epoxide)
- Arsenic

A comparison of the maximum detected surface soil concentrations to USEPA SSLs for chemical migration from soil to air (when available) is also presented in Table 7-3. Concentrations reported for all chemicals were less than the screening criteria for migration from soil to air with the exception of 4,4'-DDT and dieldrin. Therefore 4,4'-DDT and dieldrin were retained as COPCs for migration from surface soil to air at PSC 47.

A comparison of the maximum detected surface soil concentrations to USEPA SSLs for chemical migration from soil to groundwater is presented in Table 7-4. The following chemicals were detected in surface soil at maximum concentrations exceeding the COPC screening levels for migration from soil to groundwater and were retained as COPCs for surface soil at the PSC 47.

- Pesticides/PCBs (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, alpha-chlordane, beta-BHC, dieldrin, endrin, gamma-BHC, gamma-chlordane, and heptachlor epoxide)
- Arsenic

Table 7-1
Screening Criteria Used in Selection of COPCs - Soil

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 2

Chemical	USEPA Region IX PRG [1] Residential (ug/kg)	USEPA SSL [2] Soil to Air (ug/kg)	USEPA SSL [2] Soil to Groundwater (ug/kg)	FDEP [3] Soil Residential (ug/kg)	FDEP [3] Soil Leachability (ug/kg)
Volatile Organic Compounds (ug/kg)					
2-Butanone	22,000,000 N	24,000,000 sat	89,000 N	16,000,000	17,000
Acetone	14,000,000 N	NA	130,000 N	11,000,000	25,000
Methylene Chloride	9,100 C	13,000 C	23 C	17,000	20
Toluene	520,000 sat	650,000 sat	12,000 MCL	7,500,000	500
Semivolatile Organic Compounds (ug/kg)					
Benzo(a)anthracene	620 C	NA	3,200 C	[9]	800
Benzo(a)pyrene	62 C	NA	8,200 MCL	100	8,000
Benzo(b)fluoranthene	620 C	NA	9,800 C	[9]	2,400
Benzo(g,h,i)perylene	2,300,000 N[4]	NA	NA	2,500,000	32,000,000
Benzo(k)fluoranthene	6,200 C	NA	9,800 C	[9]	24,000
Bis(2-ethylhexyl)phthalate	35,000 C	NA	3,600,000 MCL	72,000	3,600,000
Butyl benzyl phthalate	12,000,000 N	NA	17,000,000 N	17,000,000	310,000
Chrysene	62,000 C	NA	3,200 C	[9]	77,000
Dibenzo(a,h)anthracene	62 C	NA	30,000 C	[9]	700
Dimethyl phthalate	100,000,000 max	NA	NA	690,000,000	380,000
Fluoranthene	2,300,000 N	NA	6,300,000 N	3,200,000	1,200,000
Indeno(1,2,3-cd)pyrene	620 C	NA	28,000 C	[9]	6,600
Phenanthrene	2,300,000 N[4]	NA	NA	22,000	250,000
Pyrene	2,300,000 N	NA	4,600,000 N	2,400,000	880,000
Pesticides/PCBs (ug/kg)					
4,4'-DDD	2,400 C	NA	14,000 C	4,200	5,800
4,4'-DDE	1,700 C	NA	45,000 C	2,900	18,000
4,4'-DDT	1,700 C	750,000 C	26,000 C	2,900	11,000
Aldrin	29 C	3,400 C	500 C	60	200
Alpha-BHC	90 C	750 C	0.72 C	100	0.3
Alpha-Chlordane	1,600 C[5]	72,000 C	9,600 MCL	2,800[5]	9,600[5]
Beta-BHC	320 C	6,000 C	2.6 C	500	1
Delta-BHC	90 C[6]	NA	NA	24,000	200
Dieldrin	30 C	1,100 C	5 C	60	2
Endosulfan I	370,000 N[7]	NA	NA	450,000[7]	3,800[7]
Endosulfan II	370,000 N[7]	NA	NA	450,000[7]	3,800[7]
Endosulfan Sulfate	370,000 N[7]	NA	NA	450,000[7]	3,800[7]
Endrin	18,000 N	NA	990 MCL	25,000	1,000
Endrin Aldehyde	18,000 N[8]	NA	NA	NA	NA
Endrin Ketone	18,000 N[8]	NA	NA	NA	NA
Gamma-BHC	440 C	NA	9.4 MCL	700	9
Gamma-Chlordane	1,600 C[5]	72,000 C	9,600 MCL	2,800[5]	9,600[5]
Heptachlor	110 C	4,100 C	23,000 MCL	200	23,000
Heptachlor Epoxide	53 C	4,700 C	670 MCL	100	600
Methoxychlor	310,000 N	NA	160,000 MCL	420,000	160,000
Inorganics (mg/kg)					
Arsenic	0.39 C	769 C	5.8 MCL	2.1	[10]

Table 7-1
Screening Criteria Used in Selection of COPCs - Soil

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Notes:
1 - USEPA Region 9 Preliminary Remedial Goal Table, October 1, 2004. (Cancer benchmark value = 1E-06, HI = 1.0)
2 - EPA Soil Screening Levels. EPA Internet Site at http://rais.ornl.gov/epa/ssl1.shtml.
The soil-to-groundwater SSLs value represents a DAF of 20.
3 - Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
4 - Value is for pyrene.
5 - Value is for chlordane.
6 - Value is for alpha-BHC.
7 - Value is for endosulfan.
8 - Value is for endrin.
9 - Chemical concentration must be converted to benzo(a)pyrene equivalents before comparison to SCTL for benzo(a)pyrene.
10 - Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs.

Definitions:	MCL = Maximum Contaminant Level
NA = Not Available	PRG = Preliminary Remedial Goal
C = Carcinogenic	SSL = Soil Screening Level
N = Non-Carcinogenic	FDEP = Florida Department of Environmental Protection
sat = saturation concentration	FAC = Florida Administrative Code

Table 7-2
Screening Criteria Used in Selection of COPCs - Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	USEPA Region IX PRG [1] Tap Water (ug/L)	FDEP [2] Groundwater (ug/L)	USEPA MCL [3] (ug/L)	USEPA Groundwater to Indoor Air [4] (ug/L)
Volatile Organic Compounds				
1,1-Dichloroethane	810 N	70	NA	2,200 N
1,1-Dichloroethene	340 N	7	7	190 N
1,2,4-Trichlorobenzene	7.2 N	70	70	3,400 N
1,2-Dibromo-3-Chloropropane	0.35 N[5]	200	NA	33 N
1,2-Dichlorobenzene	370 N	600	600	2,600 N
1,3-Dichlorobenzene	180 N	0.2	NA	830 N
1,4-Dichlorobenzene	0.5 C	75	75	8,200 N
2-Butanone	7,000 N	4,200	NA	440,000 N
Benzene	0.35 C	1	5	5 MCL
Bromoform	8.5 C	4.4	80	0.0083 C
Chlorobenzene	110 N	100	100	390 N
Chloroethane	4.6 C	12	NA	2 C
Chloroform	0.17 N	70	80	80 MCL
cis-1,2-Dichloroethene	61 N	70	70	210 N
Cyclohexane	10,000 N	NA	NA	NA
Diethyl Ether	1,200 N	750	NA	520 N
Ethylbenzene	1,300 N	30	700	700 MCL
Isopropylbenzene	660 N	0.8	NA	8 N
Methyl Cyclohexane	5,200 N	NA	NA	710 N
Methyl Tert-Butyl Ether	11 C	20	NA	120,000 C
Styrene	1,600 N	100	100	8,900 N
Tetrachloroethene	0.1 C	3	5	5 MCL
Toluene	720 N	40	1,000	1,500 N
Total Xylenes	210 N	20	10,000	22,000 N
Trans-1,2-Dichloroethene	120 N	1	100	180 N
Trichloroethene	0.028 C	3	5	5 MCL
Vinyl Chloride	0.02 C	1	2	2 MCL
Semivolatile Organic Compounds				
1,1-Biphenyl	300 N	0.5	NA	NA
2,4,5-Trichlorophenol	3600 N	1	NA	NA
2,4-Dichlorophenol	110 N	0.3	NA	NA
2,4-Dimethylphenol	730 N	140	NA	NA
2-Methylnaphthalene	6.2 N[6]	28	NA	3,300 N
2-Methylphenol	1,800 N	35	NA	NA
Diethyl Phthalate	29,000 N	5,600	NA	NA
Naphthalene	6.2 N	14	NA	150 N
Pentachlorophenol	0.56 C	1	1	NA
Pesticides/PCBs				
4,4'-DDD	0.28 C	0.1	NA	NA
4,4'-DDE	0.2 C	0.1	NA	29 C
4,4'-DDT	0.2 C	0.1	NA	NA
Aldrin	0.004 C	0.002	NA	0.071 C
Alpha-BHC	0.011 C	0.006	NA	3.1 C
Alpha-Chlordane	0.19 C[7]	2[7]	2[7]	12 C[7]
Beta-BHC	0.037 C	0.02	NA	NA
Delta-BHC	0.011 C[8]	2.1	NA	NA
Dieldrin	0.0042 C	0.002	NA	0.86 C
Endosulfan I	220 N[9]	42[9]	NA	NA
Endosulfan II	220 N[9]	42[9]	NA	NA
Endosulfan Sulfate	220 N[9]	42[9]	NA	NA
Endrin	11 N	2	2	NA
Endrin Aldehyde	11 N[10]	2[10]	NA	NA
Endrin Ketone	11 N[10]	2[10]	NA	NA

Table 7-2
Screening Criteria Used in Selection of COPCs - Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 2

Chemical	USEPA Region IX PRG [1] Tap Water (ug/L)	FDEP [2] Groundwater (ug/L)	USEPA MCL [3] (ug/L)	USEPA Groundwater to Indoor Air[4] (ug/L)
gamma-BHC (Lindane)	0.052 C	0.2	0.2	11 C
gamma-Chlordane	0.19 C[7]	2[7]	2[7]	12 C[7]
Heptachlor	0.015 C	0.4	0.4	0.4 MCL
Heptachlor Epoxide	0.0074 C	0.2	0.2	NA
Methoxychlor	180 N	40	40	NA
Inorganics				
Arsenic	0.045 C	10	10	NA

Notes:
1 - USEPA Region IX Preliminary Remedial Goal Table, October 2004.
(Cancer benchmark value = 1E-06, HI = 1.0)
2 - FAC 62-777
3 - 2006 Edition of the Drinking Water Standards and Health Advisories, USEPA (EPA 822-R-06-013).
4 - Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils. November 2002. EPA530-F-02-052. Values are from Table 2c. (Cancer benchmark = 1E-6 or HI =1.0).
5 - One tenth of the noncarcinogenic PRG is less than the carcinogenic PRG, therefore the noncarcinogenic PRG is presented.
6 - Value is for naphthalene.
7 - Value is for chlordane.
8 - Value is for alpha-BHC.
9 - Value is for endosulfan
10 - Value is for endrin

Definitions:
NA = Not Available
C = Carcinogenic
N = Non-Carcinogenic
PRG = Risk-Based Concentration
FDEP = Florida Department of Environmental Protection
MCL = Maximum Contaminant Level

Table 7-3
Occurrence, Distribution, and Selection of COPCs
Surface Soil - Direct Contact Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	USEPA SSL Soil to Air[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
Volatile Organics Compounds															
78-93-3	2-Butanone	12	77	µg/kg	JAX47-SB001	3/4	1.4 - 1.4	77	NA	2,200,000 N	16,000,000	FDEP	24,000,000 sat	No	BSL
67-64-1	Acetone	23.7 J	23.7 J	µg/kg	JAX47-SB118	1/4	6 - 22	23.7	NA	1,400,000 N	11,000,000	FDEP	NA	No	BSL
75-09-2	Methylene Chloride	5.6 J	20 J	µg/kg	JAX47-SB001	4/4	-	20	NA	9,100 C	17,000	FDEP	13,000 C	No	BSL
SemivolatileOrganicsCompounds															
	BaP Equivalent	190	640	µg/kg	JAX47-SB001	2/4	127 - 360	640	NA	62 C	100	FDEP	NA	Yes	ASL
56-55-3	Benzo(a)anthracene	120 J	230 J	µg/kg	JAX47-SB001	2/4	170 - 360	230	NA	620 C	1,000	FDEP	NA	No	BSL
50-32-8	Benzo(a)pyrene	130 J	380 J	µg/kg	JAX47-SB001	2/4	127 - 360	380	NA	62 C	100	FDEP	NA	Yes	ASL
205-99-2	Benzo(b)fluoranthene	120 J	560 J	µg/kg	JAX47-SB001	2/4	120 - 360	560	NA	620 C	1,000	FDEP	NA	No	BSL
191-24-2	Benzo(g,h,i)perylene	67 J	420 J	µg/kg	JAX47-SB001	2/4	152 - 360	420	NA	230,000 N[10]	2,500,000	FDEP	NA	No	BSL
207-08-9	Benzo(k)fluoranthene	140 J	410 J	µg/kg	JAX47-SB001	2/4	145 - 360	410	NA	6,200 C	10,000	FDEP	NA	No	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	130 J	1400	µg/kg	JAX47-SB001	2/4	221 - 360	1400	NA	35,000 C	72,000	FDEP	NA	No	BSL
85-68-7	Butyl Benzyl Phthalate	35 J	360 J	µg/kg	JAX47-SB001	2/4	137 - 360	360	NA	1,200,000 N	17,000,000	FDEP	NA	No	BSL
218-01-9	Chrysene	150 J	480 J	µg/kg	JAX47-SB001	2/4	148 - 360	480	NA	62,000 C	100,000	FDEP	NA	No	BSL
53-70-3	Dibenzo(a,h)anthracene	28 J	140 J	µg/kg	JAX47-SB001	2/4	210 - 360	140	NA	62 C	100	FDEP	NA	Yes	ASL
131-11-3	Dimethyl Phthalate	340 J	340 J	µg/kg	JAX47-SB001	1/4	123 - 430	340	NA	61,000 N	690,000,000	FDEP	NA	No	BSL
206-44-0	Fluoranthene	93 J	530 J	µg/kg	JAX47-SB001	2/4	153 - 360	530	NA	230,000 N	3,200,000	FDEP	NA	No	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	76 J	400 J	µg/kg	JAX47-SB001	2/4	206 - 360	400	NA	620 C	1,000	FDEP	NA	No	BSL
85-01-8	Phenanthrene	21 J	160 J	µg/kg	JAX47-SB001	2/4	153 - 360	160	NA	230,000 N[10]	22,000	FDEP	NA	No	BSL
129-00-0	Pyrene	120 J	520 J	µg/kg	JAX47-SB001	2/4	159 - 360	520	NA	230,000 N	2,400,000	FDEP	NA	No	BSL
Pesticides/PCBs															
72-54-8	4,4'-DDD	0.63 J	17000 J	µg/kg	JAX47-SB096	76/130	0 - 10000	17000	NA	2,400 C	4,200	FDEP	NA	Yes	ASL
72-55-9	4,4'-DDE	0.37 J	28000	µg/kg	JX01216	115/130	0.34 - 12.5	28000	NA	1,700 C	2,900	FDEP	NA	Yes	ASL
50-29-3	4,4'-DDT	0.33 J	2700000 J	µg/kg	JAX47-SB096	110/130	0.18 - 12.5	2700000	NA	1,700 C	2,900	FDEP	750,000 C	Yes	ASL
309-00-2	Aldrin	0.31 J	13.9	µg/kg	JAX47-SB029	3/130	0.2 - 5300	13.9	NA	29 C	60	FDEP	3,400 C	No	BSL
319-84-6	alpha-BHC	0.18 J	3.7 J	µg/kg	JAX47-SB096	12/130	0.13 - 5300	3.7	NA	90 C	100	FDEP	750 C	No	BSL
5103-71-9	alpha-Chlordane	0.33 J	50000 J	µg/kg	JAX47-SB094	47/130	0.27 - 2300	50000	NA	1,600 C[11]	2,800[11]	FDEP	72,000 C	Yes	ASL
319-85-7	beta-BHC	0.37 J	110 J	µg/kg	JAX47-SB089	23/130	0.34 - 5300	110	NA	320 C	500	FDEP	6,000 C	No	BSL
319-86-8	delta-BHC	0.34 J	82.5	µg/kg	JAX47-SB025	16/130	0.17 - 5300	82.5	NA	90 C[12]	24,000	FDEP	NA	No	BSL
60-57-1	Dieldrin	0.29 J	3400	µg/kg	JAX47-SB050, JAX47-SB106	59/130	0.24 - 4400	3400	NA	30 C	60	FDEP	1,100 C	Yes	ASL
959-98-8	Endosulfan I	7.2	400 J	µg/kg	JAX47-SB094	3/130	0.27 - 5300	400	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
33213-65-9	Endosulfan II	1.3 J	220 J	µg/kg	JAX47-SB087	7/130	0.23 - 10000	220	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
1031-07-8	Endosulfan Sulfate	0.33 J	200	µg/kg	JAX47-SB011	23/130	0.27 - 10000	200	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
72-20-8	Endrin	0.61 J	1400	µg/kg	JAX47-SB094	28/130	0.37 - 10000	1400	NA	1,800 N	25,000	FDEP	NA	No	BSL
7421-93-4	Endrin Aldehyde	0.24 J	130 J	µg/kg	JAX47-SB096	18/130	0.17 - 10000	130	NA	1,800 N[14]	NA	FDEP	NA	No	BSL
53494-70-5	Endrin Ketone	0.31 J	127.9	µg/kg	JAX47-SB024	17/130	0.3 - 10000	127.9	NA	1,800 N[14]	NA	FDEP	NA	No	BSL
58-89-9	gamma-BHC (Lindane)	0.28 J	210	µg/kg	JX01285	13/130	0.17 - 5300	210	NA	440 C	NA	FDEP	NA	No	BSL
5103-74-2	gamma-Chlordane	0.34 J	37000	µg/kg	JAX47-SB094	59/130	0.23 - 2300	37000	NA	1,600 C[11]	2,800[11]	FDEP	72,000 C	Yes	ASL

Table 7-3
Occurrence, Distribution, and Selection of COPCs
Surface Soil - Direct Contact Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]		Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	USEPA SSL Soil to Air[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
76-44-8	Heptachlor	0.24 J	3400 J	µg/kg	JAX47-SB096	23/130	0.23 - 5300	3400	NA	110	C	200	FDEP	4,100 C	Yes	ASL
1024-57-3	Heptachlor Epoxide	0.82 J	920 J	µg/kg	JAX47-SB094	30/130	0.57 - 5300	920	NA	53	C	100	FDEP	4,700 C	Yes	ASL
72-43-5	Methoxychlor	0.45 J	210 J	µg/kg	JAX47-SB096	24/130	0.34 - 53000	210	NA	31,000	N	420,000	FDEP	NA	No	BSL
Inorganics																
7440-38-2	Arsenic	0.2	47.4	mg/kg	JAX47-SB103	27/54	0.2 - 2.2	47.4	NA	0.39	C	2.1	FDEP	769 C	Yes	ASL

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - The risk-based COPC screening level for residential exposures to soil is presented. The value is based on a target Hazard Quotient of 0.1 for non-carcinogens (denoted with a "N" flag) or an incremental cancer risk of 1E-6 for carcinogens (denoted with a "C" flag) (USEPA, Region 9, October 2004). The RBCs for non-carcinogenic compounds are divided by 10.
7 - Soil Cleanup Target Levels taken from Table II, FAC 62-777 (FDEP, February 2005).
8 - USEPA Soil Screening Levels. USEPA Internet Site at http://risk.lsd.ornl.gov/calc_start.htm (SSLs for non-carcinogens are divided by 10).
9 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
10 - Value is for pyrene.
11 - Value is for chlordane.
12 - Value is for alpha-BHC.
13 - Value is for endosulfan.
14 - Value is for endrin.

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
N = Non-carcinogen
NA = Not Applicable/Not Available
max = ceiling limit
sat = soil saturation limit
SSL = Soil Screening Level

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BSL = Below COPC Screening Level/ARAR/TBC

Table 7-4
Occurrence, Distribution, and Selection of COPCs
Surface Soil - Migration to Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	USEPA SSL Soil to Groundwater[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	COPC Flag[8]	Rationale for Contaminant Deletion or Selection
Volatile Organic Compounds														
78-93-3	2-Butanone	12	77	µg/kg	JAX47-SB001	3/4	1.4 - 1.4	77	NA	89000 N	17000	FDEP	No	BSL
67-64-1	Acetone	23.7 J	23.7 J	µg/kg	JAX47-SB118	1/4	6 - 22	23.7	NA	130000 N	25000	FDEP	No	BSL
75-09-2	Methylene Chloride	5.6 J	20 J	µg/kg	JAX47-SB001	4/4	-	20	NA	23 C	20	FDEP	No	BSL
SemivolatileOrganicsCompounds														
	BaP Equivalent	190	640	µg/kg	JAX47-SB001	2/4	127 - 360	640	NA	8200 MCL	8000	FDEP	No	BSL
56-55-3	Benzo(a)anthracene	120 J	230 J	µg/kg	JAX47-SB001	2/4	170 - 360	230	NA	3200 C	800	FDEP	No	BSL
50-32-8	Benzo(a)pyrene	130 J	380 J	µg/kg	JAX47-SB001	2/4	127 - 360	380	NA	8200 MCL	8000	FDEP	No	BSL
205-99-2	Benzo(b)fluoranthene	120 J	560 J	µg/kg	JAX47-SB001	2/4	120 - 360	560	NA	9800 C	2400	FDEP	No	BSL
191-24-2	Benzo(g,h,i)perylene	67 J	420 J	µg/kg	JAX47-SB001	2/4	152 - 360	420	NA	NA	32000000	FDEP	No	BSL
207-08-9	Benzo(k)fluoranthene	140 J	410 J	µg/kg	JAX47-SB001	2/4	145 - 360	410	NA	9800 C	24000	FDEP	No	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	130 J	1400	µg/kg	JAX47-SB001	2/4	221 - 360	1400	NA	3600000 MCL	3600000	FDEP	No	BSL
85-68-7	Butyl Benzyl Phthalate	35 J	360 J	µg/kg	JAX47-SB001	2/4	137 - 360	360	NA	17000000 N	310000	FDEP	No	BSL
218-01-9	Chrysene	150 J	480 J	µg/kg	JAX47-SB001	2/4	148 - 360	480	NA	3200 C	77000	FDEP	No	BSL
53-70-3	Dibenzo(a,h)anthracene	28 J	140 J	µg/kg	JAX47-SB001	2/4	210 - 360	140	NA	30000 C	700	FDEP	No	BSL
131-11-3	Dimethyl Phthalate	340 J	340 J	µg/kg	JAX47-SB001	1/4	123 - 430	340	NA	NA	380000	FDEP	No	BSL
206-44-0	Fluoranthene	93 J	530 J	µg/kg	JAX47-SB001	2/4	153 - 360	530	NA	6300000 N	1200000	FDEP	No	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	76 J	400 J	µg/kg	JAX47-SB001	2/4	206 - 360	400	NA	28000 C	6600	FDEP	No	BSL
85-01-8	Phenanthrene	21 J	160 J	µg/kg	JAX47-SB001	2/4	153 - 360	160	NA	NA	250000	FDEP	No	BSL
129-00-0	Pyrene	120 J	520 J	µg/kg	JAX47-SB001	2/4	159 - 360	520	NA	4600000 N	880000	FDEP	No	BSL
Pesticides/PCBs														
72-54-8	4,4'-DDD	0.63 J	17000 J	µg/kg	JAX47-SB096	76/130	0 - 10000	17000	NA	14000 C	5800	FDEP	Yes	ASL
72-55-9	4,4'-DDE	0.37 J	28000	µg/kg	JX01216	115/130	0.34 - 12.5	28000	NA	45000 C	18000	FDEP	Yes	ASL
50-29-3	4,4'-DDT	0.33 J	2700000 J	µg/kg	JAX47-SB096	110/130	0.18 - 12.5	2700000	NA	26000 C	11000	FDEP	Yes	ASL
309-00-2	Aldrin	0.31 J	13.9	µg/kg	JAX47-SB029	3/130	0.2 - 5300	13.9	NA	500 C	200	FDEP	No	BSL
319-84-6	alpha-BHC	0.18 J	3.7 J	µg/kg	JAX47-SB096	12/130	0.13 - 5300	3.7	NA	0.72 C	0.3	FDEP	Yes	ASL
5103-71-9	alpha-Chlordane	0.33 J	50000 J	µg/kg	JAX47-SB094	47/130	0.27 - 2300	50000	NA	9600[9] MCL	9600[9]	FDEP	Yes	ASL
319-85-7	beta-BHC	0.37 J	110 J	µg/kg	JAX47-SB089	23/130	0.34 - 5300	110	NA	2.6 C	1	FDEP	Yes	ASL
319-86-8	delta-BHC	0.34 J	82.5	µg/kg	JAX47-SB025	16/130	0.17 - 5300	82.5	NA	NA	200	FDEP	No	BSL
60-57-1	Dieldrin	0.29 J	3400	µg/kg	7-SB050, JAX47-S	59/130	0.24 - 4400	3400	NA	4.6 C	2	FDEP	Yes	ASL
959-98-8	Endosulfan I	7.2	400 J	µg/kg	JAX47-SB094	3/130	0.27 - 5300	400	NA	NA	3,800	FDEP	No	BSL
33213-65-9	Endosulfan II	1.3 J	220 J	µg/kg	JAX47-SB087	7/130	0.23 - 10000	220	NA	NA	3,800	FDEP	No	BSL
1031-07-8	Endosulfan Sulfate	0.33 J	200	µg/kg	JAX47-SB011	23/130	0.27 - 10000	200	NA	NA	3,800	FDEP	No	BSL
72-20-8	Endrin	0.61 J	1400	µg/kg	JAX47-SB094	28/130	0.37 - 10000	1400	NA	990 MCL	1000	FDEP	Yes	ASL
7421-93-4	Endrin Aldehyde	0.24 J	130 J	µg/kg	JAX47-SB096	18/130	0.17 - 10000	130	NA	NA	NA	FDEP	No	NTX
53494-70-5	Endrin Ketone	0.31 J	127.9	µg/kg	JAX47-SB024	17/130	0.3 - 10000	127.9	NA	NA	NA	FDEP	No	NTX
58-89-9	gamma-BHC (Lindane)	0.28 J	210	µg/kg	JX01285	13/130	0.17 - 5300	210	NA	9.4 MCL	9	FDEP	Yes	ASL
5103-74-2	gamma-Chlordane	0.34 J	37000	µg/kg	JAX47-SB094	59/130	0.23 - 2300	37000	NA	9600[9] MCL	9600[9]	FDEP	Yes	ASL
76-44-8	Heptachlor	0.24 J	3400 J	µg/kg	JAX47-SB096	23/130	0.23 - 5300	3400	NA	23000 MCL	23000	FDEP	No	BSL
1024-57-3	Heptachlor Epoxide	0.82 J	920 J	µg/kg	JAX47-SB094	30/130	0.57 - 5300	920	NA	670 MCL	600	FDEP	Yes	ASL
72-43-5	Methoxychlor	0.45 J	210 J	µg/kg	JAX47-SB096	24/130	0.34 - 53000	210	NA	160000 MCL	160000	FDEP	No	BSL
Inorganics														
7440-38-2	Arsenic	0.2	47.4	mg/kg	JAX47-SB103	27/54	0.2 - 2.2	47.4	NA	5.8 MCL	NA	FDEP	Yes	ASL

Table 7-4
Occurrence, Distribution, and Selection of COPCs
Surface Soil - Migration to Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - USEPA Soil Screening Levels. USEPA Internet Site at http://risk.lsd.ornl.gov/calc_start.htm (SSLs for non-carcinogens are divided by 10).
7 - Soil Cleanup Target Levels taken from Table II, FAC 62-777.
8 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
9 - Value is for chlordane.

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BSL = Below COPC Screening Level/ARAR/TBC
NTX = No toxicity criteria

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
Definitions Continued:
MCL = Maximum Contaminant Level
N = Non-carcinogen
NA = Not Applicable/Not Available
SSL = Soil Screening Level

7.1.2.2 Subsurface Soil

Four VOCs, 11 SVOCs, 20 pesticides/PCBs, and arsenic were detected in subsurface soil samples from PSC 47. A comparison of the maximum detected concentrations to the risk-based screening levels for direct contact exposures is presented in Table 7-5. The following chemicals were detected at maximum concentrations in subsurface soil that exceeded the direct contact risk-based COPC screening levels and were retained as COPCs for subsurface soil at PSC 47.

- SVOCs [benzo(a)pyrene]
- Pesticides/PCBs (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, alpha-chlordane, beta-BHC, delta-BHC, dieldrin, gamma-BHC, gamma-chlordane, heptachlor, and heptachlor epoxide)
- Arsenic

Concentrations of all chemicals detected in subsurface soil were less than the USEPA SSLs for migration from soil to air (Table 7-5) with the exception of alpha-BHC and dieldrin. Therefore, alpha-BHC and dieldrin were retained as COPCs for migration from subsurface soil to air at PSC 47.

A comparison of the maximum detected subsurface soil concentrations to USEPA SSLs for chemical migration from soil to groundwater is presented in Table 7-6. The following chemicals were detected in subsurface soil at maximum concentrations exceeding the COPC screening levels for migration from soil to groundwater and were retained as COPCs for subsurface soil at the PSC 47.

- Pesticides/PCBs (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, alpha-chlordane, beta-BHC, dieldrin, delta-BHC, gamma-BHC, and gamma-chlordane)
- Arsenic

7.1.2.3 Groundwater

Twenty six (26) VOCs, 9 SVOCs, 20 pesticides/PCBs, and arsenic were detected in groundwater samples from PSC 47. A comparison of the maximum detected concentrations to the risk-based screening levels is presented in Table 7-7. The following chemicals were detected at maximum concentrations in groundwater that exceeded the risk-based COPC screening levels and were retained as COPCs for groundwater at PSC 47.

- VOCs (1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, 1,4-dichlorobenzene, benzene, chlorobenzene, chloroform, cis-1,2-DCE, ethylbenzene, isopropylbenzene, PCE, total xylenes, trans-1,2-DCE, TCE, and vinyl chloride)

Table 7-5
Occurrence, Distribution, and Selection of COPCs
Subsurface Soil - Direct Contact Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	USEPA SSL Soil to Air[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
Volatile Organics Compounds															
78-93-3	2-Butanone	43	43	µg/kg	JAX47-SB010	1/2	1.3 - 1.3	43	NA	2,200,000 N	16,000,000	FDEP	24,000,000 sat	No	BSL
67-64-1	Acetone	43	43.2 J	µg/kg	JAX47-SB118	2/2	-	43.2	NA	1,400,000 N	11,000,000	FDEP	NA	No	BSL
75-09-2	Methylene Chloride	5.1 J	8	µg/kg	JAX47-SB010	2/2	-	8	NA	9,100 C	17,000	FDEP	13,000 C	No	BSL
108-88-3	Toluene	6 J	6 J	µg/kg	JAX47-SB010	1/2	0.2 - 0.2	6	NA	520,000 sat	7,500,000	FDEP	650,000 sat	No	BSL
Semivolatile Organics Compounds															
CALC013	**BaP Equivalent**	410	410	µg/kg	JAX47-SB010	1/2	134 - 134	410	NA	62 C	100	FDEP	NA	Yes	ASL
56-55-3	Benzo(a)anthracene	86 J	86 J	µg/kg	JAX47-SB010	1/2	180 - 180	86	NA	620 C	1,000	FDEP	NA	No	BSL
50-32-8	**Benzo(a)pyrene**	120 J	120 J	µg/kg	JAX47-SB010	1/2	134 - 134	120	NA	62 C	100	FDEP	NA	Yes	ASL
205-99-2	Benzo(b)fluoranthene	180 J	180 J	µg/kg	JAX47-SB010	1/2	126 - 126	180	NA	620 C	1,000	FDEP	NA	No	BSL
191-24-2	Benzo(g,h,i)perylene	110 J	110 J	µg/kg	JAX47-SB010	1/2	160 - 160	110	NA	230,000 N[10]	2,500,000	FDEP	NA	No	BSL
207-08-9	Benzo(k)fluoranthene	120 J	120 J	µg/kg	JAX47-SB010	1/2	153 - 153	120	NA	6,200 C	10,000	FDEP	NA	No	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	88 J	88 J	µg/kg	JAX47-SB010	1/2	233 - 233	88	NA	35,000 C	72,000	FDEP	NA	No	BSL
218-01-9	Chrysene	170 J	170 J	µg/kg	JAX47-SB010	1/2	156 - 156	170	NA	62,000 C	100,000	FDEP	NA	No	BSL
206-44-0	Fluoranthene	190 J	190 J	µg/kg	JAX47-SB010	1/2	161 - 161	190	NA	230,000 N	3,200,000	FDEP	NA	No	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	120 J	120 J	µg/kg	JAX47-SB010	1/2	218 - 218	120	NA	620 C	1,000	FDEP	NA	No	BSL
85-01-8	Phenanthrene	49 J	49 J	µg/kg	JAX47-SB010	1/2	161 - 161	49	NA	230,000 N[10]	22,000	FDEP	NA	No	BSL
129-00-0	Pyrene	210 J	210 J	µg/kg	JAX47-SB010	1/2	168 - 168	210	NA	230,000 N	2,400,000	FDEP	NA	No	BSL
Pesticides/PCBs															
72-54-8	**4,4'-DDD**	0.67 J	220000	µg/kg	JX01296	30/62	0.31 - 5	220000	NA	2,400 C	4,200	FDEP	NA	Yes	ASL
72-55-9	**4,4'-DDE**	0.54 J	25000	µg/kg	JX01266	44/62	0.34 - 5	25000	NA	1,700 C	2,900	FDEP	NA	Yes	ASL
50-29-3	**4,4'-DDT**	0.38 J	420000	µg/kg	JX01266	46/62	0.15 - 5	420000	NA	1,700 C	2,900	FDEP	750,000 C	Yes	ASL
309-00-2	Aldrin	0.24 J	0.24 J	µg/kg	JAX47-SB094	1/62	0.2 - 260	0.24	NA	29 C	60	FDEP	3,400 C	No	BSL
319-84-6	**alpha-BHC**	0.4 J	2500	µg/kg	JX01247	8/62	0.14 - 260	2500	NA	90 C	100	FDEP	750 C	Yes	ASL
5103-71-9	**alpha-Chlordane**	0.32 J	37000	µg/kg	JX01296	27/62	0.27 - 5	37000	NA	1,600 C[11]	2,800[11]	FDEP	72,000 C	Yes	ASL
319-85-7	**beta-BHC**	0.44 J	4200	µg/kg	JX01247	17/62	0.34 - 260	4200	NA	320 C	500	FDEP	6,000 C	Yes	ASL
319-86-8	**delta-BHC**	0.22 J	30000	µg/kg	JX01247	16/62	0.17 - 260	30000	NA	90 C[12]	24,000	FDEP	NA	Yes	ASL
60-57-1	**Dieldrin**	0.26 J	9000	µg/kg	JX01296	27/62	0.24 - 500	9000	NA	30 C	60	FDEP	1,100 C	Yes	ASL
959-98-8	Endosulfan I	0.32 J	0.4 J	µg/kg	JAX47-SB080	3/62	0.27 - 260	0.4	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
33213-65-9	Endosulfan II	0.31 J	39 J	µg/kg	JAX47-SB087	6/62	0.24 - 500	39	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
1031-07-8	Endosulfan Sulfate	0.42 J	7.2 J	µg/kg	JAX47-SB110	2/62	0.27 - 500	7.2	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
72-20-8	Endrin	0.64 J	49 J	µg/kg	JAX47-SB110	6/62	0.37 - 500	49	NA	1,800 N	25,000	FDEP	NA	No	BSL
7421-93-4	Endrin Aldehyde	0.17 J	0.76 J	µg/kg	JAX47-SB079	5/62	0.17 - 500	0.76	NA	1,800 N[14]	NA	FDEP	NA	No	BSL
53494-70-5	Endrin Ketone	0.42 J	20.5	µg/kg	JAX47-SB010	6/62	0.31 - 500	20.5	NA	1,800 N[14]	NA	FDEP	NA	No	BSL
58-89-9	**gamma-BHC (Lindane)**	0.32 J	4000	µg/kg	JX01247	9/62	0.17 - 260	4000	NA	440 C		FDEP	NA	Yes	ASL
5103-74-2	**gamma-Chlordane**	0.26 J	47000	µg/kg	JX01296	30/62	0.24 - 260	47000	NA	1,600 C[11]	2,800[11]	FDEP	72,000 C	Yes	ASL
76-44-8	**Heptachlor**	0.29 J	190 J	µg/kg	JAX47-SB110	5/62	0.24 - 260	190	NA	110 C	200	FDEP	4,100 C	Yes	ASL
1024-57-3	**Heptachlor Epoxide**	0.98 J	280 J	µg/kg	JAX47-SB110	10/62	0.58 - 260	280	NA	53 C	100	FDEP	4,700 C	Yes	ASL
72-43-5	Methoxychlor	0.49 J	13.5	µg/kg	JAX47-SB010	4/62	0.34 - 2600	13.5	NA	31,000 N	420,000	FDEP	NA	No	BSL
Inorganics															
7440-38-2	**Arsenic**	0.2	132	mg/kg	JAX47-SB105	24/56	0.2 - 1.1	132	NA	0.39 C	2.1	FDEP	769 C	Yes	ASL

Table 7-5
Occurrence, Distribution, and Selection of COPCs
Subsurface Soil - Direct Contact Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - The risk-based COPC screening level for residential exposures to soil is presented. The value is based on a target Hazard Quotient of 0.1 for non-carcinogens (denoted with a "N" flag) or an incremental cancer risk of 1E-6 for carcinogens (denoted with a "C" flag) (USEPA, Region 9, October 2004). The RBCs for non-carcinogenic compounds are divided by 10.
7 - Soil Cleanup Target Levels taken from Table II, FAC 62-777 (FDEP, February 2005).
8 - USEPA Soil Screening Levels. USEPA Internet Site at http://risk.lsd.ornl.gov/calc_start.htm (SSLs for non-carcinogens are divided by 10).
9 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
10 - Value is for pyrene.
11 - Value is for chlordane.
12 - Value is for alpha-BHC.
13 - Value is for endosulfan.
14 - Value is for endrin.

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
N = Non-carcinogen
NA = Not Applicable/Not Available
max = ceiling limit
sat = soil saturation limit
SSL = Soil Screening Level

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BSL = Below COPC Screening Level/ARAR/TBC

Table 7-6
Occurrence, Distribution, and Selection of COPCs
Subsurface Soil - Migration to Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	USEPA SSL Soil to Groundwater[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	COPC Flag[8]	Rationale for Contaminant Deletion or Selection
Volatile Organic Compounds														
78-93-3	2-Butanone	43	43	µg/kg	JAX47-SB010	1/2	1.3 - 1.3	43	NA	89000 N	17000	FDEP	No	BSL
67-64-1	Acetone	43	43.2 J	µg/kg	JAX47-SB118	2/2	-	43.2	NA	130000 N	25000	FDEP	No	BSL
75-09-2	Methylene Chloride	5.1 J	8	µg/kg	JAX47-SB010	2/2	-	8	NA	23 C	20	FDEP	No	BSL
108-88-3	Toluene	6 J	6 J	µg/kg	JAX47-SB010	1/2	0.2 - 0.2	6	NA	12000 MCL	500	FDEP	No	BSL
Semivolatile Organics Compounds														
	BaP Equivalent	410	410	µg/kg	JAX47-SB010	1/2	134 - 134	410	NA	8200 MCL	8000	FDEP	No	BSL
56-55-3	Benzo(a)anthracene	86 J	86 J	µg/kg	JAX47-SB010	1/2	180 - 180	86	NA	3200 C	800	FDEP	No	BSL
50-32-8	Benzo(a)pyrene	120 J	120 J	µg/kg	JAX47-SB010	1/2	134 - 134	120	NA	8200 MCL	8000	FDEP	No	BSL
205-99-2	Benzo(b)fluoranthene	180 J	180 J	µg/kg	JAX47-SB010	1/2	126 - 126	180	NA	9800 C	2400	FDEP	No	BSL
191-24-2	Benzo(g,h,i)perylene	110 J	110 J	µg/kg	JAX47-SB010	1/2	160 - 160	110	NA	NA	32000000	FDEP	No	BSL
207-08-9	Benzo(k)fluoranthene	120 J	120 J	µg/kg	JAX47-SB010	1/2	153 - 153	120	NA	9800 C	24000	FDEP	No	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	88 J	88 J	µg/kg	JAX47-SB010	1/2	233 - 233	88	NA	3600000 MCL	3600000	FDEP	No	BSL
218-01-9	Chrysene	170 J	170 J	µg/kg	JAX47-SB010	1/2	156 - 156	170	NA	3200 C	77000	FDEP	No	BSL
206-44-0	Fluoranthene	190 J	190 J	µg/kg	JAX47-SB010	1/2	161 - 161	190	NA	6300000 N	1200000	FDEP	No	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	120 J	120 J	µg/kg	JAX47-SB010	1/2	218 - 218	120	NA	28000 C	6600	FDEP	No	BSL
85-01-8	Phenanthrene	49 J	49 J	µg/kg	JAX47-SB010	1/2	161 - 161	49	NA	NA	250000	FDEP	No	BSL
129-00-0	Pyrene	210 J	210 J	µg/kg	JAX47-SB010	1/2	168 - 168	210	NA	4600000 N	880000	FDEP	No	BSL
Pesticides/PCBs														
72-54-8	4,4'-DDD	0.67 J	220000	µg/kg	JX01296	30/62	0.31 - 5	220000	NA	14000 C	5800	FDEP	Yes	ASL
72-55-9	4,4'-DDE	0.54 J	25000	µg/kg	JX01266	44/62	0.34 - 5	25000	NA	45000 C	18000	FDEP	Yes	ASL
50-29-3	4,4'-DDT	0.38 J	420000	µg/kg	JX01266	46/62	0.15 - 5	420000	NA	26000 C	11000	FDEP	Yes	ASL
309-00-2	Aldrin	0.24 J	0.24 J	µg/kg	JAX47-SB094	1/62	0.2 - 260	0.24	NA	500 C	200	FDEP	No	BSL
319-84-6	alpha-BHC	0.4 J	2500	µg/kg	JX01247	8/62	0.14 - 260	2500	NA	0.72 C	0.3	FDEP	Yes	ASL
5103-71-9	alpha-Chlordane	0.32 J	37000	µg/kg	JX01296	27/62	0.27 - 5	37000	NA	9600[9] MCL	9600[9]	FDEP	Yes	ASL
319-85-7	beta-BHC	0.44 J	4200	µg/kg	JX01247	17/62	0.34 - 260	4200	NA	2.6 C	1	FDEP	Yes	ASL
319-86-8	delta-BHC	0.22 J	30000	µg/kg	JX01247	16/62	0.17 - 260	30000	NA	NA	200	FDEP	Yes	ASL
60-57-1	Dieldrin	0.26 J	9000	µg/kg	JX01296	27/62	0.24 - 500	9000	NA	4.6 C	2	FDEP	Yes	ASL
959-98-8	Endosulfan I	0.32 J	0.4 J	µg/kg	JAX47-SB080	3/62	0.27 - 260	0.4	NA	NA	3,800	FDEP	No	BSL
33213-65-9	Endosulfan II	0.31 J	39 J	µg/kg	JAX47-SB087	6/62	0.24 - 500	39	NA	NA	3,800	FDEP	No	BSL
1031-07-8	Endosulfan Sulfate	0.42 J	7.2 J	µg/kg	JAX47-SB110	2/62	0.27 - 500	7.2	NA	NA	3,800	FDEP	No	BSL
72-20-8	Endrin	0.64 J	49 J	µg/kg	JAX47-SB110	6/62	0.37 - 500	49	NA	990 MCL	1000	FDEP	No	BSL
7421-93-4	Endrin Aldehyde	0.17 J	0.76 J	µg/kg	JAX47-SB079	5/62	0.17 - 500	0.76	NA	NA	NA	FDEP	No	NTX
53494-70-5	Endrin Ketone	0.42 J	20.5	µg/kg	JAX47-SB010	6/62	0.31 - 500	20.5	NA	NA	NA	FDEP	No	NTX
58-89-9	gamma-BHC (Lindane)	0.32 J	4000	µg/kg	JX01247	9/62	0.17 - 260	4000	NA	9.4 MCL	9	FDEP	Yes	ASL
5103-74-2	gamma-Chlordane	0.26 J	47000	µg/kg	JX01296	30/62	0.24 - 260	47000	NA	9600[9] MCL	9600[9]	FDEP	Yes	ASL
76-44-8	Heptachlor	0.29 J	190 J	µg/kg	JAX47-SB110	5/62	0.24 - 260	190	NA	23000 MCL	23000	FDEP	No	BSL
1024-57-3	Heptachlor Epoxide	0.98 J	280 J	µg/kg	JAX47-SB110	10/62	0.58 - 260	280	NA	670 MCL	600	FDEP	No	BSL
72-43-5	Methoxychlor	0.49 J	13.5	µg/kg	JAX47-SB010	4/62	0.34 - 2600	13.5	NA	160000 MCL	160000	FDEP	No	BSL
Inorganics														
7440-38-2	Arsenic	0.2	132	mg/kg	JAX47-SB105	24/56	0.2 - 1.1	132	NA	5.8 MCL	NA	FDEP	Yes	ASL

Table 7-6
Occurrence, Distribution, and Selection of COPCs
Subsurface Soil - Migration to Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - USEPA Soil Screening Levels. USEPA Internet Site at http://risk.lsd.ornl.gov/calc_start.htm (SSLs for non-carcinogens are divided by 10).
7 - Soil Cleanup Target Levels taken from Table II, FAC 62-777.
8 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.
9 - Value is for chlordane.

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BKG = Within background levels
BSL = Below COPC Screening Level/ARAR/TBC
NTX = No toxicity criteria

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
Definitions Continued:
MCL = Maximum Contaminant Level
N = Non-carcinogen
NA = Not Applicable/Not Available
SSL = Soil Screening Level

Table 7-7
Occurrence, Distribution, and Selection of COPCs
Groundwater-Direct Contact Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
Volatile Organic Compounds																
75-35-4	1,1-Dichloroethene	0.4 J	0.7 J	µg/L	JAX47-937-MW03S, JAX47-937-MW04S	4/34	0.2 - 0.2	0.7	NA	34 N	7	FDEP	7	NA	No	BSL
120-82-1	1,2,4-Trichlorobenzene	1.8	8.6	µg/L	JAX47-MW13S	4/34	0.1 - 0.9	8.6	NA	0.72 N	70	FDEP	70	MCL	Yes	ASL
96-12-8	1,2-Dibromo-3-Chloropropane	2.7	2.7	µg/L	JAX47-937-MW02S	1/34	0.3 - 0.3	2.7	NA	0.0035 N	200	FDEP	NA	MCL	Yes	ASL
95-50-1	1,2-Dichlorobenzene	0.3 J	4.4 J	µg/L	JAX47-MW13S	4/34	0.2 - 0.2	4.4	NA	37 N	600	FDEP	600	MCL	No	BSL
541-73-1	1,3-Dichlorobenzene	0.6 J	2 J	µg/L	JAX47-MW13S	2/34	0.2 - 0.2	2	NA	18 N	210	FDEP	NA	NA	No	BSL
106-46-7	1,4-Dichlorobenzene	0.4 J	6.3 J	µg/L	JAX47-MW13S	4/34	0.1 - 0.1	6.3	NA	0.5 C	75	FDEP	75	MCL	Yes	ASL
78-93-3	2-Butanone	4.06 J	4.06 J	µg/L	JAX47-MW30S	1/34	2 - 2	4.06	NA	700 N	4200	FDEP	NA	NA	No	BSL
71-43-2	Benzene	0.22 J	14.6	µg/L	JAX47-937-MW05S	14/34	0.2 - 0.2	14.6	NA	0.35 C	1	FDEP	5	MCL	Yes	ASL
75-25-2	Bromoform	1.5 J	1.5 J	µg/L	JAX47-937-MW02S	1/34	0.2 - 0.2	1.5	NA	8.5 C	4.4	FDEP	80	NA	No	BSL
108-90-7	Chlorobenzene	0.2 J	12.7	µg/L	JAX47-MW11S	10/34	0.2 - 0.2	12.7	NA	11 N	100	FDEP	100	NA	Yes	ASL
75-00-3	Chloroethane	1	1	µg/L	JAX47-937-MW02S	1/34	0.3 - 0.3	1	NA	4.6 C	12	FDEP	NA	NA	No	BSL
67-66-3	Chloroform	0.37 J	0.37 J	µg/L	JAX47-MW30S	1/34	0.2 - 0.2	0.37	NA	0.017 N	70	FDEP	80	MCL	Yes	ASL
156-59-2	cis-1,2-Dichloroethene	0.5 J	936	µg/L	JAX47-937-MW05S	15/34	0.2 - 0.2	936	NA	6.1 N	70	FDEP	70	MCL	Yes	ASL
110-82-7	Cyclohexane	1.5	38.3	µg/L	JAX47-MW11S	2/34	0.4 - 0.45	38.3	NA	1000 N	NA	FDEP	NA	NA	No	BSL
60-29-7	Diethyl Ether	0.8 J	0.9 J	µg/L	JAX47-937-MW05S	2/34	0.5 - 0.54	0.9	NA	120 N	750	FDEP	NA	NA	No	BSL
100-41-4	Ethylbenzene	0.5 J	135	µg/L	JAX47-937-MW05S	8/34	0.3 - 0.3	135	NA	130 N	30	FDEP	700	MCL	Yes	ASL
98-82-8	Isopropylbenzene	0.3 J	9	µg/L	JAX47-MW11S	10/34	0.1 - 0.1	9	NA	66 N	0.8	FDEP	NA	NA	Yes	ASL
108-87-2	Methyl Cyclohexane	0.7 J	22.7 J	µg/L	JAX47-MW11S	3/34	0.55 - 0.6	22.7	NA	520 N	NA	FDEP	NA	NA	No	BSL
1634-04-4	Methyl Tert-Butyl Ether	0.2 J	0.2 J	µg/L	JAX47-937-MW01S	1/34	0.2 - 0.2	0.2	NA	11 C	20	FDEP	NA	NA	No	BSL
100-42-5	Styrene	0.75 J	1.7	µg/L	JAX47-937-MW02S	2/34	0.1 - 0.1	1.7	NA	160 N	100	FDEP	100	MCL	No	BSL
127-18-4	Tetrachloroethene	0.9 J	4 J	µg/L	JAX47-937-MW04S	7/34	0.3 - 0.3	4	NA	0.1 C	3	FDEP	5	MCL	Yes	ASL
108-88-3	Toluene	0.6 J	21.9 J	µg/L	JAX47-937-MW05S	5/34	0.2 - 0.51	21.9	NA	72 N	40	FDEP	1000	MCL	No	BSL
1330-20-7	Total Xylenes	0.6 J	914	µg/L	JAX47-937-MW05S	8/34	0.3 - 0.43	914	NA	21 N	20	FDEP	10000	MCL	Yes	ASL
156-60-5	trans-1,2-Dichloroethene	0.5 J	4.5	µg/L	JAX47-937-MW04S	6/34	0.2 - 0.2	4.5	NA	12 N	1	FDEP	100	MCL	Yes	ASL
79-01-6	Trichloroethene	0.3 J	7.7	µg/L	JAX47-937-MW04S	11/34	0.3 - 0.3	7.7	NA	0.028 C	3	FDEP	5	MCL	Yes	ASL
75-01-4	Vinyl Chloride	0.4 J	5.5	µg/L	JAX47-937-MW05S	6/34	0.4 - 0.4	5.5	NA	0.02 C	1	FDEP	2	MCL	Yes	ASL
Semivolatile Organic Compounds																
92-52-4	1,1-Biphenyl	5 J	8 J	µg/L	JAX47-MW11S	2/34	3 - 3	8	NA	30 N	0.5	FDEP	NA	NA	Yes	ASL
95-95-4	2,4,5-Trichlorophenol	104	2720	µg/L	JAX47-937-MW03S	2/34	2 - 2	2720	NA	360 N	1	FDEP	NA	NA	Yes	ASL
120-83-2	2,4-Dichlorophenol	6 J	529	µg/L	JAX47-937-MW03S	3/34	2 - 2	529	NA	11 N	0.3	FDEP	NA	NA	Yes	ASL
105-67-9	2,4-Dimethylphenol	16	16	µg/L	JAX47-937-MW05S	1/34	2 - 2	16	NA	73 N	28	FDEP	NA	NA	No	BSL
91-57-6	2-Methylnaphthalene	10 J	103	µg/L	JAX47-MW11S	3/34	2 - 2	103	NA	0.62 N	28	FDEP	NA	NA	Yes	ASL
95-48-7	2-Methylphenol	6 J	6 J	µg/L	JAX47-937-MW05S	1/34	2 - 2	6	NA	180 N	35	FDEP	NA	NA	No	BSL
84-66-2	Diethyl Phthalate	9 J	9 J	µg/L	JAX47-MW29S	1/34	2 - 2	9	NA	2900 N	5600	FDEP	NA	NA	No	BSL
91-20-3	Naphthalene	14	194	µg/L	JAX47-MW11S	4/34	3 - 3	194	NA	0.62 N	14	FDEP	NA	NA	Yes	ASL
87-86-5	Pentachlorophenol	11	12 J	µg/L	JAX47-937-MW04S	2/34	1 - 1	12	NA	0.56 C	1	FDEP	1	NA	Yes	ASL

Table 7-7
Occurrence, Distribution, and Selection of COPCs
Groundwater-Direct Contact Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
Pesticides/PCBs																
72-54-8	4,4'-DDD	0.001 J	25 J	µg/L	JAX47-MW17S	10/34	0.0004 - 0.0004	25	NA	0.28 C	0.1	FDEP	NA	NA	Yes	ASL
72-55-9	4,4'-DDE	0.002 J	0.13 J	µg/L	JAX47-937-MW05S	11/34	0.002 - 0.002	0.13	NA	0.2 C	0.1	FDEP	NA	NA	Yes	ASL
50-29-3	4,4'-DDT	0.002 J	0.49	µg/L	JAX47-MW13S	8/34	0.002 - 0.003	0.49	NA	0.2 C	0.1	FDEP	NA	NA	Yes	ASL
309-00-2	Aldrin	0.01 J	3.8 J	µg/L	JAX47-937-MW05S	7/34	0.002 - 0.002	3.8	NA	0.004 C	0.002	FDEP	NA	NA	Yes	ASL
319-84-6	alpha-BHC	0.003 J	9.3	µg/L	JAX47-MW11S	9/34	0.001 - 0.002	9.3	NA	0.011 C	0.006	FDEP	NA	MCL	Yes	ASL
5103-71-9	alpha-Chlordane	0.002 J	1.8	µg/L	JAX47-MW17S	12/34	0.001 - 0.001	1.8	NA	0.19 C[10]	2	FDEP	2	NA	Yes	ASL
319-85-7	beta-BHC	0.003 J	3.9 J	µg/L	JAX47-937-MW04S	12/34	0.002 - 0.002	3.9	NA	0.037 C	0.02	FDEP	NA	NA	Yes	ASL
319-86-8	delta-BHC	0.002 J	8.3	µg/L	JAX47-MW11S	15/34	0.001 - 0.062	8.3	NA	0.011 C[11]	2.1	FDEP	NA	NA	Yes	ASL
60-57-1	Dieldrin	0.003 J	0.32 J	µg/L	JAX47-937-MW03S	14/34	0.0008 - 0.0008	0.32	NA	0.0042 C	0.002	FDEP	NA	MCL	Yes	ASL
959-98-8	Endosulfan I	0.011 J	0.077	µg/L	JAX47-MW17S	3/34	0.002 - 0.002	0.077	NA	22 N[12]	42[12]	FDEP	NA	NA	No	BSL
33213-65-9	Endosulfan II	0.003 J	0.039 J	µg/L	JAX47-MW30S	8/34	0.002 - 0.002	0.039	NA	22 N[12]	42[12]	FDEP	NA	NA	No	BSL
1031-07-8	Endosulfan Sulfate	0.005 J	0.21 J	µg/L	JAX47-937-MW05S	10/34	0.002 - 0.002	0.21	NA	22 N[12]	42[12]	FDEP	NA	NA	No	BSL
72-20-8	Endrin	0.002 J	0.044 J	µg/L	JAX47-937-MW05S	6/34	0.002 - 0.003	0.044	NA	1.1 N	2	FDEP	2	MCL	No	BSL
7421-93-4	Endrin Aldehyde	0.011 J	0.021 J	µg/L	JAX47-MW13S	1/34	0.009 - 0.009	0.021	NA	1.1 N[13]	2[13]	FDEP	NA	MCL	No	BSL
53494-70-5	Endrin Ketone	0.004 J	4.7 J	µg/L	JAX47-937-MW02S	11/34	0.003 - 0.003	4.7	NA	1.1 N[13]	2[13]	FDEP	NA	NA	Yes	ASL
58-89-9	gamma-BHC (Lindane)	0.002 J	15	µg/L	JAX47-MW11S	10/34	0.002 - 0.002	15	NA	0.052 C	0.2	FDEP	0.2	NA	Yes	ASL
5103-74-2	gamma-Chlordane	0.016 J	1.1	µg/L	JAX47-MW17S	9/34	0.001 - 0.001	1.1	NA	0.19 C[10]	2	FDEP	2	NA	Yes	ASL
76-44-8	Heptachlor	0.001 J	0.22	µg/L	JAX47-MW17D	11/34	0.001 - 0.001	0.22	NA	0.015 C	0.4	FDEP	0.4	MCL	Yes	ASL
1024-57-3	Heptachlor Epoxide	0.004 J	0.62 J	µg/L	JAX47-MW14S	7/34	0.001 - 0.001	0.62	NA	0.0074 C	0.2	FDEP	0.2	NA	Yes	ASL
72-43-5	Methoxychlor	0.011 J	1.1 J	µg/L	JAX47-MW11S, JAX47-937-MW05S	6/34	0.003 - 0.003	1.1	NA	18 N	40	FDEP	40	MCL	No	BSL
Total Inorganics																
7440-38-2	Arsenic	4.1	6640	µg/L	JAX47-937-MW02S	12/34	4 - 18.3	6640	13.2	0.045 C	10	FDEP	10	MCL	Yes	ASL
Filtered Inorganics																
7440-38-2	Arsenic	10	26	µg/L	JAX47-937-MW01S	2/4	4 - 4	26	13.2	0.045 C	10	FDEP	10	MCL	Yes	ASL

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
Footnotes Continued
6 - The risk-based COPC screening level for tap water use is presented. The value is based on a target Hazard Quotient of 0.1 for non-carcinogens (denoted with a "N" flag) or an incremental cancer risk of 1E-6 for carcinogens (denoted with a "C" flag) (USEPA, Region 9, October 2004).
The PRG for non-carcinogenic compounds are divided by 10.
7 - Groundwater Cleanup Target Levels taken from Table I, FAC 62-777 (FDEP, February 2005).
8 - 2006 Edition of the Drinking Water Standards and Health Advisories, USEPA (EPA 822-R-06-013) Summer 2006.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
FDEP = Florida Department of Environmental Protection
J = Estimated value with undetermined bias

Definitions
MCL = Maximum contaminant level
N = Non-carcinogen
NA = Not Applicable/Not Available

Rationale Codes:

Table 7-7
Occurrence, Distribution, and Selection of COPCs
Groundwater-Direct Contact Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection

9 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
10 - Value is for chlordane.
11 - Value is for alpha-BHC.
12 - Value is for endosulfan
13 - Value is for endrin

For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BKG = Within background levels
BSL = Below COPC Screening Level/ARAR/TBC

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.

- SVOCs (1,1-biphenyl, 2,4,5-trichlorophenol, 2,4-dichlorophenol, 2-methylnaphthalene, naphthalene, and pentachlorophenol)
- Pesticides/PCBs (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, alpha-BHC, alpha-chlordane, beta-BHC, delta-BHC, dieldrin, endrin ketone, gamma-BHC, gamma-chlordane, heptachlor, and heptachlor epoxide)
- Arsenic

Maximum detected concentrations in groundwater were also compared to screening criteria for the migration of chemicals from groundwater through building foundations and into indoor air (Table 7-8). The following chemicals were detected at maximum concentrations that exceeded the screening criteria and were retained as COPCs for the migration from groundwater to indoor air exposure pathway.

- VOCs (benzene, bromoform, cis-1,2-DCE, isopropylbenzene, TCE, and vinyl chloride)
- SVOCs (naphthalene)
- Pesticides/PCBs (aldrin, alpha-BHC, and gamma-BHC)

A summary of the chemicals retained as COPCs in surface soil, subsurface soil, and groundwater at PSC 47 is presented in Table 7-9.

7.2 EXPOSURE ASSESSMENT

The exposure assessment defines and evaluates the exposures experienced by likely receptor populations at a site. In order to have an exposure, several factors must be present: (1) a source and mechanism of release; (2) a route of contaminant transport through an environmental medium; (3) a contact point for a human receptor; and (4) an exposure route at the point of contact. All four components must be present for the exposures to occur.

The exposure assessment presented in this section of the report consists of several subsections in which the physical site setting and the potential receptors of concern are characterized, the potential contaminant migration and exposure pathways are identified, the contaminant concentrations at the point of exposure are defined, and the equations used to quantify exposure in terms of contaminant intake (dose) are presented.

Appendix K of this report contains sample calculations for the quantification of contaminant intakes, as well as the chemical-specific intakes for PSC 47.

Table 7-8
Occurrence, Distribution, and Selection of COPCs
Groundwater-Vapor Intrusion

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	COPC Flag[7]	Rationale for Contaminant Deletion or Selection
Volatile Organic Compounds												
75-35-4	1,1-Dichloroethene	0.4 J	0.7 J	µg/L	JAX47-937-MW03S, JAX47-937-MW04S	4/34	0.2 - 0.2	0.7	NA	190 N	No	BSL
120-82-1	1,2,4-Trichlorobenzene	1.8	8.6	µg/L	JAX47-MW13S	4/34	0.1 - 0.9	8.6	NA	3400 N	No	BSL
96-12-8	1,2-Dibromo-3-Chloropropane	2.7	2.7	µg/L	JAX47-937-MW02S	1/34	0.3 - 0.3	2.7	NA	33 N	No	BSL
95-50-1	1,2-Dichlorobenzene	0.3 J	4.4 J	µg/L	JAX47-MW13S	4/34	0.2 - 0.2	4.4	NA	2600 N	No	BSL
541-73-1	1,3-Dichlorobenzene	0.6 J	2 J	µg/L	JAX47-MW13S	2/34	0.2 - 0.2	2	NA	830 N	No	BSL
106-46-7	1,4-Dichlorobenzene	0.4 J	6.3 J	µg/L	JAX47-MW13S	4/34	0.1 - 0.1	6.3	NA	8200 N	No	BSL
78-93-3	2-Butanone	4.06 J	4.06 J	µg/L	JAX47-MW30S	1/34	2 - 2	4.06	NA	440000 N	No	BSL
71-43-2	Benzene	0.22 J	14.6	µg/L	JAX47-937-MW05S	14/34	0.2 - 0.2	14.6	NA	5 MCL	Yes	ASL
75-25-2	Bromoform	1.5 J	1.5 J	µg/L	JAX47-937-MW02S	1/34	0.2 - 0.2	1.5	NA	0.0083 C	Yes	ASL
108-90-7	Chlorobenzene	0.2 J	12.7	µg/L	JAX47-MW11S	10/34	0.2 - 0.2	12.7	NA	390 N	No	BSL
75-00-3	Chloroethane	1	1	µg/L	JAX47-937-MW02S	1/34	0.3 - 0.3	1	NA	28000 C	No	BSL
67-66-3	Chloroform	0.37 J	0.37 J	µg/L	JAX47-MW30S	1/34	0.2 - 0.2	0.37	NA	80 MCL	No	BSL
156-59-2	cis-1,2-Dichloroethene	0.5 J	936	µg/L	JAX47-937-MW05S	15/34	0.2 - 0.2	936	NA	210 N	Yes	ASL
110-82-7	Cyclohexane	1.5	38.3	µg/L	JAX47-MW11S	2/34	0.4 - 0.45	38.3	NA	NA	No	NTX
60-29-7	Diethyl Ether	0.8 J	0.9 J	µg/L	JAX47-937-MW05S	2/34	0.5 - 0.54	0.9	NA	520 N	No	BSL
100-41-4	Ethylbenzene	0.5 J	135	µg/L	JAX47-937-MW05S	8/34	0.3 - 0.3	135	NA	700 MCL	No	BSL
98-82-8	Isopropylbenzene	0.3 J	9	µg/L	JAX47-MW11S	10/34	0.1 - 0.1	9	NA	8.4 N	Yes	ASL
108-87-2	Methyl Cyclohexane	0.7 J	22.7 J	µg/L	JAX47-MW11S	3/34	0.55 - 0.6	22.7	NA	710 N	No	BSL
1634-04-4	Methyl Tert-Butyl Ether	0.2 J	0.2 J	µg/L	JAX47-937-MW01S	1/34	0.2 - 0.2	0.2	NA	120000 C	No	BSL
100-42-5	Styrene	0.75 J	1.7	µg/L	JAX47-937-MW02S	2/34	0.1 - 0.1	1.7	NA	8900 N	No	BSL
127-18-4	Tetrachloroethene	0.9 J	4 J	µg/L	JAX47-937-MW04S	7/34	0.3 - 0.3	4	NA	5 MCL	No	BSL
108-88-3	Toluene	0.6 J	21.9 J	µg/L	JAX47-937-MW05S	5/34	0.2 - 0.51	21.9	NA	1500 N	No	BSL
1330-20-7	Total Xylenes	0.6 J	914	µg/L	JAX47-937-MW05S	8/34	0.3 - 0.43	914	NA	22000 N	No	BSL
156-60-5	trans-1,2-Dichloroethene	0.5 J	4.5	µg/L	JAX47-937-MW04S	6/34	0.2 - 0.2	4.5	NA	180 N	No	BSL
79-01-6	Trichloroethene	0.3 J	7.7	µg/L	JAX47-937-MW04S	11/34	0.3 - 0.3	7.7	NA	5 MCL	Yes	ASL
75-01-4	Vinyl Chloride	0.4 J	5.5	µg/L	JAX47-937-MW05S	6/34	0.4 - 0.4	5.5	NA	2 MCL	Yes	ASL
Semivolatile Organic Compounds												
92-52-4	1,1-Biphenyl	5 J	8 J	µg/L	JAX47-MW11S	2/34	3 - 3	8	NA	NA	No	NTX
95-95-4	2,4,5-Trichlorophenol	104	2720	µg/L	JAX47-937-MW03S	2/34	2 - 2	2720	NA	NA	No	NTX
120-83-2	2,4-Dichlorophenol	6 J	529	µg/L	JAX47-937-MW03S	3/34	2 - 2	529	NA	NA	No	NTX
105-67-9	2,4-Dimethylphenol	16	16	µg/L	JAX47-937-MW05S	1/34	2 - 2	16	NA	NA	No	NTX
91-57-6	2-Methylnaphthalene	10 J	103	µg/L	JAX47-MW11S	3/34	2 - 2	103	NA	3300 N	No	BSL
95-48-7	2-Methylphenol	6 J	6 J	µg/L	JAX47-937-MW05S	1/34	2 - 2	6	NA	NA	No	NTX
84-66-2	Diethyl Phthalate	9 J	9 J	µg/L	JAX47-MW29S	1/34	2 - 2	9	NA	NA	No	NTX
91-20-3	Naphthalene	14	194	µg/L	JAX47-MW11S	4/34	3 - 3	194	NA	150 N	Yes	ASL
87-86-5	Pentachlorophenol	11	12 J	µg/L	JAX47-937-MW04S	2/34	1 - 1	12	NA	NA	No	NTX

Table 7-8
Occurrence, Distribution, and Selection of COPCs
Groundwater-Vapor Intrusion

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[5]	COPC Flag[7]	Rationale for Contaminant Deletion or Selection
Pesticides/PCBs												
72-54-8	4,4'-DDD	0.001 J	25 J	µg/L	JAX47-MW17S	10/34	0.0004 - 0.0004	25	NA	NA	No	NTX
72-55-9	4,4'-DDE	0.002 J	0.13 J	µg/L	JAX47-937-MW05S	11/34	0.002 - 0.002	0.13	NA	29 C	No	BSL
50-29-3	4,4'-DDT	0.002 J	0.49	µg/L	JAX47-MW13S	8/34	0.002 - 0.003	0.49	NA	NA	No	NTX
309-00-2	Aldrin	0.01 J	3.8 J	µg/L	JAX47-937-MW05S	7/34	0.002 - 0.002	3.8	NA	0.071	Yes	ASL
319-84-6	alpha-BHC	0.003 J	9.3	µg/L	JAX47-MW11S	9/34	0.001 - 0.002	9.3	NA	3.1 C	Yes	ASL
5103-71-9	alpha-Chlordane	0.002 J	1.8	µg/L	JAX47-MW17S	12/34	0.001 - 0.001	1.8	NA	12 C[8]	No	BSL
319-85-7	beta-BHC	0.003 J	3.9 J	µg/L	JAX47-937-MW04S	12/34	0.002 - 0.002	3.9	NA	NA	No	NTX
319-86-8	delta-BHC	0.002 J	8.3	µg/L	JAX47-MW11S	15/34	0.001 - 0.062	8.3	NA	NA	No	NTX
60-57-1	Dieldrin	0.003 J	0.32 J	µg/L	JAX47-937-MW03S	14/34	0.0008 - 0.0008	0.32	NA	0.86 C	No	BSL
959-98-8	Endosulfan I	0.011 J	0.077	µg/L	JAX47-MW17S	3/34	0.002 - 0.002	0.077	NA	NA	No	NTX
33213-65-9	Endosulfan II	0.003 J	0.039 J	µg/L	JAX47-MW30S	8/34	0.002 - 0.002	0.039	NA	NA	No	NTX
1031-07-8	Endosulfan Sulfate	0.005 J	0.21 J	µg/L	JAX47-937-MW05S	10/34	0.002 - 0.002	0.21	NA	NA	No	NTX
72-20-8	Endrin	0.002 J	0.044 J	µg/L	JAX47-937-MW05S	6/34	0.002 - 0.003	0.044	NA	NA	No	NTX
7421-93-4	Endrin Aldehyde	0.011 J	0.021 J	µg/L	JAX47-MW13S	1/34	0.009 - 0.009	0.021	NA	NA	No	NTX
53494-70-5	Endrin Ketone	0.004 J	4.7 J	µg/L	JAX47-937-MW02S	11/34	0.003 - 0.003	4.7	NA	NA	No	NTX
58-89-9	gamma-BHC (Lindane)	0.002 J	15	µg/L	JAX47-MW11S	10/34	0.002 - 0.002	15	NA	11 C	Yes	ASL
5103-74-2	gamma-Chlordane	0.016 J	1.1	µg/L	JAX47-MW17S	9/34	0.001 - 0.001	1.1	NA	12 C[8]	No	BSL
76-44-8	Heptachlor	0.001 J	0.22	µg/L	JAX47-MW17D	11/34	0.001 - 0.001	0.22	NA	0.4 MCL	No	BSL
1024-57-3	Heptachlor Epoxide	0.004 J	0.62 J	µg/L	JAX47-MW14S	7/34	0.001 - 0.001	0.62	NA	NA	No	NTX
72-43-5	Methoxychlor	0.011 J	1.1 J	µg/L	JAX47-MW11S, JAX47-937-MW05S	6/34	0.003 - 0.003	1.1	NA	NA	No	NTX

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils. November 2002. EPA530-F-02-052. Values are from Table 2c and correspond to a target cancer risk level of 1E-6 or HI =1.
7 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level.
8 - Value is for chlordane.

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Consic
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
N = Non-carcinogen
NA = Not Applicable/Not Available

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BSL = Below COPC Screening Level/ARAR/TBC
NTX = No toxicity criteria available

Table 7-9
Chemicals Retained as COPCs

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	Surface Soil			Subsurface Soil			Groundwater	
	Direct Contact	Soil to Air	Soil to Groundwater	Direct Contact	Soil to Air	Soil to Groundwater	Direct Contact	Vapor Intrusion
Volatile Organic Compounds								
1,2,4-Trichlorobenzene							X	
1,2-Dibromo-3-Chloropropane							X	
1,4-Dichlorobenzene							X	
Benzene							X	X
Bromoform								X
Chlorobenzene							X	
Chloroform							X	
cis-1,2-Dichloroethene							X	X
Ethylbenzene							X	
Isopropylbenzene							X	X
Tetrachloroethene							X	
Total Xylenes							X	
trans-1,2-Dichloroethene							X	
Trichloroethene							X	X
Vinyl Chloride							X	X
Semivolatile Organic Compounds								
1,1-Biphenyl							X	
2,4,5-Trichlorophenol							X	
2,4-Dichlorophenol							X	
2-Methylnaphthalene							X	
Benzo(a)pyrene	X			X				
Dibenzo(a,h)anthracene	X							
Naphthalene							X	X
Pentachlorophenol							X	
Pesticides/PCBs								
4,4'-DDD	X		X	X		X	X	
4,4'-DDE	X		X	X		X	X	
4,4'-DDT	X	X	X	X		X	X	
Aldrin							X	X
Alpha-BHC			X	X	X	X	X	X
Alpha-Chlordane	X		X	X		X	X	
Beta-BHC			X	X		X	X	
Delta-BHC				X		X	X	
Dieldrin	X	X	X	X	X	X	X	
Endrin			X					
Endrin Ketone							X	
Gamma-BHC			X	X		X	X	X
Gamma-Chlordane	X		X	X		X	X	
Heptachlor	X			X			X	
Heptachlor Epoxide	X		X	X			X	
Inorganics								
Arsenic	X		X	X		X	X	

Notes
X - Indicates chemical was retained as a COPC.

7.2.1 Conceptual Site Model

The CSM for PSC 47 is presented in this section. A CSM facilitates consistent and comprehensive evaluation of the potential risks to human health by creating a framework for identifying the pathways by which human receptors may come in contact with contaminated media originating from the source area. A CSM depicts the relationships between the following elements, which are necessary for defining complete exposure pathways:

- Site sources of contamination
- COPCs in environmental media
- Contaminant release mechanisms
- Contaminant transport pathways
- Exposure mechanisms and exposure routes
- Potential receptors

Physical site characteristics, results of previous site investigations, hazard identification (detected chemicals of interest based on the previous investigations), and current and future land use scenarios also were considered during the development of the site-specific CSM. Details on previous investigations and hazard identification were presented in Section 2.1. Details on the site background and physical setting were also presented in Section 2.0. The CSM for PSC 47 is provided in Figure 7-2. The potential sources of contamination at PSC 47 were releases to surface soil and groundwater from past operations. Contaminants may be released from the site by mechanisms such as storm water runoff and subsequent erosion of surface soil, leaching of COPCs from soil via infiltrating water to subsurface soil and subsequent migration through the subsurface soil to the water table, wind erosion of surface soil (fugitive dust), and the volatilization of chemicals from soil (volatile emissions).

Storms generate runoff, which is directed toward the surrounding surface water. Initially, this water may move across the site as sheet flow, which can entrain loose soil material. This soil is moved from the site as a sediment, and will be deposited where the flow velocity diminishes below that needed to carry a particular grain size.

Soluble chemicals may also migrate downward through the soil column via infiltrating precipitation. The migration of these chemicals may be somewhat impeded by the chemical's tendency to bind to soil organic material. However, these soluble chemicals may eventually reach the water table. Once in the groundwater, these chemicals continue to migrate via dispersion and advection.

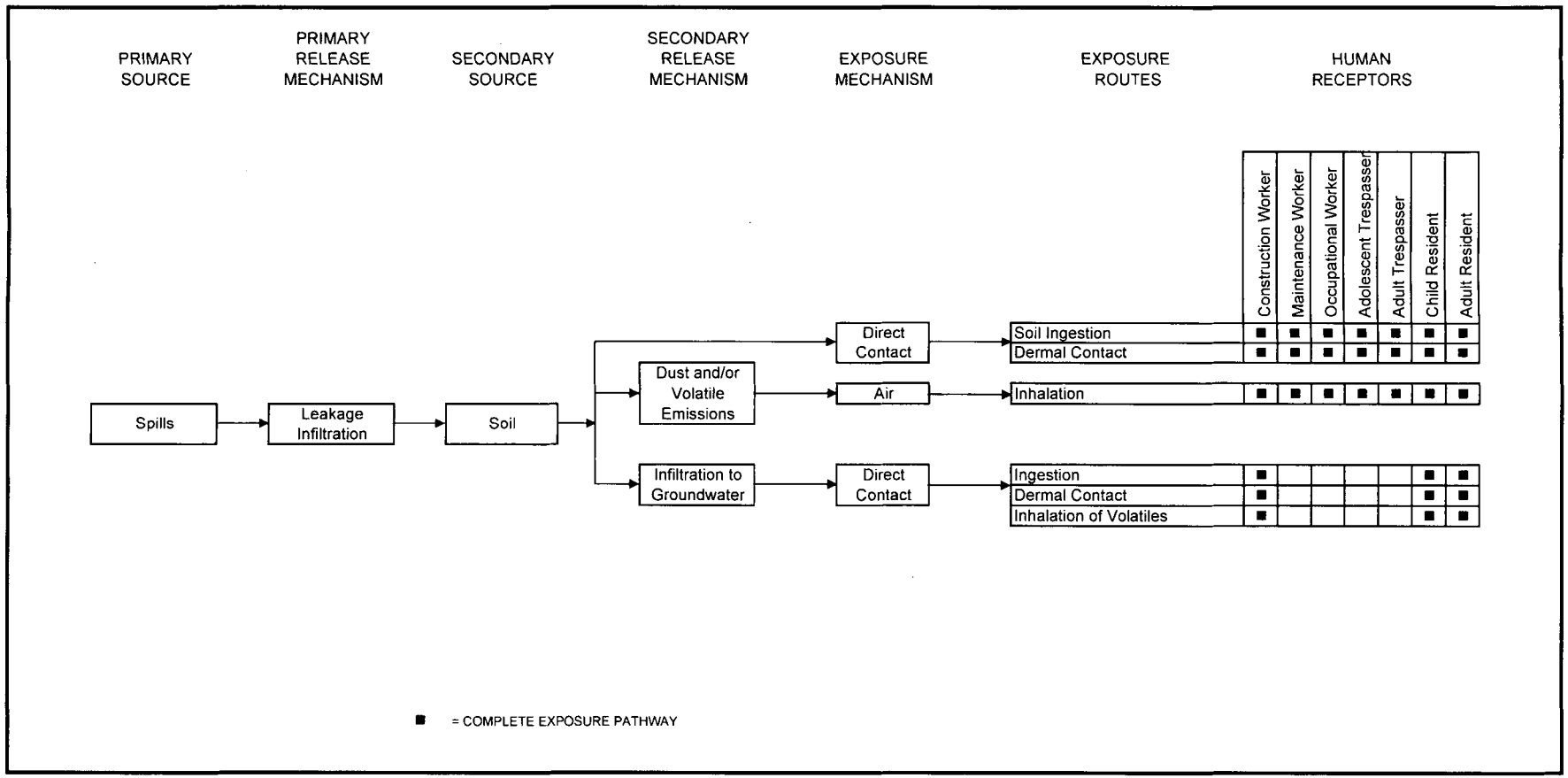


FIGURE 7-2

CONCEPTUAL SITE MODEL
POTENTIAL SOURCE OF CONTAMINATION 47
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Chemicals adsorbed to surface soil may also be released from a site via wind erosion of loose soil material. These particulates are carried downwind and potentially off site if the grain size is small enough and the wind velocity is great enough. Additionally, chemicals may also be released from soil via volatilization.

Once released from the source, contaminants are transported in media such as soil, groundwater, surface water, sediment, or air. Potential receptors may be exposed either directly or indirectly to contaminants in these media by a variety of exposure mechanisms, such as direct contact and immersion. Typically, several exposure routes (ingestion, dermal contact, inhalation, etc.) are associated with a particular exposure mechanism.

The CSM presented in Figure 7-2 also indicates those exposure routes that are carried through the quantitative risk assessment for each potential receptor. An objective of the development of the CSM, as well as the baseline HHRA, is to focus attention on those pathways that contribute the most to the potential impacts on human health and the environment and to provide the rationale for eliminating other exposure pathways that are considered to be minor components of the overall risk.

7.2.2 Potential Current and Future Receptors of Concern and Exposure Pathways

Potential receptors were identified for both current and future land use conditions. The receptors were identified by analyzing the interaction of current land use practices and the identified sources of contamination. Future site use is expected to remain the same as current. The identified receptors are as follows:

- **Future construction workers** who may contact contaminated media while excavating or performing construction activities. Construction workers could be exposed to surface and subsurface soils (incidental ingestion; dermal contact), shallow groundwater pooling at the bottom of an excavation pit (dermal contact), and air (inhalation).

- **Current/future maintenance workers (groundskeepers)** who may contact contaminated surface soil while performing assigned duties. The maintenance worker could be exposed to surface soil (incidental ingestion; dermal contact) and air (inhalation) during grounds keeping or maintenance activities.

- **Current/future occupational (commercial/industrial) workers** who may contact contaminated surface soil media while performing work tasks. This receptor could be exposed to surface soil (incidental ingestion; dermal contact) and air (inhalation). It is anticipated that this receptor would not

be routinely exposed to groundwater. Office workers may be minimally exposed to site-related contamination when compared to outdoor workers.

- **Current/future adult and adolescent trespassers** who may contact contaminated surface soil. Trespassers are not a likely receptor under current conditions since a fence surrounds PSC 47 and access to NAS Jacksonville is restricted. Trespassers may be exposed to potentially contaminated surface soil (incidental ingestion; dermal contact) and air (inhalation). Direct contact with groundwater or subsurface soils is not anticipated for this receptor.

- **Hypothetical future on-site residents** are evaluated as potential receptors. Future child and adult residents are not receptors under current or expected future land use and are included only to provide an indication of potential risks if the area was developed for residential use. Hypothetical future on-site residents may be exposed to contaminated surface soil and groundwater. In addition, future hypothetical residents could be exposed to subsurface soil that has been brought to the surface during construction activities. It is assumed that the hypothetical resident may be exposed to surface soils (incidental ingestion, dermal contact), groundwater (ingestion, dermal contact), and air (inhalation).

A summary of the rationale used for the selection or elimination of a potential receptor group is provided in Table 7-10. Recreational users are not considered to be a potential receptor group because the site is not currently used for recreational activities nor is it expected to be used for recreational activities in the future. If an individual did use the site for recreational activities, their exposures would be similar to those of the adolescent and adult trespassers.

7.2.3 Exposure Point Concentrations

According to USEPA guidance (1989, 2002b), risk assessments are conducted using a representative exposure point concentration (EPC) for each COPC. The EPC is typically defined as the 95 percent upper confidence limit (UCL), which is based on the distribution of a data set. However, when small data sets (i.e., less than 11 samples) are available for a site and/or medium, the UCL is not considered to be a good estimate of the sample mean and in those cases the maximum detected concentration is used as the EPC.

The EPCs for soil were calculated following USEPA's Calculating UCLs for Exposure Point Concentrations at Hazardous Waste Sites (USEPA, 2002b using TtNUS software based on the USEPA's ProUCL software and guidance (Singh et al., 2004). In general, the concentration selected for the EPC was the value recommended by the ProUCL guidance, subject to final review by the risk assessor or a

Table 7-10
Selection of Exposure Pathways

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/ Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current/Future	Surface Soil	Surface Soil	Surface Soil	Maintenance Workers	Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Site maintenance workers, such as groundskeepers, may periodically enter the site and contact contaminated soil in the course of their job duties.
		Air	Surface Soil	Maintenance Workers	Adult	Inhalation	On-Site	Quantative	No COPCs were identified in soil for the inhalation pathway, therefore this pathway is not evaluated.
		Surface Soil	Surface Soil	Trespassers	Adolescents and Adults	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Persons may trespass on the site and contact contaminated soil.
		Air	Surface Soil	Trespassers	Adolescents and Adults	Inhalation	On-Site	Quantative	Trespassers may be exposed to fugitive dust and volatile emissions.
Future	Surface Soil	Surface Soil	Surface Soil	Construction Workers	Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Construction workers may have contact with surface soil during excavation activities.
		Air	Surface Soil	Construction Workers	Adult	Inhalation	On-Site	Quantative	Construction workers may be exposed to fugitive dust and volatile emissions during construction activities.
		Surface Soil	Surface Soil	Occupational Workers	Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Occupational (commercial/industrial) workers, may contact contaminated soil in the course of their job duties.
		Air	Surface Soil	Occupational Workers	Adult	Inhalation	On-Site	Quantative	Occupational workers may be exposed to fugitive dust and volatile emissions.
	Surface Soil	Surface Soil	Surface Soil	Residents	Child	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to contaminated soil during typical residential activities, such as gardening or playing.
					Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to contaminated soil during typical residential activities, such as gardening or playing.
		Air	Surface Soil	Residents	Child	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to fugitive dust and volatile emissions.
					Adult	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to fugitive dust and volatile emissions.
	SubSurface Soil	SubSurface Soil	SubSurface Soil	Construction Workers	Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Construction workers may have contact with subsurface soil during excavation activities.
			SubSurface Soil	Residents	Child	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to contaminated subsurface soil that was brought to the surface.
					Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to contaminated subsurface soil that was brought to the surface.
		Air	SubSurface Soil	Construction Workers	Adult	Inhalation	On-Site	Quantative	Construction workers may be exposed to fugitive dust and volatile emissions during construction activities.
			SubSurface Soil	Residents	Child	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to fugitive dust and volatile emissions.
					Adult	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to fugitive dust and volatile emissions.
	Groundwater	Groundwater	Groundwater	Construction Workers	Adult	Ingestion Dermal	On-Site On-Site	None Quantative	Groundwater is not used as a potable water supply at the site. Construction workers may contact groundwater during excavation activities.
			Tap Water	Residents	Child	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to COPCs in groundwater if groundwater was used as a potable water source.
					Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to COPCs in groundwater if groundwater was used as a potable water source.

Table 7-10
Selection of Exposure Pathways

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/ Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Future	Groundwater	Air	Groundwater	Construction Workers	Adult	Inhalation	On-Site	Quantative	Construction workers may contact groundwater during excavation activities.
			Tap Water	Residents	Child	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to COPCs in groundwater if groundwater was used as a potable water source.
					Adult	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to COPCs in groundwater if groundwater was used as a potable water source.
			Indoor Air	Residents	Child	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to COPCs that have volatilized from groundwater and migrated through building foundations into indoor air.
					Adult	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to COPCs that have volatilized from groundwater and migrated through building foundations into indoor air.

statistician. The distribution-based UCL and the rationale for selecting the EPC are described on the RAGS Part D Table 3s' presented in Appendix K.

The average concentration in groundwater was used as the EPC for evaluating exposures to groundwater.

USEPA Region IV has adopted a Toxicity Equivalence Factor (TEF) approach to evaluate potentially carcinogenic PAHs. These TEFs are based on the relative potency of each compound relative to that of benzo(a)pyrene. TEFs for the individual carcinogenic PAHs are as follows:

Compound	TEF
Benzo(a)pyrene	1.0
Benzo(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.001
Dibenzo(a,h)anthracene	1.0
Indeno(1,2,3-cd)pyrene	0.1

The TEFs are used to convert each individual carcinogenic PAH concentration into an equivalent concentration of benzo(a)pyrene. Using individual benzo(a)pyrene equivalent concentrations, an EPC for carcinogenic PAHs is derived. If all the carcinogenic PAHs were not detected in a sample then one half the sample quantitation limit for benzo(a)pyrene was used as the equivalent concentration for that sample.

EPCs for COPCs for exposed surface soil, all surface soil, surface/subsurface soil, and groundwater are summarized in Table 7-11. The EPCs are also presented in the Risk Assessment Guidance for Superfund (RAGS) Part D tables included in Appendix K.

7.2.4 Quantification of Exposure

Estimates of exposure are based on the contaminant concentrations at the exposure points and on scenario-specific assumptions and intake parameters. The models and equations used to quantify intakes are described in this section and have been obtained from a variety of USEPA guidance documents, which are cited in the specific intake estimation sections that follow.

Exposure model parameters for all receptors are presented in Table 7-12. The parameters are used in the equations presented in this section, along with the EPCs previously defined to estimate contaminant

Table 7-11
Exposure Point Concentrations

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	All Surface Soil (ug/kg)	Surface/ Subsurface Soil (ug/kg)	Groundwater (ug/L)
Volatile Organic Compounds			
1,2,4-Trichlorobenzene	NA	NA	3.83 (6)
1,2-Dibromo-3-Chloropropane	NA	NA	2.70 (6)
1,4-Dichlorobenzene	NA	NA	3.58 (6)
Benzene	NA	NA	2.95 (6)
Chlorobenzene	NA	NA	2.43 (6)
Chloroform	NA	NA	0.37 (6)
cis-1,2-Dichloroethene	NA	NA	181 (6)
Ethylbenzene	NA	NA	25.9 (6)
Isopropylbenzene	NA	NA	2.78 (6)
Tetrachloroethene	NA	NA	2.60 (6)
Total Xylenes	NA	NA	139 (6)
trans-1,2-Dichloroethene	NA	NA	2.33 (6)
Trichloroethene	NA	NA	2.75 (6)
Vinyl Chloride	NA	NA	2.58 (6)
Semivolatile Organic Compounds			
1,1'- Biphenyl	NA	NA	6.50 (6)
2,4,5-Trichlorophenol	NA	NA	1412 (6)
2,4-Dichlorophenol	NA	NA	207 (6)
2-Methylnaphthalene	NA	NA	46.0 (6)
Benzo(a)pyrene Equivalents	0.644 (1)	0.644 (1)	NA
Naphthalene	NA	NA	64.8 (6)
Pesticides/PCBs			
4,4'-DDD	2.49 (2)	18.9 (2)	4.74 (6)
4,4'-DDE	4.12 (3)	8.48 (3)	0.038 (6)
4,4'-DDT	116 (4)	163 (2)	0.061 (6)
Aldrin	NA	NA	1.8 (6)
Alpha-BHC	NA	0.241 (2)	1.94 (6)
Alpha-Chlordane	4.73 (3)	4.0 (2)	0.300 (6)
Beta-BHC	NA	0.226 (5)	0.780 (6)
Delta-BHC	NA	1.92 (2)	1.37 (6)
Dieldrin	0.592 (2)	0.838 (2)	0.061 (6)
Endrin Ketone	NA	NA	0.563 (6)
Gamma-BHC	NA	0.308 (2)	2.46 (6)
Gamma-Chlordane	3.57 (2)	3.83 (2)	0.176 (6)
Heptachlor	0.433 (2)	0.204 (2)	0.032 (6)
Heptachlor Epoxide	0.223 (5)	0.154 (5)	0.123 (6)
Inorganics			
Arsenic	7.77 (5)	12.1(5)	1259 (6)

Notes
RAGS Part D Tables for the exposure point concentrations are included in Appendix L.
NA - Not applicable - Chemical is not a COPC for this media.
1 - There were less than 10 samples therefore the maximum detected concentration was used for the exposure point concentration.
2 - 99% Chebyshev(Mean, Std) UCL
3 - H-UCL
4 - 95% Chebyshev(Mean, Std) UCL
5 - 97.5% Chebyshev(Mean, Std) UCL
6 - Mean concentration is used as the exposure point concentration for groundwater in accordance with USEPA Region IV guidance.

Table 7-12
Summary of Exposure Input Parameters

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 2

Exposure Input Parameter	Construction Worker	Site Maintenance Worker	Occupational Worker	Adolescent Trespasser	Adult Trespasser	Child Resident	Adult Resident
All Exposures							
Exposure Concentration - C_{soil}(mg/kg) C_{gw} (ug/L)	Maximum or 95% UCL	Maximum or 95% UCL	Maximum or 95% UCL	Maximum or 95% UCL	Maximum or 95% UCL	Maximum or 95% UCL	Maximum or 95% UCL
Exposure Duration (ED) (years)	1[1]	25[2]	25[2]	10[1]	20[1]	6[2]	24[2]
Body Weight (BW) (kg)	70[3]	70[3]	70[3]	45[4]	70[3]	15[3]	70[3]
Non-carcinogenic Averaging Time (AT_n) (days)	365[3]	9,125[3]	9,125[3]	3,650[3]	7,300[3]	2,190[3]	8,760[3]
Carcinogenic Averaging Time (AT_c) (days)	25,550[3]	25,550[3]	25,550[3]	25,550[3]	25,550[3]	25,550[3]	25,550[3]
Incidental Ingestion/Dermal Contact with Soil							
Ingestion Rate (IR) (mg/day)	330[5]	50[2]	50[2]	100[2]	100[2]	200[2]	100[2]
EF (days/year)	90[1]	30[1]	250[2]	100[1]	45[1]	350[2]	350[2]
Fraction Ingested from Contaminated Source (Fi) (unitless)	1.0[2]	1.0[2]	1.0[2]	1.0[2]	1.0[2]	1.0[2]	1.0[2]
Skin Surface Area (SA) (cm^2/day)	3,300[5,6]	3,300[6]	3,300[6]	3,280[4]	5,700[6]	2,800[6]	5,700[6]
Soil-to-Skin Adherence Factor (AF) (mg/cm^2)	0.3[5,6]	0.2[6]	0.2[6]	0.2[6]	0.07[6]	0.2[6]	0.07[6]
Absorption Factor (ABS) (unitless)	chemical-specific[6]	chemical-specific[6]	chemical-specific[6]	chemical-specific[6]	chemical-specific[6]	chemical-specific[6]	chemical-specific[6]
Conversion Factor (CF) (kg/mg)	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06
Inhalation Fugitive Dust/Volatile Emissions from Surface Soil							
C_{air} (mg/m^3)	calculated[7]	calculated[7]	calculated[7]	calculated[7]	calculated[7]	calculated[7]	calculated[7]
InhR (m^3/hour)	2.5[8]	2.5[8]	2.5[8]	1.2[4]	1.6[4]	0.34[8]	0.55[8]
ET (hours/day)	8[2]	8[2]	8[2]	4[1]	4[1]	24[2]	24[2]
PEF (m^3/kg)	1.49E+06[5]	1.24E+09[8]	1.24E+09[8]	1.24E+09[8]	1.24E+09[8]	1.24E+09[8]	1.24E+09[8]
Ingestion/Dermal Contact with Groundwater							
Ingestion Rate (IR_{gw})(L/day)	NA	NA	NA	NA	NA	1.5[4]	2[2]
EF (days/year)	30[1]	NA	NA	NA	NA	350[2]	350[2]
Exposure Time (ET) (hours/day) and t_{event} (hours/event)	1.0[1]	NA	NA	NA	NA	0.33[6]	0.25[6]
Skin Surface Area (SA) (cm^2/day)	3,300[5,6]	NA	NA	NA	NA	6,600[6]	18,000[6]
Event Frequency (EV) (events/day)	1[1]	NA	NA	NA	NA	1[6]	1[6]
Permeability Coefficient from Water through Skin (K_p)(cm/hour)	chemical-specific[6]	NA	NA	NA	NA	chemical-specific[6]	chemical-specific[6]
Bunge Dermal Model variables - t* (hour/event), T (hour), and B (unitless)	chemical-specific[6]	NA	NA	NA	NA	chemical-specific[6]	chemical-specific[6]

Table 7-12
Summary of Exposure Input Parameters

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 2

Exposure Input Parameter	Construction Worker	Site Maintenance Worker	Occupational Worker	Adolescent Trespasser	Adult Trespasser	Child Resident	Adult Resident
Conversion Factor (CF) (L/cm^3)	1.0E-03	NA	NA	NA	NA	1.0E-03	1.0E-03

Notes:

A = Skin surface area available for contact
ABS = Absorption factor
AF = Soil-to-skin adherence factor
AT_c = Averaging time for carcinogenic effects
AT_n = Averaging time for noncarcinogenic effects
B = Bunge Model partitioning coefficient
BW = Body weight
CF = Conversion factor
CR = Contact rate
C_{air} = Exposure concentration for air
C_{soil} = Exposure concentration for soil/sediment
C_{gw} = Exposure concentration for groundwater
ED = Exposure duration
EF = Exposure frequency
ET = Exposure time
EV = Event frequency
FI = Fraction ingested from contaminated source
InhR = Inhalation rate
IR = Ingestion rate (soil or groundwater)
K_p = Permeability coefficient from water through skin
L/cm^3 = Liters per cubic centimeters
L/day = Liters per day
mg/cm^2 = Milligrams per centimeter squared
PEF = Particulate Emission Factor
SA = Skin surface area available for contact
τ = Lag time
t* = Time it takes to reach steady-state conditions
t_{event} = Duration of event

1 - Assumption, based on professional judgement
2 - USEPA 1991. *Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Parameters*
3 - USEPA 1989. *Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Interim Final)* EPA/540/1-89/002
4 - USEPA 1997. *Exposure Factors Handbook* EPA/600/p-95/002 Fa
5 - USEPA, 2002: *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites*. OSWER 9355.4-24.
6 - USEPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment Final Guidance) EPA/540/R/99/005.
7 - USEPA, 1996: Soil Screening Guidance: Technical Background Document.
8 - FDEP, 2005: Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.

intakes, which will be used to determine potential risks. Individual chemical intakes for each receptor/exposure route combination are presented in Appendix K.

7.2.4.1 Incidental Ingestion of Soil

The incidental ingestion of a small amount of soil is assumed to occur when a receptor comes into direct contact with contaminated soil. Exposure associated with the oral route of exposure is estimated in the following manner (USEPA, 1989):

$$Intake_{si} = \frac{(C_{si})(IR_s)(FI)(EF)(ED)(CF)}{(BW)(AT)}$$

where:
- $Intake_i$ = intake of contaminant "i" from soil (mg/kg/day)
- C_{si} = concentration of contaminant "i" in soil (mg/kg)
- IR_s = incidental ingestion rate for soil (mg/day)
- FI = fraction ingested from contaminated source (decimal fraction)
- EF = exposure frequency (days/year)
- ED = exposure duration (years)
- CF = conversion factor (10^{-6} kg/mg)
- BW = body weight (kg)
- AT = averaging time (days);
  for non-carcinogens, AT = ED x 365 days/year;
  for carcinogens, AT = 70 years x 365 days/year

Since PSC 47 is relatively small in size, it was assumed that a construction worker would be engaged in construction related activities 90 days/year (EF_{Soil}) over a 1 year period (ED). Maintenance workers are assumed to be exposed 30 days a year over 25 years. Adolescent trespassers are assumed to be exposed 100 days a year over 10 years. Adult trespassers are assumed to be exposed 45 days a year over 20 years. All other exposure parameters for incidental ingestion of soil are standard USEPA default values.

7.2.4.2 Dermal Contact with Soil

During direct contact, contaminated soil may adhere to the skin of potential receptors. Dermal absorption of COPCs from potentially contaminated soil and sediment is calculated using the following equation:

$$Intake_{si} = \frac{(C_{si})(SA)(AF)(ABS)(CF)(EF)(ED)}{(BW)(AT)}$$

where: $Intake_{si}$ = amount of chemical "i" absorbed during contact with soil or sediment (mg/kg/day)

C_{si} = concentration of chemical "i" in soil or sediment (mg/kg)

SA = skin surface area available for contact (cm^2/day)

AF = skin adherence factor (mg/cm^2)

ABS = absorption factor (decimal fraction)

CF = conversion factor (10^{-6} kg/mg)

EF = exposure frequency (days/year)

ED = exposure duration (years)

BW = body weight (kg)

AT = averaging time (days);
for non-carcinogens, AT = ED x 365 days/year;
for carcinogens, AT = 70 years x 365 days/year

The same exposure frequencies and durations used in the estimation of incidental ingestion intakes of soil/sediment are used to estimate exposure via dermal contact. Current guidance (USEPA, 2004a) is used to develop the following default assumptions concerning the amount of skin surface area available for contact for a receptor:

- For the construction worker, maintenance worker, and occupational worker, the surface area assumed to be available for soil contact [3,300 centimeters squared (cm^2)] is the average of the 50th percentile skin surface area value for the head, hands, and forearms (USEPA, 2004a).

- For the adolescent trespasser, the surface area assumed to be available for soil contact (3,820 cm^2) which assumes that 25 percent of the total body surface is available for exposure.

- For hypothetical future on-site child resident, the surface area assumed to be available for soil contact (2,800 cm^2) is the average of the 50th percentile skin surface area value for the head, hands, forearms, lower legs, and feet (USEPA, 2004a).

- For the adult trespasser and hypothetical future on-site adult resident, the surface area assumed to be available for soil contact (5,700 cm^2) is the average of the 50th percentile skin surface area value for the head, hands, forearms, and lower legs (USEPA, 2004a).

Current USEPA Guidance (USEPA, 2004a) was used to determine soil adherence factors and chemical-specific absorption factors. The soil adherence factors were 0.3 mg/cm^2 for construction

workers; 0.2 mg/cm^2 for maintenance workers, occupational workers, adolescent trespassers, and child residents; and 0.07 mg/cm^2 for adult trespassers and adult residents.

For the constituents identified as COPCs in soil, the following absorption factors were used (USEPA, 2004a, unless otherwise noted):

- DDD, DDE, and DDT – 0.03
- Chlordane – 0.04
- Arsenic – 0.03
- Semivolatile Organics – 0.1
- Other Inorganics and Volatile Organics – not evaluated for dermal contact with soil (USEPA, 2004a)

7.2.4.3 Inhalation of Air and Fugitive Dust/Volatile Emissions from Soil

The amount of a chemical that a receptor takes in as a result of respiration was determined using the concentration of the contaminant in air. Intakes of both particulates and vapors and gases from soil were calculated using the same equation, as follows (USEPA, 1989):

$$\text{Intake}_{ai} = \frac{(C_{ai})(IR_a)(ET)(EF)(ED)}{(BW)(AT)}$$

where:

Intake_{ai}	=	intake of chemical "i" from air via inhalation (mg/kg/day)
C_{ai}	=	concentration of chemical "i" in air (mg/m^3)
IR_a	=	inhalation rate (m^3/hour)
ET	=	exposure time (hours/day)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (year)
BW	=	body weight (kg)
AT	=	averaging time (days); for noncarcinogens, AT = ED x 365 days/year; for carcinogens, AT = 70 years x 365 days/year

The concentrations of chemicals in air resulting from emissions from soil were developed following procedures presented in USEPA Soil Screening Guidance (USEPA, 1996). No volatiles were retained as COPCs in soil therefore the chemical concentration in air was calculated as follows:

$$C_a = C_s \times \left[\frac{1}{PEF}\right]$$

where:

C_a = chemical concentration in air, mg/m^3

C_s = chemical concentration in soil, mg/kg

PEF = particulate emission factor, m^3/kg

The PEF relates the concentration of the chemical in soil with the concentration of dust particles in air. A PEF value of $1.24 \times 10^{+9}$ was used for PSC 47 (FDEP, 2005). Because air emissions resulting from fugitive dust emissions settings will be different than dust emissions generated during construction activities, a separate PEF was used for construction activities. The PEF for construction workers ($1.49 \times 10^{+6}$ m^3/kg) was calculated using the equations presented in the supplemental SSL guidance document (USEPA, 2002c).

7.2.4.4 Ingestion of Groundwater

Ingestion of groundwater was evaluated for the hypothetical future resident only. Intakes associated with ingestion of groundwater were evaluated using the following equations (USEPA, 1989):

$$Intake_{wi} = \frac{(C_{wi})(IR_w)(EF)(ED)}{(BW)(AT)}$$

where: $Intake_{wi}$ = intake of chemical "i" from water (mg/kg/day)

C_{wi} = concentration of chemical "i" in water (mg/L)

IR_w = ingestion rate for groundwater (L/day)

EF = exposure frequency (days/year)

ED = exposure duration (years)

BW = body weight (kg)

AT = averaging time (days)
for non-carcinogens, AT = ED x 365 days/year
for carcinogens, AT = 70 years x 365 days/year

USEPA default exposure assumptions are used to evaluate exposure to groundwater by hypothetical future child and adult residents.

7.2.4.5 Dermal Contact with Groundwater

The following equation is used to assess exposures resulting from dermal contact with water (USEPA, 2004a):

$$DAD_{wi} = \frac{(DA_{event})(EV)(ED)(EF)(A)}{(BW)(AT)}$$

where:
- DAD_{wi} = dermally absorbed dose of chemical "i" from water (mg/kg/day)
- DA_{event} = absorbed dose per event (mg/cm^2-event)
- EV = event frequency (events/day)
- ED = exposure duration (years)
- EF = exposure frequency (days/year)
- A = skin surface area available for contact (cm^2)
- BW = body weight (kg)
- AT = averaging time (days)
  - for non-carcinogens, AT = ED x 365 days/year
  - for carcinogens, AT = 70 years x 365 days/year

Total body exposure (e.g. showering) is assumed for residents dermally exposed to COPCs in groundwater. For dermal exposure to groundwater by construction workers, the surface area assumed to be available for contact is 3,300 cm^2, which is average of the 50th percentile skin surface area value for the head, hands, and forearms (USEPA, 2004a). It was assumed that a construction worker was exposed to groundwater one hour a day. USEPA default values were used for child and adult residents. The total body surface area was assumed to be available for contact to groundwater by a child (6,600 cm^2) and adult resident (18,000 cm^2). Exposure frequencies and durations for dermal contact with groundwater are assumed to be the same as those for ingestion of groundwater.

The absorbed dose per event (DA_{event}) is estimated using a nonsteady-state approach for organic compounds and a traditional steady-state approach for inorganics. For organics, the following equations apply:

$$\text{If } t_{event} < t^*, \text{ then : } DA_{event} = (2K_p)(FA)(C_{wi})(CF)\left(\sqrt{\frac{6\,\tau\, t_{event}}{\pi}}\right)$$

$$\text{If } t_{event} > t^*, \text{ then : } DA_{event} = (K_p)(FA)(C_{w_i})(CF)\left(\frac{t_{event}}{1+B} + 2\,\tau\left(\frac{1+3B+3B^2}{(1+B)^2}\right)\right)$$

where:
- DA_{event} = absorbed dose per event
- FA = fraction absorbed (dimensionless) – chemical specific
- t_{event} = duration of event (hour/event)
- t^* = time it takes to reach steady-state conditions (hours)

K_p	=	permeability coefficient from water through skin (cm/hour)
C_{wi}	=	concentration of chemical "i" in water (mg/L)
τ	=	lag time (hours)
π	=	constant (dimensionless; equal to 3.1416)
CF	=	conversion factor (0.001 L/cm^3)
B	=	partitioning constant derived by Bunge Model (dimensionless)

Values for the chemical-specific parameters (t_{event}, t^*, K_p, τ, and B) are obtained from the current dermal guidance (USEPA, 2004a) and are presented in Table 7-13. If no published values were available for a particular compound, they were calculated using equations provided in the USEPA dermal guidance.

The following steady-state equation is used to estimate DA_{event} for inorganics:

$$DA_{event} = (K_p)(C_{wi})(t_{event})$$

The dermal permeability (K_p) values recommended in the USEPA dermal guidance (USEPA, 2004a) were used to calculate DA_{event} for inorganic COPCs.

7.2.4.6 Inhalation of Volatiles in Groundwater by Hypothetical Residents

Groundwater exposure may also result in inhalation of volatiles, typically for adult residential receptors who may be exposed while showering, bathing, washing dishes, etc. Future adult residents exposed through inhalation while showering will be evaluated following USEPA Region IV guidance (USEPA, 2000a). USEPA Region IV Human Health Risk Assessment Guidance stipulates that the risk associated with inhalation of volatile COPCs while showering is equivalent to risk from exposure via ingestion of two liters of contaminated water per day. In order to calculate total risk from groundwater in accordance with USEPA Region IV guidance, the estimated risk calculated for ingestion of volatile organic COPCs in groundwater is doubled to factor in the risk from inhalation of volatile organic COPCs in groundwater.

7.2.4.7 Inhalation of Volatiles in Groundwater by Construction Workers

Construction workers may be exposed to COPCs that have volatilized from groundwater when excavation exposes the shallow water table. Exposures for construction workers associated with the inhalation route are estimated in the following manner (USEPA, 1989):

$$Intake_{ai} = \frac{(C_{ai})(IR_a)(ET)(EF)(ED)}{(BW)(AT)}$$

Table 7-13
Parameters for Evaluation of Dermal Contact with Soil/Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 2

Chemical of Potential Concern	Media	Dermal Absorption Fraction (soil)	FA	Kp		T(event)		Tau		T*		B
			Value	Value	Units	Value	Units	Value	Units	Value	Units	Value
Volatile Organic Compounds												
1,2,4-Trichlorobenzene	Groundwater	NA	1	6.6E-02	cm/hr	(1)	hr	1.1E+00	hr	2.7E+00	hr	3.4E-01
1,2-Dibromo-3-Chloropropane	Groundwater	NA	1	6.8E-03	cm/hr	(1)	hr	2.2E+00	hr	5.3E+00	hr	4.0E-02
1,4-Dichlorobenzene	Groundwater	NA	1	4.2E-02	cm/hr	(1)	hr	7.1E-01	hr	1.7E+00	hr	2.0E-01
Benzene	Groundwater	NA	1	1.5E-02	cm/hr	(1)	hr	2.9E-01	hr	7.0E-01	hr	5.1E-02
Chlorobenzene	Groundwater	NA	1	2.8E-02	cm/hr	(1)	hr	4.6E-01	hr	1.1E+00	hr	1.2E-01
Chloroform	Groundwater	NA	1	6.8E-03	cm/hr	(1)	hr	5.0E-01	hr	1.2E+00	hr	2.9E-02
cis-1,2-Dichloroethene	Groundwater	NA	1	1.1E-02	cm/hr	(1)	hr	3.7E-01	hr	8.8E-01	hr	4.1E-02
Ethylbenzene	Groundwater	NA	1	4.9E-02	cm/hr	(1)	hr	4.2E-01	hr	1.0E+00	hr	2.0E-01
Isopropylbenzene	Groundwater	NA	1	8.8E-02	cm/hr	(1)	hr	4.9E-01	hr	1.2E+00	hr	3.7E-01
Tetrachloroethene	Groundwater	NA	1	3.3E-02	cm/hr	(1)	hr	9.1E-01	hr	2.2E+00	hr	1.7E-01
Total Xylenes	Groundwater	NA	1	4.6E-02	cm/hr	(1)	hr	4.1E-01	hr	9.9E-01	hr	1.8E-01
trans-1,2-Dichloroethene	Groundwater	NA	1	7.7E-03	cm/hr	(1)	hr	3.7E-01	hr	8.9E-01	hr	2.9E-02
Trichloroethene	Groundwater	NA	1	1.2E-02	cm/hr	(1)	hr	5.8E-01	hr	1.4E+00	hr	5.1E-02
Vinyl Chloride	Groundwater	NA	1	5.6E-03	cm/hr	(1)	hr	2.4E-01	hr	5.7E-01	hr	1.7E-02
Semivolatile Organic Compounds												
1,1'- Biphenyl	Groundwater	NA	1	9.2E-02	cm/hr	(1)	hr	7.7E-01	hr	1.8E+00	hr	4.4E-01
2,4,5-Trichlorophenol	Groundwater	NA	1	3.5E-02	cm/hr	(1)	hr	1.3E+00	hr	3.2E+00	hr	1.9E-01
2,4-Dichlorophenol	Groundwater	NA	1	2.1E-02	cm/hr	(1)	hr	8.7E-01	hr	2.1E+00	hr	1.0E-01
2-Methylnaphthalene	Groundwater	NA	1	8.9E-02	cm/hr	(1)	hr	6.6E-01	hr	1.6E+00	hr	4.1E-01
Benzo(a)pyrene Equivalents	Soil	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	Groundwater	NA	1	4.7E-02	cm/hr	(1)	hr	5.6E-01	hr	1.3E+00	hr	2.0E-01
Pentachlorophenol	Groundwater	NA	0.9	3.9E-01	cm/hr	(1)	hr	3.3E+00	hr	1.4E+01	hr	2.5E+00
Pesticides/PCBs												
4,4'-DDD	Groundwater/Soil	0.03	0.8	1.8E-01	cm/hr	(1)	hr	6.6E+00	hr	2.6E+01	hr	1.2E+00
4,4'-DDE	Groundwater/Soil	0.03	0.8	1.6E-01	cm/hr	(1)	hr	6.5E+00	hr	2.5E+01	hr	1.1E+00
4,4'-DDT	Groundwater/Soil	0.03	0.7	2.7E-01	cm/hr	(1)	hr	1.0E+01	hr	4.3E+01	hr	1.9E+00
Aldrin	Groundwater	NA	1	1.4E-03	cm/hr	(1)	hr	1.2E+01	hr	2.9E+01	hr	1.0E-02
alpha-BHC	Groundwater/Soil	0.1	1	2.0E-02	cm/hr	(1)	hr	4.5E+00	hr	1.1E+01	hr	1.3E-01
alpha-Chlordane	Groundwater/Soil	0.04	0.7	3.8E-02	cm/hr	(1)	hr	2.1E+01	hr	5.1E+01	hr	2.9E-01
beta-BHC	Groundwater/Soil	0.1	1	2.0E-02	cm/hr	(1)	hr	4.5E+00	hr	1.1E+01	hr	1.3E-01
delta-BHC	Groundwater/Soil	0.1	1	2.0E-02	cm/hr	(1)	hr	4.5E+00	hr	1.1E+01	hr	1.3E-01
Dieldrin	Groundwater/Soil	0.1	0.8	1.2E-02	cm/hr	(1)	hr	1.5E+01	hr	3.5E+01	hr	9.2E-02
Endrin Ketone	Groundwater	NA	0.8	2.3E-02	cm/hr	(1)	hr	1.4E+01	hr	3.4E+01	hr	1.7E-01
gamma-BHC (Lindane)	Groundwater/Soil	0.1	0.9	1.1E-02	cm/hr	(1)	hr	4.6E+00	hr	1.1E+01	hr	7.1E-02
gamma-Chlordane	Groundwater/Soil	0.04	0.7	3.8E-02	cm/hr	(1)	hr	2.1E+01	hr	5.1E+01	hr	2.9E-0
Heptachlor	Groundwater/Soil	0.1	0.8	8.6E-03	cm/hr	(1)	hr	1.3E+01	hr	3.2E+01	hr	6.4E-0
Heptachlor Epoxide	Groundwater/Soil	0.1	0.8	8.6E-03	cm/hr	(1)	hr	1.3E+01	hr	3.2E+01	hr	6.4E-0
Inorganics												
Arsenic	Groundwater/Soil	NA	NA	1.0E-03	cm/hr	(1)	hr	NA	NA	NA	NA	NA

Table 7-13
Parameters for Evaluation of Dermal Contact with Soil/Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 2

Notes:
All values from USEPA's Risk Assessment Guidance for Superfund Volume 1: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim, Septemb
1 - T(event) is 1 hr for the construction worker, 0.33 hr for the child resident, and 0.25 hr for the adult resident.

FA = Fraction Absorbed Water
Kp = Dermal Permeability Coefficient of Compound in Water
T(event) = Event Duration
Tau = Lag Time
T* = Time to Reach Steady-State
B = Dimensionless Ratio of the Permeability Coefficient of a Compound Through the
Stratum Corneum Relative to its Permeability Coefficient Across the Viable Epidermis
NA = Not applicable.

where:

$Intake_{ai}$	=	intake of chemical "i" from air via inhalation (mg/kg/day)
C_{ai}	=	concentration of chemical "i" in air (mg/m^3)
IR_a	=	inhalation rate (m^3/hour)
ET	=	exposure time (hours/day)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (years)
BW	=	body weight (kg)
AT	=	averaging time (days); for non-carcinogens, AT = ED x 365 days/year; for carcinogens, AT = 70 years x 365 days/year

There are no well-established models available for estimating migration of volatiles from groundwater into a construction/utility trench. This risk assessment used an approach suggested by the Virginia Department of Environmental Quality (VDEQ, 2002) that is based on a combination of a vadose zone model to estimate volatilization of gases from contaminated groundwater into a trench and a box model to estimate dispersion of the contaminants from the air inside the trench into the aboveground atmosphere to estimate the EPC for air in a construction trench. The VDEQ methodology is described in the following sections.

Airborne concentrations of a contaminant in a trench were estimated using the following equation:

$$C_{ai} = C_{GW} \times VF \times CF$$

where:

C_{ai}	= air concentration of contaminant in the trench (mg/m^3)
C_{GW}	= concentration of contaminant in groundwater (µg/L)
VF	= volatilization factor (L/m^3)
CF	= conversion factor [0.001 milligrams per micrograms (mg/ug)]

The model used in this risk assessment assumed that a construction project could result in an excavation 15 ft bls or less. If the depth to groundwater at a site was less than 15 ft, the VDEQ model assumed that a worker would encounter groundwater when digging an excavation or a trench. The worker would then have direct exposure to the groundwater. The worker would also be exposed to contaminants in the air inside the trench that would result from volatilization from the groundwater pooling at the bottom of the trench.

The following equation was used to calculate volatilization factor for a trench less than 15 ft deep.

$$VF = (Ki \times A \times F \times 10^{-3} \times 10^{4} \times 3{,}600) / (ACH \times V)$$

where:
- K_i = overall mass transfer coefficient of contaminant [centimeters per second (cm/s)]
- A = area of the trench (m^2)
- F = fraction of floor through which contaminant can enter (unitless)
- ACH = air changes per hour (h^{-1})(360 h^{-1})
- V = volume of trench (m^3)
- 10^{-3} = conversion factor (L/cm^3)
- 10^4 = conversion factor (cm^2/m^2)
- 3,600 = conversion factor (seconds/hour)

Studies of urban canyons suggest that if the ratio of trench width relative to wind direction to trench depth is less than or equal to 1, a circulation cell or cells will be set up within the trench that limits the degree of gas exchange with the atmosphere. If the ratio of trench width to trench depth is greater than 1, air exchange between the trench and aboveground atmosphere is not restricted, thus ACHs are assumed to be 360 based on the ratio of trench depth to the average wind speed. This risk assessment assumed that the width to trench depth ratio was greater than 1. Therefore, ACH were assumed to be 360.

$$K_i = 1 / \{(1/k_iL) + [(RT) / (H_i\, k_iG)]\}$$

where:
- k_iL = liquid-phase mass transfer coefficient of i (cm/s)
- R = ideal gas constant (atm-m^3/mole-°K = 8.2×10^{-5})
- T = average system absolute temperature °K (Default = 298°K)
- H_i = Henry's Law constant of i (atm-m^3/mol)
- k_iG = gas-phase mass transfer coefficient of i (cm/s)

$$k_iL = (MWO_2/MWi)^{0.5} \times (T/298) \times kL,O_2$$

where:
- k_iL = liquid-phase mass transfer coefficient of component i (cm/s)
- MWO_2 = molecular weight of O_2 [grams per mole (g/mol)]
- MW_i = molecular weight of component i (g/mol)
- kL,O_2 = liquid-phase mass transfer coefficient of oxygen at 25°C (cm/s) = 0.002 cm/s

$$k_iG = (MWH_2O/MW_i)^{0.335} \times (T/298)^{1.005} \times kG, H_2O$$

where: k_iG = gas-phase mass transfer coefficient of component i (cm/s)
MWH_2O = molecular weight of water (g/mol)
kG,H_2O = gas-phase mass transfer coefficient of water vapor at 25°C (cm/s)
= 0.833 (cm/s)

The same exposure frequency and exposure time used to estimate intake from dermal contact with groundwater is used to evaluate intake from inhalation of VOCs from groundwater during construction activities. Chemical properties were obtained from the USEPA's Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (USEPA, 2002c) and are presented in Table 7-14.

7.2.4.8 Vapor Intrusion Into Buildings

Future full-time employees and hypothetical future residents may be exposed to COPCs that have volatilized from groundwater and migrated through building foundations into indoor air. Indoor air concentrations resulting from vapor intrusion from groundwater are estimated using the Johnson and Ettinger volatilization model (USEPA, 2003). The model assumes that vapors of volatile chemicals are emitted from groundwater, migrate through surface and subsurface soil, through cracks in the building foundation, and accumulate in air inside a building. Input values for the vapor intrusion model are presented in Table 7-15. Results of the vapor intrusion model are included in Appendix K.

7.3 TOXICITY ASSESSMENT

The objective of a toxicity assessment is to identify the potential for human health hazards and adverse effects in exposed populations. Quantitative estimates of the relationship between the magnitude and type of exposures and the severity or probability of human health effects are defined for the identified COPCs. Quantitative toxicity values [cancer slope factors (CSFs) and reference doses (RfDs)] determined during this component of the risk assessment are integrated with outputs of the exposure assessment to characterize the potential for adverse health effects for each receptor group (Section 7.4). A CSF is an indicator of the potency of a chemical carcinogen (i.e., the greater the CSF, the more potent the carcinogen). More formally, a CSF is an upper bound estimate, approximating a 95-percent confidence limit, on the increased cancer risk from a lifetime exposure to a carcinogen. This estimate is usually expressed in units of proportion (of a population) affected per mg/kg/day of a carcinogen. The RfD is the dose at which and below which adverse non-carcinogenic effects are not anticipated.

7.3.1 Sources of Toxicity Criteria

Oral and inhalation RfDs and CSFs to be used in the site-specific risk assessments were obtained from the following primary USEPA sources (USEPA, 2003):

Table 7-14
Chemical Properties for
Volatilization from Groundwater to Outdoor Air Model

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	Molecular Weight (g/mole)	Henry's Law Constant ($atm\text{-}m^3/mol$)
Volatile Organic Compounds		
1,2,4-Trichlorobenzene	181.5	1.42E-03
1,4-Dichlorobenzene	147	2.43E-03
Benzene	78.1	5.56E-03
Chlorobenzene	112.6	3.71E-03
Chloroform	119.4	3.66E-03
cis-1,2-Dichloroethene	96.95	4.07E-03
Ethylbenzene	106.2	7.88E-03
Isopropylbenzene	120.19	1.31E-02
Tetrachloroethene	165.83	1.84E-02
Total Xylenes	106.2	5.25E-03
trans-1,2-Dichloroethene	97	9.39E-03
Trichloroethene	131.4	1.03E-02
Vinyl Chloride	62.5	2.71E-02
Semivolatile Organic Compounds		
1,1'- Biphenyl	154.2	4.08E-04
2-Methylnaphthalene	1.42E+02	5.80E-05
Naphthalene	1.28E+02	4.83E-04

Source: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, USEPA, December 2002.

Table 7-15
Input Parameters for Vapor Intrusion Model

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Parameter	Value	Definition
L_F	15 (Default)	Depth below grade to bottom of enclosed space floor, (cm)
L_{WT}	61 (Site-specific)	Depth below grade to water table, (cm)
Soil Type	SC (Site-specific)	SCS soil type directly above water table
T_S	22 (Site-specific)	Average soil/groundwater temperature, (^oC)
ρ_b^V	1.63 (Default)	Vadose zone soil dry bulk density, (g/cm^3)
n^V	0.385 (Default)	Vadose zone soil total porosity, (unitless)
θ_w^V	0.197 (Site-specific)	Vadose zone soil water-filled porosity, (cm^3/cm^3)
TR	1.0E-06 (Default)	Target risk for carcinogens, (unitless)
THQ	1 (Default)	Target hazard quotient for noncarcinogens, (unitless)
AT_C	70 (Default)	Averaging time for carcinogens, (years)
AT_{NC}	30 (Default)	Averaging time for noncarcinogens, (years)
ED	30 (Default)	Exposure duration, (years)
EF	350 (Default)	Exposure frequency, (days/years)

Notes:
Default values are representative of site conditions.

- Integrated Risk Information System (IRIS) (Online) (USEPA, 2007b).
- USEPA Provisional Peer Reviewed Toxicity Values (PPRTVs) – The Office of Research and Development/National Center for Environmental Assessment (NCEA) Superfund Health Risk Technical Support Center develops PPRTVs on a chemical specific basis when requested by USEPA's Superfund program.
- Other Toxicity Values – These sources include but are not limited to California Environmental Protection Agency (CA EPA) toxicity values, the Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs), and the Annual Health Effects Assessment Summary Tables (HEAST) (USEPA, 1997c).

Although RfDs and CSFs can be found in several toxicological sources, USEPA's IRIS on-line database is the preferred source of toxicity values. This database is continuously updated and values presented have been verified by USEPA. The USEPA Region III Risk-Based Concentration (RBC) tables were also used as a source of toxicity criteria when these criteria were not available from the aforementioned references. Oral and inhalation RfDs and CSFs for the constituents identified as COPCs are presented in Tables 7-16 through 7-19.

7.3.2 Toxicity Criteria for Dermal Exposures

RfDs and CSFs found in the literature are frequently expressed as administered doses; therefore, these values are considered to be inappropriate for estimating the risks associated with dermal routes of exposure. Oral dose-response parameters based on administered doses must be adjusted to absorbed doses before the comparison to estimated dermal exposure intakes is made.

The adjustment from administered to absorbed dose was made using chemical-specific gastrointestinal absorption efficiencies published in available guidance [i.e., USEPA 2004a (the primary reference); IRIS; ATSDR toxicological profiles, etc.] and the following equations:

$$RfD_{dermal} = (RfD_{oral})(ABS_{GI})$$

$$CSF_{dermal} = (CSF_{oral}) / (ABS_{GI})$$

where: ABS_{GI} = absorption efficiency in the gastrointestinal tract.

Table 7-16
Non-Cancer Toxicity Data - Oral/Dermal

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal (1)	Absorbed RfD for Dermal (2)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units		Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Volatile Organic Compounds										
1,2,4-Trichlorobenzene	Chronic	1.0E-02	mg/kg/day	1	1.0E-02	mg/kg/day	Kidney	1000/1	IRIS	04/18/2007
1,2-Dibromo-3-Chloropropane	Chronic	2.0E-04	mg/kg/day	1	2.0E-04	mg/kg/day	Reproductive	NA	NCEA	4/6/2006
1,4-Dichlorobenzene	Chronic	3.0E-02	mg/kg/day	1	3.0E-02	mg/kg/day	Liver	NA	NCEA	4/6/2006
Benzene	Chronic	4.0E-03	mg/kg/day	1	4.0E-03	mg/kg/day	Blood	300/1	IRIS	04/18/2007
Chlorobenzene	Chronic	2.0E-02	mg/kg/day	1	2.0E-02	mg/kg/day	Liver	1000/1	IRIS	04/18/2007
Chloroform	Chronic	1.0E-02	mg/kg/day	1	1.0E-02	mg/kg/day	Liver	1000/1	IRIS	04/18/2007
cis-1,2-Dichloroethene	Chronic	1.0E-02	mg/kg/day	1	1.0E-02	mg/kg/day	Blood	NA	NCEA	4/6/2006
trans-1,2-Dichloroethene	Chronic	2.0E-02	mg/kg/day	1	2.0E-02	mg/kg/day	Blood	1000/1	IRIS	04/18/2007
Ethylbenzene	Chronic	1.0E-01	mg/kg/day	1	1.0E-01	mg/kg/day	Liver, Kidney	1000/1	IRIS	04/18/2007
Isopropylbenzene	Chronic	1.0E-01	mg/kg/day	1	1.0E-01	mg/kg/day	Kidney	1000/1	IRIS	04/18/2007
Tetrachloroethene	Chronic	1.0E-02	mg/kg/day	1	1.0E-02	mg/kg/day	Liver	1000/1	IRIS	04/18/2007
Total Xylenes	Chronic	2.0E-01	mg/kg/day	1	2.0E-01	mg/kg/day	Body Weight	1000/1	IRIS	04/18/2007
Trichloroethene	Chronic	5.0E-01	mg/kg/day	1	5.0E-01	mg/kg/day	Liver	NA	CA EPA	12/2002
Vinyl Chloride	Chronic	3.0E-03	mg/kg/day	1	3.0E-03	mg/kg/day	Liver	30/1	IRIS	04/18/2007
Semivolatile Organic Compounds										
1,1-Biphenyl	Chronic	5.0E-02	mg/kg/day	1	5.0E-02	mg/kg/day	Kidney	100/10	IRIS	04/18/2007
2,4,5-Trichlorophenol	Chronic	1.0E-01	mg/kg/day	1	1.0E-01	mg/kg/day	Liver, Kidney	1000/1	IRIS	04/18/2007
2,4-Dichlorophenol	Chronic	3.0E-03	mg/kg/day	1	3.0E-03	mg/kg/day	Immunological	100/1	IRIS	04/18/2007
2-Methylnaphthalene	Chronic	4.0E-03	mg/kg/day	1	4.0E-03	mg/kg/day	Lungs	1000/1	IRIS	04/18/2007
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	Chronic	2.0E-02	mg/kg/day	1	2.0E-02	mg/kg/day	Body Weight, Nasal	3000/1	IRIS	04/18/2007
Pentachlorophenol	Chronic	3.0E-02	mg/kg/day	1	3.0E-02	mg/kg/day	Liver, Kidney	100/1	IRIS	04/18/2007
Pesticides/PCBs										
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	Chronic	5.0E-04	mg/kg/day	1	5.0E-04	mg/kg/day	Liver	100/1	IRIS	04/18/2007
Alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	Chronic	5.0E-04	mg/kg/day	1	5.0E-04	mg/kg/day	Liver	300/1	IRIS	04/18/2007
Beta-BHC	Chronic	NA	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	Chronic	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	Chronic	5.0E-05	mg/kg/day	1	5.0E-05	mg/kg/day	Liver	100/1	IRIS	04/18/2007
Endrin Ketone[3]	Chronic	3.0E-04	mg/kg/day	1	3.0E-04	mg/kg/day	Liver	100/1	IRIS	04/18/2007
Gamma-BHC (Lindane)	Chronic	3.0E-04	mg/kg/day	1	3.0E-04	mg/kg/day	Liver, Kidney	1000/1	IRIS	04/18/2007
Gamma-Chlordane	Chronic	5.0E-04	mg/kg/day	1	5.0E-04	mg/kg/day	Liver	300/1	IRIS	04/18/2007
Heptachor	Chronic	5.0E-04	mg/kg/day	1	5.0E-04	mg/kg/day	Liver	300/1	IRIS	04/18/2007
Heptachor Epoxide	Chronic	1.3E-05	mg/kg/day	1	1.3E-05	mg/kg/day	Liver	1000/1	IRIS	04/18/2007
Metals										
Arsenic	Chronic	3.0E-04	mg/kg/day	1	3.0E-04	mg/kg/day	Skin, CVS	3/1	IRIS	09/15/2003

Notes:
1 - USEPA, 2001a: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.
2 - Adjusted dermal RfD = Oral RfD x Oral Absorption Efficiency for Dermal.
3 - Endrin is used as a surrogate for endrin ketone.

Definitions:
NA = Not Applicable
CVS = Cardiovascular system
IRIS = Integrated Risk Information System
HEAST= Health Effects Assessment Summary Tables
NCEA = USEPA Region 3 Risk-Based Concentration Table, April 25, 2003.

Table 7-17
Non-Cancer Toxicity Data - Inhalation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical of Potential Concern	Chronic/ Subchronic	Inhalation RfC		Extrapolated RfD (1)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfC : Target Organ(s)	
		Value	Units	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	Chronic	2.0E-04	mg/m3	5.7E-05	mg/kg/day	Reproductive	1000/1	IRIS	04/18/2007
1,4-Dichlorobenzene	Chronic	8.0E-01	mg/m3	2.3E-01	mg/kg/day	Liver	100/1	IRIS	04/18/2007
Benzene	Chronic	3.0E-02	mg/m3	8.6E-03	mg/kg/day	Blood	300/1	IRIS	04/18/2007
Chlorobenzene	Chronic	4.9E-02	mg/m3	1.4E-02	mg/kg/day	Liver	NA	NCEA	04/6/2007
Chloroform	Chronic	4.9E-02	mg/m3	1.4E-02	mg/kg/day	Liver	NA	NCEA	04/6/2007
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	Chronic	6.0E-02	mg/m3	1.7E-02	mg/kg/day	Blood	NA	NCEA	04/6/2007
Ethylbenzene	Chronic	1.0E+00	mg/m3	2.9E-01	mg/kg/day	Liver, Kidney	300/1	IRIS	04/18/2007
Isopropylbenzene	Chronic	4.0E-01	mg/m3	1.1E-01	mg/kg/day	Kidney	1000/1	IRIS	04/18/2007
Tetrachloroethene	Chronic	2.8E-01	mg/m3	8.0E-02	mg/kg/day	Liver	NA	NCEA	04/6/2007
Total Xylenes	Chronic	1.1E-01	mg/m3	3.0E-02	mg/kg/day	Body Weight	300/1	IRIS	04/18/2007
Trichloroethene	Chronic	6.0E-01	mg/m^3	1.7E-01	(mg/kg/day)	Liver	NA	CA EPA	12/2002
Vinyl Chloride	Chronic	9.8E-02	mg/m3	2.8E-02	mg/kg/day	Liver	30/1	IRIS	04/18/2007
Semivolatile Organic Compounds									
1,1-Biphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	Chronic	3.0E-03	mg/m3	8.6E-04	mg/kg/day	Body Weight, Nasal	3000/1	IRIS	04/18/2007
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs									
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	Chronic	7.0E-04	mg/m3	2.0E-04	(mg/kg/day)	Liver	1000/1	IRIS	04/18/2007
Beta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7-17
Non-Cancer Toxicity Data - Inhalation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 2

Chemical of Potential Concern	Chronic/ Subchronic	Inhalation RfC		Extrapolated RfD (1)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfC : Target Organ(s)	
		Value	Units	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Gamma-Chlordane	Chronic	7.0E-04	mg/m3	2.0E-04	(mg/kg/day)	Liver	1000/1	IRIS	09/15/2003
Heptachor	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachor Epoxide	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals									
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
(1) - Extrapolated RfD = RfC *20m^3/day / 70 kg

Definitions:
NA = Not Applicable
CNS = Central Nervous System
IRIS = Integrated Risk Information System
HEAST= Health Effects Assessment Summary Tables
NCEA = USEPA Region 3 RBC Table, April 25, 2003.

Table 7-18
Cancer Toxicity Data - Oral/Dermal

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal (1)	Absorbed Cancer Slope Factor for Dermal (2)		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Units		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
1,2-Dibromo-3-Chloropropane	8.0E-01	(mg/kg/day)-1	1	8.0E-01	(mg/kg/day)-1	NA	NCEA	04/6/2007
1,4-Dichlorobenzene	2.4E-02	(mg/kg/day)-1	1	2.4E-02	(mg/kg/day)-1	C	HEAST	07/97
Benzene	5.5E-02	(mg/kg/day)-1	1	5.5E-02	(mg/kg/day)-1	A	IRIS	04/18/2007
Chlorobenzene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
Chloroform	NA	NA	NA	NA	NA	B2	IRIS	04/18/2007
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
Isopropylbenzene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
Tetrachloroethene	5.4E-01	(mg/kg/day)-1	1	5.4E-01	(mg/kg/day)-1	NA	NCEA	04/6/2007
Total Xylenes	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	1.3E-02	$(mg/kg/day)^{-1}$	1	1.3E-02	$(mg/kg/day)^{-1}$	C	CA EPA	12/2002
Vinyl Chloride	1.5E+00	(mg/kg/day)-1	1	1.5E+00	(mg/kg/day)-1	A	IRIS	09/15/2003
Semivolatile Organic Compounds								
1,1-Biphenyl	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	7.3E+00	(mg/kg/day)-1	1	7.3E+00	(mg/kg/day)-1	B2	IRIS	04/18/2007
Naphthalene	NA	NA	NA	NA	NA	C	IRIS	04/18/2007
Pentachlorophenol	1.2E-01	(mg/kg/day)-1	1	1.2E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Pesticides/PCBs								
4,4'-DDD	2.4E-01	(mg/kg/day)-1	1	2.4E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
4,4'-DDE	3.4E-01	(mg/kg/day)-1	1	3.4E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
4,4'-DDT	3.4E-01	(mg/kg/day)-1	1	3.4E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Alpha-BHC	6.3E+00	(mg/kg/day)-1	1	6.3E+00	(mg/kg/day)-1	B2	IRIS	04/18/2007
Alpha-Chlordane	3.5E-01	(mg/kg/day)-1	1	3.5E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Beta-BHC	1.8E+00	(mg/kg/day)-1	1	1.8E+00	(mg/kg/day)-1	C	IRIS	04/18/2007
Delta-BHC	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
Dieldrin	1.6E+01	(mg/kg/day)-1	1	1.6E+01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Endrin Ketone	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	1.3E+00	(mg/kg/day)-1	1	1.3E+00	(mg/kg/day)-1	B2	HEAST	07/97

Table 7-18
Cancer Toxicity Data - Oral/Dermal

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal (1)	Absorbed Cancer Slope Factor for Dermal (2)		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Units		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Gamma-Chlordane	3.5E-01	(mg/kg/day)-1	1	3.5E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Heptachor	4.5E+00	(mg/kg/day)-1	1	4.5E+00	(mg/kg/day)-1	B2	IRIS	04/18/2007
Heptachor Epoxide	9.1E+00	(mg/kg/day)-1	1	9.1E+00	(mg/kg/day)-1	B2	IRIS	04/18/2007
Metals								
Arsenic	1.5E+00	(mg/kg/day)-1	1	1.5E+00	(mg/kg/day)-1	A	IRIS	09/15/2003

Notes:
(1) - USEPA, 2001a: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.
(2) - Adjusted cancer slope factor for dermal = Oral cancer slope factor / Oral Absorption Efficiency for Dermal.

USEPA Group:
A - Human carcinogen.
B1 - Probable human carcinogen - indicates that limited human data are available.
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans.
C - Possible human carcinogen.
D - Not classifiable as a human carcinogen.
E - Evidence of non-carcinogenicity.

IRIS = Integrated Risk Information System.
HEAST= Health Effects Assessment Summary Tables.
NA = Not Available.
NCEA = USEPA National Center for Environmental Assessment (USEPA Region III RBC Table, April 25, 2003).
USEPA(1) = USEPA, Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons, July 1993, EPA/600/R-93/089.
USEPA(2) = USEPA, PCBs: Cancer Dose-Response Assessment and Applications to Environmental Mixtures, September 1996, EPA/600/P-96/001F.

Table 7-19
Cancer Toxicity Data - Inhalation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical of Potential Concern	Unit Risk		Inhalation Cancer Slope Factor (1)		Weight of Evidence/ Cancer Guideline Description	Unit Risk : Inhalation CSF	
	Value	Units	Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	NA	NA	NA	NA	D	IRIS	04/18/2007
1,2-Dibromo-3-Chloropropane	6.0E+00	$(mg/m^3)^{-1}$	2.1E+01	$(mg/kg/day)^{-1}$	NA	NCEA	04/6/2007
1,4-Dichlorobenzene	6.3E-03	$(mg/m^3)^{-1}$	2.2E-02	$(mg/kg/day)^{-1}$	NA	NCEA	04/6/2007
Benzene	7.8E-03	$(mg/m^3)^{-1}$	2.7E-02	$(mg/kg/day)^{-1}$	A	IRIS	04/18/2007
Chlorobenzene	NA	NA	NA	NA	D	IRIS	04/18/2007
Chloroform	2.3E-02	$(mg/m^3)^{-1}$	8.1E-02	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
cis-1,2-Dichloroethene	NA	NA	NA	NA	D	IRIS	04/18/2007
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	D	IRIS	04/18/2007
Isopropylbenzene	NA	NA	NA	NA	D	IRIS	04/18/2007
Tetrachloroethene	5.7E-03	$(mg/m^3)^{-1}$	2.0E-02	$(mg/kg/day)^{-1}$	NA	NCEA	04/6/2007
Total Xylenes	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	2.0E-03	$(mg/m^3)^{-1}$	7.0E-03	$(mg/kg/day)^{-1}$	C	CA EPA	12/2002
Vinyl Chloride	8.8E-03	$(mg/m^3)^{-1}$	3.1E-02	$(mg/kg/day)^{-1}$	A	IRIS	04/18/2007
Semivolatile Organic Compounds							
1,1-Biphenyl	NA	NA	NA	NA	D	IRIS	04/18/2007
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	3.1E+00	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Naphthalene	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	B2	IRIS	04/18/2007
Pesticides/PCBs							
4,4'-DDD	NA	NA	NA	NA	B2	IRIS	04/18/2007
4,4'-DDE	NA	NA	NA	NA	B2	IRIS	04/18/2007
4,4'-DDT	9.7E-02	$(mg/m^3)^{-1}$	3.4E-01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Alpha-BHC	1.8E+00	$(mg/m^3)^{-1}$	6.3E+00	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Alpha-Chlordane	1.0E-01	$(mg/m^3)^{-1}$	3.5E-01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Beta-BHC	5.3E-01	$(mg/m^3)^{-1}$	1.9E+00	$(mg/kg/day)^{-1}$	C	IRIS	04/18/2007
Delta-BHC	NA	NA	NA	NA	D	IRIS	04/18/2007
Dieldrin	4.6E+00	$(mg/m^3)^{-1}$	1.6E+01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Endrin Ketone	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA

Table 7-19
Cancer Toxicity Data - Inhalation

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 2

Chemical of Potential Concern	Unit Risk		Inhalation Cancer Slope Factor (1)		Weight of Evidence/ Cancer Guideline Description	Unit Risk : Inhalation CSF	
	Value	Units	Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Gamma-Chlordane	1.0E-01	$(mg/m^3)^{-1}$	3.5E-01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Heptachor	1.3E-01	$(mg/m^3)^{-1}$	4.6E-01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Heptachor Epoxide	2.6E+00	$(mg/m^3)^{-1}$	9.1E+00	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Metals							
Arsenic	4.3E+00	$(mg/m^3)^{-1}$	1.5E+01	$(mg/kg/day)^{-1}$	A	IRIS	04/18/2007

Notes:
1 - Inhalation CSF = Unit Risk * 70 kg / $20m^3$/day.

Definitions:
IRIS = Integrated Risk Information System.
HEAST= Health Effects Assessment Summary Tables.
NA = Not Available.
NCEA = USEPA National Center for Environmental Assessment
(USEPA Region 3 RBC Table, April 25, 2003).

USEPA Group:
A - Human carcinogen.
B1 - Probable human carcinogen - indicates that limited human data are available.
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans.
C - Possible human carcinogen.
D - Not classifiable as a human carcinogen.
E - Evidence of non-carcinogenicity.

7.3.3 Toxicity Criteria for TCE

Toxicity criteria (i.e., RfDs, CSFs) for TCE are not currently published on the USEPA's IRIS database or in HEAST. The toxicity criteria developed by the California EPA (CA EPA, 2002) were used for TCE in this risk assessment. The uncertainty associated with the use of the CA EPA toxicity values is discussed in the Uncertainty Analysis.

7.4 RISK CHARACTERIZATION

Potential risks (non-carcinogenic and carcinogenic) for human receptors resulting from the exposures to contaminated media are quantitatively determined during the risk characterization component of the HHRA.

A summary and interpretive discussion of the quantitative risk estimates will be provided in the text of the risk assessment. COPCs which contribute significantly to elevated risks will be identified as "risk drivers" during the interpretive risk discussion. The chemical-specific numeric estimates of risk will be contained in the risk assessment spreadsheets provided in the appendices to the risk assessment.

7.4.1 Risk Estimation Methods

Quantitative estimates of risk are calculated using intake and toxicity values according to risk assessment methods outlined in current USEPA guidance (USEPA, 1989). Lifetime cancer risks are expressed in the form of dimensionless probabilities, referred to as incremental cancer risks (ICRs) which are derived using published CSFs. Non-carcinogenic risk estimates are presented in the form of HQs that are derived using published RfDs.

ICR estimates are generated for each COPC using estimated exposure intakes and published CSFs, as follows:

$$ICR = (\text{Estimated Exposure Intake})\,(CSF)$$

If the above equation results in an ICR greater than 0.01, the following equation is used:

$$ICR = 1-[\exp(-\text{Estimated Exposure Intake})(CSF)]$$

The ICRs for all COPCs in an exposure scenario are summed to give a cumulative ICR. An ICR of 10^{-6} indicates that the exposed receptor has a one-in-one-million chance of developing cancer under the defined exposure scenario. Alternatively, such a risk may be interpreted as representing one additional case of cancer in an exposed population of one million persons.

Non-carcinogenic risks are assessed using the concept of HQs and HIs. The HQ for a COPC is the ratio of the estimated intake to the RfD, as follows:

$$HQ = (\text{Estimated Exposure Intake})/(\text{RfD})$$

An HI is generated by summing the individual HQs for all of the COPCs. It should be noted that HI is not a mathematical prediction of the severity of toxic effects and therefore is not a true "risk"; it is simply a numerical indicator of the possibility of the occurrence of non-carcinogenic (threshold) effects.

7.4.2 Comparison of Quantitative Risk Estimates to Benchmarks

In order to interpret the quantitative risks and to aid risk managers in determining the need for remediation at a site, quantitative risk estimates will be compared to typical benchmarks. The USEPA has defined the range of 10^{-4} to 10^{-6} as the ICR "target range" for most hazardous waste facilities addressed under CERCLA. Cumulative ICRs greater than 10^{-4} generally will indicate that some degree of remediation is required, while ICRs below 10^{-6} normally will not result in remedial efforts. Whenever ICRs fall between 10^{-4} and 10^{-6}, decisions for remediation will be made on a case-specific basis. Individual chemicals contributing significantly to risks above the target range are considered to be COCs. FDEP has indicated that 1×10^{-6} is its cancer risk level of concern.

An HI exceeding unity (1.0) indicates that there may be potential non-carcinogenic health risks associated with exposure. If an HI exceeds unity, target organ effects from individual COPCs contributing to the risk are considered. Only those chemicals which impact the same target organ(s) or exhibit similar critical effect(s) will be regarded as truly additive. Thus, COPCs contributing to an HI greater than 1.0 on the basis of a single target organ/effect are considered to be COCs.

7.4.3 Results of the Risk Characterization

This section contains a summary of the results of the risk characterization for PSC 47. Potential cancer risks and HIs were calculated for construction workers, site maintenance workers, occupational workers, adolescent and adult trespassers, and child and adult residents, and are summarized in Table 7-20. Chemicals with ICRs and HIs exceeding USEPA and FDEP target levels are summarized in Table 7-21. Results of the risk assessment in RAGS Part D format are included in Appendix K. Sample calculations are also presented in Appendix K.

Table 7-20
Summary of Cancer Risks and Hazard Indices
Reasonable Maximum Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Receptor	Media	Exposure Route	Cancer Risk	Chemicals with Cancer Risks > 10^{-4}	Chemicals with Cancer Risks > 10^{-5} and ≤ 10^{-4}	Chemicals with Cancer Risks > 10^{-6} and ≤ 10^{-5}	Hazard Index	Chemicals with HI > 1
Construction Worker	Surface/Subsurface Soil	Incidental Ingestion	2E-06	- -	- -	- -	0.5	- -
		Dermal Contact	2E-07	- -	- -	- -	0.05	- -
		Inhalation	2E-07	- -	- -	- -	0.002	
		Total	2E-06	- -	- -	- -	0.5	- -
	Groundwater	Dermal Contact	3E-07	- -	- -	- -	0.0	- -
		Inhalation	6E-10	- -	- -	- -	0.00	- -
		Total	3E-07	- -	- -	- -	0.0	- -
		Total All Media	2E-06				0.6	
Maintenance Workers	Surface Soil	Incidental Ingestion	2E-06	- -	- -	- -	0.02	- -
		Dermal Contact	8E-07	- -	- -	- -	0.007	- -
		Inhalation	1E-09	- -	- -	- -	0.0000008	- -
		Total	2E-06	- -	- -	- -	0.02	- -
Occupational Workers	Surface Soil	Incidental Ingestion	3E-05	- -	- -	Benzo(a)pyrene Equivalents, 4,4'-DDT, Dieldrin, Arsenic	0.3	- -
		Dermal Contact	8E-06	- -	- -	4,4'-DDT, Dieldrin	0.07	- -
		Inhalation	1E-08	- -	- -	- -	0.000007	- -
		Total	3E-05	- -	4,4'-DDT	Benzo(a)pyrene Equivalents, Dieldrin, Arsenic	0.4	- -
Adolescent Trespassers	Surface Soil	Incidental Ingestion	6E-06	- -	- -	4,4'-DDT	0.2	- -
		Dermal Contact	2E-06	- -	- -	- -	0.05	- -
		Inhalation	6E-10				0.000001	- -
		Total	9E-06	- -	- -	4,4'-DDT	0.2	- -
Adult Trespassers	Surface Soil	Incidental Ingestion	4E-06	- -	- -	4,4'-DDT	0.05	- -
		Dermal Contact	7E-07	- -	- -	- -	0.008	- -
		Inhalation	1E-09	- -	- -	- -	0.0000008	- -
		Total	4E-06	- -	- -	4,4'-DDT	0.06	- -

Table 7-20
Summary of Cancer Risks and Hazard Indices
Reasonable Maximum Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Receptor	Media	Exposure Route	Cancer Risk	Chemicals with Cancer Risks > 10^{-4}	Chemicals with Cancer Risks > 10^{-5} and ≤ 10^{-4}	Chemicals with Cancer Risks > 10^{-6} and ≤ 10^{-5}	Hazard Index	Chemicals with HI > 1
Child Residents	Surface/Subsurface Soil	Incidental Ingestion	1E-04	- -	4,4'-DDT, Arsenic	Benzo(a)pyrene Equivalents, 4,4'-DDD, 4,4'-DDE, alpha-BHC, alpha-Chlordane, Dieldrin, Heptachlor Epoxide	5	4,4'-DDT
		Dermal Contact	2E-05	- -	- -	Benzo(a)pyrene Equivalents, 4,4'-DDT, Dieldrin, Arsenic	0.5	- -
		Inhalation	9E-09	- -	- -	- -	0.00002	- -
		Total	1E-04	- -	4,4'-DDT, Dieldrin, Arsenic	Benzo(a)pyrene Equivalents, 4,4'-DDD, 4,4'-DDE, alpha-BHC, alpha-Chlordane, gamma-Chlordane, Heptachlor Epoxide	6	4,4'-DDT
	Groundwater	Ingestion	6E-03	Arsenic	Aldrin, alpha-BHC	Tetrachloroethene, Vinyl Chloride, 4,4'-DDD, Beta-BHC, Dieldrin, gamma-BHC, Heptachlor Epoxide	146	Arsenic, Aldrin, delta-BHC, gamma-BHC, Heptachlor Epoxide
		Dermal Contact	4E-05	- -	- -	Pentachlorophenol, 4,4'-DDD, Aldrin, alpha-BHC, Arsenic	1	- -
		Inhalation	1E-05	- -	- -	etrachloroethene, □Vinyl Chloric	1	- -
		Total	6E-03	Arsenic	Vinyl Chloride, Aldrin, alpha-BHC	1,2-Dibromo-3-Chloropropane, Tetrechloroethene, Pentachlorophenol, 4'4'-DDT, beta-BHC, Dieldrin, gamma-BHC, Heptachlor Epoxide	148	cis,-1,2-Dichlroethene, Arsenic, Aldrin, delta-BHC, gamma-BHC, Heptachlor Epoxide
		Total All Media	6E-03				154	

Table 7-20
Summary of Cancer Risks and Hazard Indices
Reasonable Maximum Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Receptor	Media	Exposure Route	Cancer Risk	Chemicals with Cancer Risks > 10^{-4}	Chemicals with Cancer Risks > 10^{-5} and ≤ 10^{-4}	Chemicals with Cancer Risks > 10^{-6} and ≤ 10^{-5}	Hazard Index	Chemicals with HI > 1
Adult Residents	Surface/Subsurface Soil	Incidental Ingestion	5E-05	- -	4,4'-DDT	Benzo(a)pyrene Equivalents, 4,4'-DDD, Dieldrin, Arsenic	0.6	- -
		Dermal Contact	9E-06	- -	- -	4,4'-DDT, Arsenic	0.08	- -
		Inhalation	2E-08				0.000009	- -
		Total	6E-05	- -	4,4'-DDT	Benzo(a)pyrene Equivalents, 4,4'-DDD, 4,4'-DDE, Dieldrin, Arsenic	0.7	- -
	Groundwater	Ingestion	6E-03	Arsenic	Aldrin, alpha-BHC	1,2-Dibromo-3-Chloropropane, Tetrachloroethene, Vinyl Chloride, 4,4'-DDD, beta-BHC, Dieldrin, gamma-BHC, Heptachlor Epoxide	42	Arsenic
		Dermal Contact	7E-05	- -	alpha-BHC	Pentachlorophenol, 4,4'-DDD, Aldrin, beta-BHC, Dieldrin, Gamma-BHC, Arsenic	0	- -
		Inhalation	1E-05	- -	- -	Chloropropane, Tetrachloroethen	0	- -
		Total	6E-03	Arsenic	Vinyl Chloride, Aldrin, alpha-BHC	1,2-Dibromo-3-Chloropropane, Tetrachloroethene, Pentachlorophenol, beta-BHC, Dieldrin, gamma-BHC, Heptachlor Epoxide	42	Arsenic
		Total All Media	7E-03				43	

Table 7-20
Summary of Cancer Risks and Hazard Indices
Reasonable Maximum Exposures

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Receptor	Media	Exposure Route	Cancer Risk	Chemicals with Cancer Risks > 10^{-4}	Chemicals with Cancer Risks > 10^{-5} and ≤ 10^{-4}	Chemicals with Cancer Risks > 10^{-6} and ≤ 10^{-5}	Hazard Index	Chemicals with HI > 1
Lifelong Residents (Child and Adult)	Surface/Subsurface Soil	Incidental Ingestion	2E-04	- -	,4'-DDT, Dieldrin, Arseni	Benzo(a)pyrene Equivalents, 4,4'-DDE, 4,4'-DDD, Alpha-BHC, Alpha-Chlordane, Gamma-Chlordane, Heptachlor Epoxide	NA	- -
		Dermal Contact	2E-05	- -	- -	Benzo(a)pyrene Equivalents, 4,4'-DDT, Dieldrin, Arsenic	NA	- -
		Inhalation	3E-08	- -	- -	- -	NA	- -
		Total	2E-04	- -	,4'-DDT, Dieldrin, Arseni	Benzo(a)pyrene Equivalents, 4,4'-DDE, 4,4'-DDD, Alpha-BHC, Alpha-Chlordane, Gamma-Chlordane, Heptachlor Epoxide	NA	- -
	Groundwater	Ingestion	1E-02	Arsenic	Vinyl Chloride, Aldrin, alpha-BHC, gamma-BHC	1,2-Dibromo-3-Chloropropane, Tetrachloroethene, Pentachlorophenol, 4,4'-DDD, beta-BHC, Dieldrin, gamma-BHC, Heptachlor Epoxide	NA	- -
		Dermal Contact	1E-04	- -	Pentachlorophenol, 4,4'-DDD, alpha-BHC,	Aldrin, beta-BHC, Dieldrin, Gamma-BHC, Arsenic	NA	- -
		Inhalation	3E-05	- -	Vinyl Chloride	1,2-Dibromo-3-Chloropropane, Tetrachloroethene	NA	- -
		Total	1E-02	Arsenic	Vinyl Chloride, Pentachlorophenol, 4,4'-DDD, Aldrin, alpha-BHC, gamma-BHC	1,2-Dibromo-3-Chloropropane, Benzene, Tetrachloroethene, Dieldrin, gamma-BHC, Heptachlor Epoxide	NA	- -
		Total All Media	1E-02				NA	

Table 7-21
Chemicals Retained as Chemicals of Concern

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical of Concern[1]	Impact on Human Receptors
Surface/Subsurface Soil	
Benzo(a)pyrene Equivalents	Occupation Workers ILCR = 3E-6 Child Residents ILCR = 7E-6 Adult Residents ILCR = 3E-6 Lifelong Residents ILCR = 1E-5
4,4'-DDD	Child Residents ILCR = 5E-6 Adult Residents ILCR = 2E-6 Lifelong Residents ILCR = 8E-6
4,4'-DDE	Child Residents ILCR = 3E-6 Adult Residents ILCR = 2E-6 Lifelong Residents ILCR = 5E-6
4,4'-DDT	Occupation Workers ILCR = 2E-5 Adolescent Trespassers ILCR = 4E-6 Adult Trespassers ILCR = 2E-6 Child Residents ILCR = 7E-5 Adult Residents ILCR = 3E-5 Lifelong Residents ILCR = 9E-5
alpha-BHC	Child Residents ILCR = 2E-6 Lifelong Residents ILCR = 3E-6
alpha-Chlordane	Child Residents ILCR = 2E-6 Lifelong Residents ILCR = 2E-6
Dieldrin	Occupation Workers ILCR = 5E-6 Child Residents ILCR = 2E-5 Adult Residents ILCR = 9E-6 Lifelong Residents ILCR = 3E-5
gamma-Chlordane	Child Residents ILCR = 2E-6 Lifelong Residents ILCR = 2E-6
Heptachlor	Lifelong Residents ILCR = 2E-6
Heptachlor Epoxide	Child Residents ILCR = 2E-6 Lifelong Residents ILCR = 3E-6
Arsenic	Occupation Workers ILCR = 5E-6 Child Residents ILCR = 2E-5 Adult Residents ILCR = 1E-5 Lifelong Residents ILCR = 3E-5
Groundwater - Direct Contact	
1,2-Dibromo-3-Chloropropane	Child Resident ILCR = 3E-6 Adult Resident ILCR = 4E-6 Lifelong Resident ILCR = 7E-6
Benzene	Lifelong Resident ILCR = 3E-6
cis-1,2-Dichloroethene	Child Resident HI = 2
Tetrachloroethene	Child Resident ILCR = 6E-6 Adult Resident ILCR = 8E-6 Lifelong Resident ILCR = 1E-5
Vinyl Chloride	Child Resident ILCR = 2E-5 Adult Resident ILCR = 2E-5 Lifelong Resident ILCR = 3E-5
Pentachlorophenol	Child Resident ILCR = 6E-6 Adult Resident ILCR = 1E-5 Lifelong Resident ILCR = 2E-5
4,4'-DDD	Child Resident ILCR = 1E-5 Adult Resident ILCR = 2E-5 Lifelong Resident ILCR = 3E-5

Table 7-21
Chemicals Retained as Chemicals of Concern

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical of Concern[(1)]	Impact on Human Receptors
Groundwater - Direct Contact	
Aldrin	Child Resident ILCR = 5E-5 Child Resident HI = 1 Adult Resident ILCR = 6E-5 Lifelong Resident ILCR = 1E-4
alpha-BHC	Child Resident ILCR = 3E-5 Adult Resident ILCR = 5E-5 Lifelong Resident ILCR = 8E-5
beta-BHC	Child Resident ILCR = 5E-6 Adult Resident ILCR = 7E-6 Lifelong Resident ILCR = 1E-5
delta-BHC	Child Resident HI = 0.3
Dieldrin	Child Resident ILCR = 4E-6 Adult Resident ILCR = 6E-6 Lifelong Resident ILCR = 1E-5
gamma-BHC	Child Resident ILCR = 9E-6 Child Resident HI = 0.3 Adult Resident ILCR = 1E-5 Lifelong Resident ILCR = 2E-5
gamma-Chlordane	Lifelong Resident ILCR = 2E-5
Heptachlor Epoxide	Child Resident ILCR = 2E-6 Child Resident HI = 0.2 Adult Resident ILCR = 3E-6 Lifelong Resident ILCR = 5E-6
Arsenic	Child Resident ILCR = 6E-3 Child Resident HI = 143 Adult Resident ILCR = 6E-6 Adult Resident HI = 41 Lifelong Resident ILCR = 1E-2

HQ = Hazard Quotient
ILCR = Incremental Lifetime Cancer Risk
(1) - Any carcinogenic chemical contributing to an ICR greater than 1.0E-6 or any non-carcinogenic chemical contributing to target organ hazard indices (HI) greater than 1.0.

7.4.3.1 Non-carcinogenic Risks

HIs for exposures to soil by all of the evaluated receptor groups with the exception of child residents were less than unity indicating that adverse non-carcinogenic effects are not anticipated for these receptors under the defined exposure conditions.

The HI for child residents (HI = 6) exposed to surface/subsurface soil exceeded the acceptable level of 1. 4,4'-DDT (HI = 5) was the major contributor to the HI for the child resident exposed to surface/subsurface soil.

HIs for domestic use of groundwater by child residents (HI = 148) and adult residents (HI = 43) exceeded the acceptable level of 1. Aldrin (HQ = 1), cis-1,2-DCE (HQ = 2), delta-BHC (HQ = 0.3), gamma-BHC (HQ = 0.3), heptachlor epoxide (HQ = 0.2), and arsenic (HQ = 143) were the major contributors to the HI for the child resident. Arsenic (HQ = 41) was the major contributor to the HI for the adult resident.

The Johnson and Ettinger volatilization model was used to estimate risks from exposures from vapor intrusion. The HI for residents exposed to COPCs that may volatilize from groundwater and migrate into indoor air was less than unity indicating that adverse non-carcinogenic effects are not anticipated for residents under the defined exposure conditions.

7.4.3.2 Carcinogenic Risks

Incremental lifetime cancer risks (ILCRs) for exposures to soil by construction workers, maintenance workers, adolescent trespassers, adult trespassers, adult residents were within than USEPA's target risk range of 10^{-4} to 10^{-6}, but exceeded FDEP's level of concern of 1×10^{-6}. The ILCR for child residents (ILCR = 1×10^{-4}) exposed to surface/subsurface soil was equal to the upper bound of USEPA's target risk, but exceeded the FDEP level of concern. The ILCR for lifetime residents (ILCR = 2×10^{-4}) exposed to surface/subsurface soil exceeded the USEPA target risk range and the FDEP level of concern. 4,4'-DDT, dieldrin, and arsenic were the major contributors the ILCRs.

ILCRs for domestic use of groundwater by child residents (ILCR = 6×10^{-3}), adult residents (6×10^{-3}), and lifelong residents (1×10^{-2}) exceeded USEPA's target risk range and FDEP's level of concern. Arsenic, vinyl chloride, aldrin, and alpha-BHC were the major contributors to the ILCRs.

The Johnson and Ettinger volatilization model was used to estimate risks from exposures from vapor intrusion. The ILCRs for residents (ILCR = 3×10^{-7}) exposed to COPCs that may volatilize from groundwater and migrate into indoor air were less USEPA's target risk range and FDEP's level of concern.

7.5 UNCERTAINTY ANALYSIS

There is uncertainty associated with all aspects of the baseline HHRA presented in this section. A summary of the uncertainties, including a discussion of how they may affect the final risk numbers, is provided in this section.

Uncertainty in the selection of COPCs is related to the current status of the predictive databases, the grouping of samples, and the procedures used to include or exclude constituents as COPCs. Uncertainty associated with the exposure assessment includes the values used as input variables for a given intake route/scenario, the assumptions made to determine EPCs, and the predictions regarding future land use and population characteristics. Uncertainty in the toxicity assessment includes the quality of the existing toxicity data needed to support dose-response relationships and the weight-of-evidence used for determining the carcinogenicity of COPCs. Uncertainty in risk characterization includes that associated with exposure to multiple chemicals and the cumulative uncertainty from combining conservative assumptions made in earlier activities.

While there are various sources of uncertainty, as described above, the direction of uncertainty can be influenced by the assumptions made throughout the risk assessment, including selection of COPCs and selection of values for dose-response relationships. Throughout the entire risk assessment, assumptions which consider safety factors are made so that the final calculated risks are overestimated.

Generally, risk assessments carry two types of uncertainty: measurement and informational uncertainty. Measurement uncertainty refers to the usual variance that accompanies scientific measurements. For example, this type of uncertainty is associated with analytical data collected for each site. The risk assessment reflects the accumulated variances of the individual values used.

Informational uncertainty stems from inadequate availability of information needed to complete the toxicity and exposure assessments. Often, this gap is significant, such as the absence of information on the effects of human exposure to low doses of a chemical, on the biological mechanism of action of a chemical, or the behavior of a chemical in soil.

Once the risk assessment is complete, the results must be reviewed and evaluated to identify the type and magnitude of uncertainty involved. Reliance on results from a risk assessment without consideration of uncertainties, limitations, and assumptions inherent in the process can be misleading. For example, to account for uncertainties in the development of exposure assumptions, conservative estimates must be made to ensure that the particular assumptions made are protective of sensitive subpopulations or the maximum exposed individuals. If a number of conservative assumptions are combined in an exposure model, the resulting calculations can propagate the uncertainties associated with those assumptions,

thereby producing a much larger uncertainty for the final results. This uncertainty is biased toward over-predicting both carcinogenic and non-carcinogenic risks. Thus, both the results of the risk assessment and the uncertainties associated with those results must be considered when making risk management decisions.

This interpretation is especially relevant when the risks exceed the point-of-departure for defining "acceptable" risk. For example, when risks calculated using a high degree of uncertainty are below an "acceptable" risk level (i.e., 1×10^{-6}), the interpretation of no significant risk is typically straightforward. However, when risks calculated using a high degree of uncertainty are above an "acceptable" risk level (i.e., 1×10^{-4}), a conclusion can be difficult unless uncertainty is considered.

7.5.1 Uncertainty in Selection of COPCs

There is a minor amount of uncertainty associated with the selection of COPCs that may impact the numerical risk estimates presented in Section 7.4, Risk Characterization. The most significant issues related to uncertainty in COPC selection for PSC 47 are the screening levels used, and the absence of screening levels for a few chemicals detected in the site media. A brief discussion of each of these issues is provided in the remainder of this section.

COPC Screening Levels

The use of predetermined screening values based on conservative land use scenarios (i.e., residential land use for soil and ingestion/inhalation for groundwater) in combination with the use of risk-based screening values corresponding to a 1×10^{-6} ICR and a 0.1 HI, should ensure that the significant contributors to risk from a site are evaluated. The elimination of chemicals that are present at concentrations that correspond to a less than 1×10^{-6} ICR and less than 0.1 HI should not affect the final conclusions of the risk assessment since these chemicals are not expected to cause a potential health concern.

7.5.1.1 Chemicals Without Established Screening Levels

Direct Contact Criteria

Risk-based screening levels are currently not available for some constituents (e.g., benzo(g,h,i)perylene, phenanthrene, alpha and gamma-chlordane, delta-BHC, endosulfan sulfate, endrin aldehyde, and endrin ketone). Therefore, surrogates were selected for these chemicals based on similar chemical structures. In the COPC screening, pyrene was selected as a surrogate for benzo(g,h,i)perylene and phenanthrene, chlordane was selected as a surrogate for alpha and gamma-chlordane, endosulfan was selected as a surrogate for endosulfan sulfate, and endrin was selected as a surrogate for endrin aldehyde and endrin ketone. Applying toxicity values of one compound to another adds to the uncertainty in the risk assessment both in regard to the selection of COPCs and the subsequently calculated risks.

Migration Criteria

A number of constituents do not have USEPA SSLs for the migration from soil to air pathway. This uncertainty is expected to be small because potential risks associated with exposures via inhalation are typically orders of magnitude lower than those associated with exposures via incidental ingestion and dermal contact with soil. A comparison of the screening criteria for direct contact exposures with the screening criteria for migration from soil to air shows that the direct contact screening criteria are at least an order of magnitude lower than the migration screening criteria for the same compound. If there are unacceptable risks resulting from inhalation exposures, then usually there are unacceptable risks from exposures via incidental ingestion and dermal contact.

There were no USEPA SSLs for migration of chemicals from soil to groundwater for several chemicals. The uncertainty associated with the absence of these criteria is small. An exceedance of the SSLs does not mean that a chemical will definitely migrate from soil to groundwater, only that the potential for migration from soil to groundwater exists. Groundwater samples were collected at the site, and therefore real data is available to indicate whether chemicals have migrated from soil to groundwater at the site.

7.5.2 Uncertainty in the Exposure Assessment

Uncertainty in the exposure assessment includes the determination of land use conditions, the selection of receptors and scenarios, and the selection of exposure parameters. Uncertainties associated with the exposure assessment are presented in this section.

Land Use

The current land use patterns at the site are well established, thereby reducing the uncertainty associated with land use assumptions. The site is currently not used for any purpose and there are no definite plans for the future use of the site.

Exposure Routes and Receptor Identification

An attempt was made to simplify the various receptor groups and exposure routes of potential concern in this report. The uncertainty associated with this approach is minimal since exposure routes and potential receptors are considered to be well-defined, based on the limited land use observed at the site. In addition, exposure routes eliminated from further evaluation were excluded only after a qualitative evaluation of potential exposure.

Exposure Parameters

Each exposure factor selected for use in the risk assessment has some associated uncertainty. Generally, exposure factors are based on surveys of physiological and lifestyle profiles across the United States. The attributes and activities studied in these surveys generally have a broad distribution. To

avoid underestimation of exposure, the USEPA exposure assessment guidelines for the RME receptor were used to calculate COPC intake. These guidelines generally suggest the 95th percentile value for most parameters. Therefore, the selected values for the RME receptor represent the upper bound of the observed or expected habits of the majority of the population.

Generally, the uncertainty can be assessed quantitatively for a number of assumptions made in determining factors for calculating exposures and intakes. Many of these parameters were determined from statistical analyses on human population characteristics. Often the database used to summarize a particular exposure parameter (i.e., body weight) is quite large. Consequently, the values chosen for such variables in the RME scenario have low uncertainty. For many parameters for which limited information exists (i.e., dermal absorption of organic chemicals from soil), there is greater uncertainty. However, there are often sufficient data to estimate these parameters with low uncertainty.

Many of the quantities used to calculate exposures and risks in this report are selected from a distribution of possible values. For the RME scenario, the value representing the 95th percentile is generally selected for each parameter to ensure that the assessment bounds the actual risks from a postulated exposure. This risk number is used in risk management decisions, but does not indicate what a more average or typical exposure might be, or what risk range might be expected for individuals in the exposed population.

7.5.3 Uncertainty in the Toxicological Evaluation

Uncertainties associated with the toxicity assessment (determination of RfDs and CSFs and use of available criteria) are presented in this section.

Derivation of Toxicity Criteria

Uncertainty associated with the toxicity assessment is associated with hazard assessment and dose-response evaluations for the COPCs. The hazard assessment deals with characterizing the nature and strength of the evidence of causation, or the likelihood that a chemical that induces adverse effects in animals will also induce adverse effects in humans. Hazard assessment of carcinogenicity is evaluated as a weight-of-evidence determination, using the USEPA methods. Positive animal cancer test data suggest that humans contain tissue(s) that may also manifest a carcinogenic response. However, the animal data cannot necessarily be used to predict the target tissue in humans. In the hazard assessment of non-cancer effects, however, positive animal data suggest the nature of the effects (i.e., the target tissues and type of effects) anticipated in humans.

Uncertainty in hazard assessment arises from the nature and quality of the animal and human data. Uncertainty is reduced:

- When similar effects are observed across species, strain, sex, and exposure route.
- When the magnitude of the response is clearly dose-related.
- When pharmacokinetic data indicate a similar fate in humans and animals.
- When postulated mechanisms of toxicity are similar for humans and animals.
- When the COC is structurally similar to other chemicals for which the toxicity is more completely characterized.

Uncertainty in the dose-response evaluation includes the determination of a CSF for the carcinogenic assessment and derivation of an RfD for the non-carcinogenic assessment. Uncertainty is introduced from interspecies (animal to human) extrapolation, which, in the absence of quantitative pharmacokinetic or mechanistic data, is usually based on consideration of interspecies differences in basal metabolic rate. Uncertainty also results from intraspecies variation. Most toxicity experiments are performed with animals that are very similar in age and genotype, so that intragroup biological variation is minimal, but the human population of concern may reflect a great deal of heterogeneity including unusual sensitivity or tolerance to the COPC. Even toxicity data from human occupational exposure reflect a bias, because only those individuals sufficiently healthy to attend work regularly (the "healthy worker effect") and those not unusually sensitive to the chemical are likely to be occupationally exposed. Finally, uncertainty arises from the quality of the key study from which the quantitative estimate is derived and the database. For cancer effects, the uncertainty associated with dose-response factors is mitigated by assuming the 95 percent upper bound for the slope factor. Another source of uncertainty in carcinogenic assessment is the method by which data from high doses in animal studies are extrapolated to the dose range expected for environmentally exposed humans. The linearized multistage model, which is used in nearly all quantitative estimations of human risk from animal data, is based on a nonthreshold assumption of carcinogenesis. There is evidence to suggest, however, that epigenetic carcinogens, as well as many genotoxic carcinogens, have a threshold below which they are non-carcinogenic (Williams and Weisburger, 1991); therefore, the use of the linearized multistage model is conservative for chemicals that exhibit a threshold for carcinogenicity.

For non-cancer effects, additional uncertainty factors may be applied in the derivation of the RfD to mitigate poor quality of the key study or gaps in the data base. Additional uncertainty for non-cancer effects arises from the use of an effect level in the estimation of an RfD, because this estimation is predicated on the assumption of a threshold below which adverse effects are not expected. Therefore, an uncertainty factor is usually applied to estimate a no-effect level. Additional uncertainty arises in estimation of an RfD for chronic exposure from less-than-chronic data. Unless empirical data indicate that effects do not worsen with increasing duration of exposure, an additional uncertainty factor is applied to the no-effect level in the less-than-chronic study. Uncertainty in the derivation of RfDs is mitigated by

the use of uncertainty and modifying factors that normally range between 3 and 10. The resulting combination of uncertainty and modifying factors may reach 1,000 or more.

Uncertainty Associated with Toxicity Criteria for Trichloroethene

As noted in Section 7.3.3 toxicity criteria (i.e., RfDs, CSFs) for TCE are not currently published on the USEPA's IRIS database or in HEAST. The toxicity criteria developed by the California EPA (CA EPA, 2002) were used for TCE in this risk assessment. USEPA has published draft toxicity values for TCE in a recent technical document (USEPA, 2001b). The draft toxicity criteria are currently undergoing peer review. A range of CSFs [0.02 – 0.4 $(mg/kg/day)^{-1}$], as opposed to a single recommended value, is presented in the recent guidance. The draft CSFs are 2 to 30 times higher than the CA EPA CSF [0.013 $(mg/kg/day^{-1}$]. The draft oral RfD is 0.0004 mg/kg/day as compared to the CA EPA RfD of 0.5 mg/kg/day. Trichloroethene was identified as a COPC in groundwater. Risks for exposures to TCE in groundwater were within acceptable levels using the CA EPA toxicity values. Risks would still be within the USEPA acceptable levels if the draft USEPA toxicity criteria had been used in the calculations, but risks would exceed the FDEP level of concern.

7.5.4 Uncertainty in the Risk Characterization

Uncertainty in risk characterization results primarily from assumptions made regarding additivity of effects from exposure to multiple COPCs from various exposure routes. High uncertainty exists when summing cancer risks for several substances across different exposure pathways. This assumes that each substance has a similar effect and/or mode of action. Often compounds affect different organs, have different mechanisms of action, and differ in their fate in the body, so additivity may not be an appropriate assumption; however, the assumption of additivity is made to provide a conservative estimate of risk.

Finally, the risk characterization does not consider antagonistic or synergistic effects. Little or no information is available to determine the potential for antagonism or synergism for the COPCs. Therefore, this uncertainty cannot be discussed for its impact on the risk assessment, since it may either underestimate or overestimate potential human health risk.

7.6 REMEDIAL GOAL OPTIONS

In accordance with USEPA Region IV guidance, Remedial Goal Options (RGOs) were developed for those media with estimated lifetime cancer risks greater than 1×10^{-4} and total HI greater than 1.0. In addition, RGOs were also developed for media with cancer risks above the FDEP target risk level of 1×10^{-6}. The chemicals with ICRs and HIs exceeding USEPA and FDEP target levels for which RGOs were developed are summarized in Table 7-21.

RGOs for direct contact with soil and groundwater were developed according to guidance provided in the USEPA Region IV Human Health Risk Assessment Bulletins. The RGOs were calculated using the following equation:

RGO[chemical i] = EPC[chemical i] x Target Risk/Calculated Risk[chemical i]

Where:

RGO(chemical i) = the chemical-specific remediation goal option.

EPC(chemical i) = the exposure point concentration for the chemical used in risk assessment calculations.

Target Risk = Target risk for carcinogens or the Target HQs for non-carcinogens.

Calculated Risk(chemical i) = the total risk calculated for a specific chemical in the risk assessment.

RGOs for the migration of chemicals that may volatilize from groundwater and migrate into indoor air were calculated using Johnson and Ettinger volatilization model (USEPA, 2003). In accordance to the USEPA Region IV guidance, RGOs are based on target cancer risks of 1×10^{-6}, 1×10^{-5}, and 1×10^{-4} and the target HQs of 0.1, 1, and 3. The chemical-specific RGOs for occupational workers, child, adult, and lifelong residents are presented in Tables 7-22 and 7-23.

7.7 SUMMARY OF HHRA

The baseline HHRA for PSC 47 at the NAS Jacksonville was performed to characterize the potential risks to likely human receptors under current and potential future land use. Potential receptors under current land use are maintenance workers and adolescent and adult trespassers. Potential receptors under future land use are construction workers, occupational workers and child and adult residents. Although future land use is likely to be the same as current land use, potential future residents were evaluated in the baseline HHRA, primarily for decision-making purposes. The COCs for PSC 47 at the NAS Jacksonville are summarized in Table 7-21.

Table 7-22
Remedial Goal Options for Soil

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

OCCUPATIONAL WORKER								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA IX
Chemical	10^{-6} (mg/kg)	10^{-5} (mg/kg)	10^{-4} (mg/kg)	0.1 (mg/kg)	1 (mg/kg)	3 (mg/kg)	SCTL (mg/kg)	PRG (mg/kg)
Benzo(a)pyrene Equivalents	0.2	2.1	21	NA	NA	NA	0.1	0.21
4,4'-DDT	7.0	70	702	43	427	1280	2.9	7
Dieldrin	0.1	1.1	11	3.1	31	92	0.06	0.11

ADOLESCENT TRESPASSERS								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA IX
Chemical	10^{-6} (mg/kg)	10^{-5} (mg/kg)	10^{-4} (mg/kg)	0.1 (mg/kg)	1 (mg/kg)	3 (mg/kg)	SCTL (mg/kg)	PRG (mg/kg)
4,4'-DDT	28.3	282.5	2825	69	686	2059	NA	NA

ADULT TRESPASSERS								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA IX
Chemical	10^{-6} (mg/kg)	10^{-5} (mg/kg)	10^{-4} (mg/kg)	0.1 (mg/kg)	1 (mg/kg)	3 (mg/kg)	SCTL (mg/kg)	PRG (mg/kg)
4,4'-DDT	52.2	521.9	5219	254	2535	7606	NA	NA

CHILD RESIDENT								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA IX
Chemical	10^{-6} (mg/kg)	10^{-5} (mg/kg)	10^{-4} (mg/kg)	0.1 (mg/kg)	1 (mg/kg)	3 (mg/kg)	SCTL (mg/kg)	PRG (mg/kg)
Benzo(a)pyrene Equivalents	0.092	0.9	9.2	NA	NA	NA	0.1	0.062
4,4'-DDD	3.51	35.1	350.7	NA	NA	NA	4.2	2.4
4,4'-DDE	2.48	24.8	247.6	NA	NA	NA	2.9	1.7
4,4'-DDT	2.48	24.8	247.6	3.61	36.1	108	2.9	1.7
alpha-BHC	0.113	1.1	11.3	NA	NA	NA	0.1	0.09
alpha-Chlordane	2.34	23.4	234.4	3.52	35.2	105	2.8	1.6
Dieldrin	0.045	0.4	4.5	0.306	3.06	9.17	0.06	0.03
gamma-Chlordane	2.34	23.4	234.4	3.52	35.2	105	2.8	1.6
Heptachlor Epoxide	0.078	0.8	7.8	0.079	0.794	2.38	0.1	0.053
Arsenic	0.561	5.6	56.1	2.16	21.6	64.9	2.1	0.39

ADULT RESIDENT								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA IX
Chemical	10^{-6} (mg/kg)	10^{-5} (mg/kg)	10^{-4} (mg/kg)	0.1 (mg/kg)	1 (mg/kg)	3 (mg/kg)	SCTL (mg/kg)	PRG (mg/kg)
Benzo(a)pyrene Equivalents	0.192	1.92	19.2	NA	NA	NA	0.1	0.062
4,4'-DDD	7.92	79.2	792	NA	NA	NA	4.2	2.4
4,4'-DDE	5.59	55.9	559	NA	NA	NA	2.9	1.7
4,4'-DDT	5.59	55.9	559	32.6	326	978	2.9	1.7
Dieldrin	0.095	0.951	9.51	2.61	26.1	78.3	0.06	0.03
Arsenic	1.27	12.7	127	19.6	196	587	2.1	0.39

Table 7-22
Remedial Goal Options for Soil

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

LIFELONG RESIDENT								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA IX
Chemical	10^{-6} (mg/kg)	10^{-5} (mg/kg)	10^{-4} (mg/kg)	0.1 (mg/kg)	1 (mg/kg)	3 (mg/kg)	SCTL (mg/kg)	PRG (mg/kg)
Benzo(a)pyrene Equivalents	0.062	0.620	6.20	NA	NA	NA	0.1	0.062
4,4'-DDD	2.43	24.3	243	NA	NA	NA	4.2	2.4
4,4'-DDE	1.72	17.2	172	NA	NA	NA	2.9	1.7
4,4'-DDT	1.72	17.2	172	NA	NA	NA	2.9	1.7
alpha-BHC	0.077	0.771	7.71	NA	NA	NA	0.1	0.09
alpha-Chlordane	1.62	16.2	162	NA	NA	NA	2.8	1.6
Dieldrin	0.030	0.303	3.03	NA	NA	NA	0.06	0.03
gamma-Chlordane	1.62	16.2	162	NA	NA	NA	2.8	1.6
Heptachlor	0.108	1.08	10.8	NA	NA	NA	0.2	0.11
Heptachlor Epoxide	0.053	0.533	5.33	NA	NA	NA	0.1	0.053
Arsenic	0.389	3.89	38.9	NA	NA	NA	2.1	0.39

Notes:
NA = Not Applicable no toxicity criteria available.
SCTL = Soil Cleanup Target Level
PRG = Preliminary Remediation Goal

Table 7-23
Remedial Goal Options for Groundwater

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

CHILD RESIDENT - DIRECT CONTACT								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA
Chemical	10^{-6} (ug/L)	10^{-5} (ug/L)	10^{-4} (ug/L)	0.1 (ug/L)	1 (ug/L)	3 (ug/L)	GCTL (ug/L)	MCL (ug/L)
1,2-Dibromo-3-Chloropropane	0.07	0.73	7.3	0.10	1.0	3.0	200	NA
cis-1,2-Dichloroethene	NA	NA	NA	5.1	51	153	70	70
Tetrachloroethene	0.10	1.01	10	4.7	47	141	3	5
Vinyl Chloride	0.04	0.40	4.0	1.5	15	46	1	2
Pentachlorophenol	0.18	1.84	18	5.7	57	170	1	1
4,4'-DDD	0.14	1.41	14	NA	NA	NA	0.1	NA
Aldrin	0.007	0.07	0.69	0.03	0.30	0.91	0.002	NA
alpha-BHC	0.01	0.15	1.5	NA	NA	NA	0.006	NA
alpha-Chlordane	0.19	1.88	19	0.28	2.8	8.5	2	2
beta-BHC	0.05	0.52	5.2	NA	NA	NA	0.02	NA
delta-BHC	NA	NA	NA	0.24	2.4	7.2	2.1	NA
Dieldrin	0.006	0.06	0.60	0.04	0.41	1.2	0.002	NA
gamma-BHC	0.08	0.82	8.2	0.27	2.7	8.2	0.2	0.2
Heptachlor Epoxide	0.01	0.11	1.1	0.01	0.12	0.35	0.2	0.2
Arsenic	0.08	0.82	8.2	0.31	3.1	9.4	10	10

ADULT RESIDENT - DIRECT CONTACT								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA
Chemical	10^{-6} (ug/L)	10^{-5} (ug/L)	10^{-4} (ug/L)	0.1 (ug/L)	1 (ug/L)	3 (ug/L)	GCTL (ug/L)	MCL (ug/L)
1,2-Dibromo-3-Chloropropane	0.06	0.63	6.3	0.34	3.4	10	200	NA
Tetrachloroethene	0.08	0.82	8.2	15	152	457	3	5
Vinyl Chloride	0.03	0.35	3.5	5.4	54	162	1	2
Pentachlorophenol	0.10	0.98	9.8	12	121	364	1	1
4,4'-DDD	0.08	0.79	7.9	NA	NA	NA	0.1	NA
Aldrin	0.006	0.06	0.59	0.10	1.0	3.1	0.002	NA
alpha-BHC	0.01	0.11	1.1	NA	NA	NA	0.006	NA
beta-BHC	0.04	0.39	3.9	NA	NA	NA	0.02	NA
Dieldrin	0.005	0.05	0.45	0.12	1.2	3.7	0.005	NA
gamma-BHC	0.07	0.65	6.5	0.87	8.7	26	0.2	0.2
Heptachlor Epoxide	0.009	0.09	0.89	0.04	0.36	1.1	0.2	0.2
Arsenic	0.07	0.71	7.1	1.1	11	33	10	10

LIFELONG RESIDENT - DIRECT CONTACT								
	Target Cancer Risk Level			Target Hazard Index			FDEP	USEPA
Chemical	10^{-6} (ug/L)	10^{-5} (ug/L)	10^{-4} (ug/L)	0.1 (ug/L)	1 (ug/L)	3 (ug/L)	GCTL (ug/L)	MCL (ug/L)
1,2-Dibromo-3-Chloropropane	0.03	0.34	3.4	NA	NA	NA	200	NA
Benzene	0.50	4.96	50	NA	NA	NA	1	5
Tetrachloroethene	0.05	0.45	4.5	NA	NA	NA	3	5
Vinyl Chloride	0.02	0.19	1.9	NA	NA	NA	1	2
Pentachlorophenol	0.06	0.64	6.4	NA	NA	NA	1	1
4,4'-DDD	0.05	0.51	5.1	NA	NA	NA	0.1	NA
Aldrin	0.003	0.03	0.32	NA	NA	NA	0.002	NA
alpha-BHC	0.006	0.06	0.63	NA	NA	NA	0.006	NA
beta-BHC	0.02	0.22	2.2	NA	NA	NA	0.02	NA
Dieldrin	0.003	0.03	0.26	NA	NA	NA	0.002	NA
gamma-BHC	0.04	0.36	3.6	NA	NA	NA	0.2	0.2
gamma-Chlordane	0.07	0.74	7.4	NA	NA	NA	2	2
Heptachlor Epoxide	0.005	0.05	0.50	NA	NA	NA	0.2	0.2
Arsenic	0.04	0.38	3.8	NA	NA	NA	10	10

Notes:
NA = Not Applicable no toxicity criteria available.
MCL = Maximum Contaminant Level
GCTL = Groundwater Cleanup Target Level

The list of COPCs for direct contact exposures at PSC 47 includes the following:

- Surface Soil - benzo(a)pyrene, dibenzo(a,h)anthracene, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-chlordane, dieldrin, gamma-chlordane, heptachlor, heptachlor epoxide, and arsenic.
- Subsurface Soil - 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, alpha-chlordane, beta-BHC, delta-BHC, dieldrin, gamma-BHC, gamma-chlordane, heptachlor, heptachlor epoxide, and arsenic.
- Groundwater - 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, 1,4-dichlorobenzene, benzene, chlorobenzene, chloroform, cis-1,2-DCE, ethylbenzene, isopropylbenzene, PCE, total xylenes, trans-1,2-DCE, TCE, vinyl chloride, 1,1-biphenyl, 2,4,5-trichlorophenol, 2,4-dichlorophenol, 2-methylnaphthalene, naphthalene, pentachlorophenol, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, alpha-BHC, alpha-chlordane, beta-BHC, delta-BHC, dieldrin, endrin ketone, gamma-BHC, gamma-chlordane, heptachlor, heptachlor epoxide, and arsenic.

The list of COPCs for migration from soil to groundwater includes the following:

- Surface Soil – 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, alpha-chlordane, beta-BHC, dieldrin, endrin, gamma-BHC, gamma-chlordane, heptachlor epoxide, and arsenic.
- Subsurface Soil - 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, alpha-chlordane, beta-BHC, dieldrin, gamma-BHC, gamma-chlordane, and arsenic

In addition, benzene, bromoform, cis-1,2-DCE, isopropylbenzene, TCE, vinyl chloride, naphthalene, aldrin, alpha-BHC, and gamma-BHC were identified as COPCs for the migration from groundwater to indoor air pathway.

HIs for exposures to soil by all of the evaluated receptor groups with the exception of child residents and residents exposed to COPCs that may volatilize from groundwater and migrate into indoor air were less than unity indicating that adverse non-carcinogenic effects are not anticipated for these receptors under the defined exposure conditions. The HI for child residents exposed to surface/subsurface soil exceeded the acceptable level of 1. 4,4'-DDT was the major contributor to the HI for the child resident exposed to surface/subsurface soil.

HIs for domestic use of groundwater by child residents and adult residents exceeded the acceptable level of 1. Aldrin, cis-1,2-DCE, delta-BHC, gamma-BHC, heptachlor epoxide, and arsenic were the major contributors to the HI for the child resident. Arsenic was the major contributor to the HI for the adult resident.

ILCRs for exposures to soil by construction workers, maintenance workers, and adult trespassers were compared with USEPA's and FDEP's target risk levels. ILCRs for construction workers, maintenance workers, adolescent trespassers, adult trespassers, adult residents were within USEPA's target risk range but exceeded FDEP's level of concern. The ILCR for child residents exposed to surface/subsurface soil was equal to the upper bound of USEPA's target risk but exceeded the FDEP level of concern. The ILCR for lifetime residents exposed to surface/subsurface soil exceeded the USEPA target risk range and the FDEP level of concern. 4,4'-DDT, dieldrin, and arsenic were the major contributors the ILCRs.

ILCRs for domestic use of groundwater by child residents, adult residents, and lifelong residents exceeded USEPA's target risk range and FDEP's level of concern. Arsenic, vinyl chloride, aldrin, and alpha-BHC were the major contributors to the ILCRs.

The Johnson and Ettinger volatilization model was used to estimate risks from exposures from vapor intrusion. The HIs and ILCRs for residents exposed to COPCs that may volatilize from groundwater and migrate into indoor air were less USEPA's target risk range and FDEP's level of concern.

8.0 ECOLOGICAL RISK ASSESSMENT

This screening-level ERA was conducted in accordance with USEPA ERA Guidance for Superfund (USEPA, 1997a), USEPA Amended Guidance on ERA at Military Bases (USEPA, 2000b), and the Navy Policy for Conducting ERAs (DON, 1999). The risk assessment for PSC 47 consists of Steps 1 through 3A of USEPA's 8-step ERA process. Steps 1 through 3A consist of the following:

Step 1	Screening-Level Problem Formulation and Ecological Effects Evaluation
Step 2	Screening-Level Exposure Estimate and Risk Calculation
Step 3A	Refinement of Preliminary COPCs

Section 8.1.1 provides the environmental setting for PSC 47. The fate and transport characteristics of the chemicals detected in soil are provided in Section 8.1.2. The ecotoxicity of site contaminants and potential ecological receptors are described in Section 8.1.3. Section 8.1.4 describes complete exposure pathways, while Section 8.1.5 provides assessment and measurement endpoints. Sections 8.2, 8.3, and 8.4 describe the ecological effects evaluation, exposure estimates, and risk characterization, respectively. Section 8.5 describes the refinement of preliminary COPCs. Uncertainties inherent with the ERA are discussed in Section 8.6. The summary and conclusions of this ERA are provided in Section 8.7.

8.1 SCREENING-LEVEL PROBLEM FORMULATION

8.1.1 Environmental Setting

PSC 47 comprises approximately 4.2 acres. Approximately one-half of the site consists of Building 536 (the Pesticide Shop), Building 937 (DVECC), other structures, and areas covered by concrete, asphalt, or gravel. The remainder of the site is covered by turf grass and maintained as lawn, with a narrow strip of oak and pine trees along the southern and western boundaries of the site. Recreational ball fields are located to the west and south of PSC 47. Child Street forms the east boundary of the site, and a golf course (Casa Linda Oaks) is located east of Child Street. Turf grass and a grove of oak trees are located immediately north of the site.

The site is relatively flat with a gentle slope to the east and southeast. Natural surface elevations range from slightly below 23 ft msl in the southeastern corner of the PSC to slightly above 24 ft msl in the southwestern, central, and north-central areas. Soil at PSC 47 consists of fine to medium sands.

There are no aquatic habitats in the vicinity of the site. A drainage ditch, dry except during and shortly after rain events, is present along the eastern boundary of the site parallel with Child Street. Because the ditch

is shallow and typically dry, it is vegetated with grasses that are mowed during lawn maintenance activities at the site. During rain events, a barely perceptible storm water flow southward in the ditch has been noted. There is a 30 ft by 40 ft shallow storm water retention pond approximately 400 ft north of the Pesticide Shop. The nearest other surface water bodies are Casa Linda Lake, located on the golf course approximately 1,700 ft east of the site, and an extensive marsh system along the Ortega River, approximately 3800 ft northwest of the site.

Ecological habitat at PSC 47 consists of a mowed grass, landscaped shrubbery, and a few scattered trees. Because of this, and since PSC 47 is located in a highly developed portion of NAS Jacksonville, the site provides habitat for few terrestrial species. Ecological receptors at PSC 47 are limited to species typically found in urban areas, such as various invertebrates (e.g., earthworms, insect larvae), birds, moles, mice, lizards, and presumably exotic rodents such as the black rat and house mouse. The narrow strip of trees along the south and west boundaries of the site, as well as the grove of trees north of the site, contain a dense understory of vines and shrubby vegetation. These areas provide more cover and food sources than the mowed grass at the site, and are utilized by more species. Cottontail rabbits, gray squirrels, shrews, opossums, raccoons, and snakes, for example, undoubtedly forage in these more densely vegetated areas, and would occasionally forage along the edges of PSC 47 near the tree line.

8.1.2 Contaminant Fate and Transport

Past activities at the Pesticide Shop and the DVECC included pesticide application training, storage and disposal of pesticides, and calibration and testing of pesticide application equipment. These activities have resulted in the contamination of soils with chlorinated pesticides, and to a lesser extent, VOCs and SVOCs. A detailed discussion of contaminant fate and transport was presented in Section 6. The discussion below is limited to a brief review of the fate and transport of contaminants at PSC 47 as related to contaminant migration pathways and ecological exposure.

Contaminant migration pathways applicable at this site include volatilization, erosion, and infiltration. Contaminants in soil could volatilize from surficial material. Since the site is essentially covered with structures, pavement, or turf grass, wind erosion is not a significant migration pathway. However, if surface soil is disturbed through activities such as excavation, soils could serve as a source for airborne transport of contaminants and soil contaminants could then be transported to downwind locations. Soil erosion due to storm water runoff is probably minimal at PSC 47 due to the essentially flat terrain and turf grass cover.

Infiltrating precipitation has resulted in the contamination of subsurface soil and groundwater at PSC 47. As explained in Section 8.1.4, however, PSC 47 groundwater does not seep into surface water. Therefore, the fate of contaminants in surface water is not discussed further in this section.

Chlorinated pesticides are highly persistent in the environment, and tend to tightly sorb to organic matter and be immobile in most soils. Nevertheless, chlorinated pesticides can eventually leach into groundwater, especially in soils with low organic carbon. Although organic carbon was not analyzed in soil samples from PSC 47, the sandy soils of northwest Florida are typically low in organic carbon content, which is presumably a major contributing factor in the migration of pesticides from soil into groundwater at the site. Degradation of chlorinated pesticides in PSC 47 soil would eventually occur through volatilization, photolysis, and aerobic and anaerobic degradation. Due to the lipophilicity of organochlorine pesticides, they can bioaccumulate in animals. These compounds generally bioconcentrate in lower trophic level organisms and can be transferred and magnified in higher trophic level organisms.

VOCs generally volatilize to the atmosphere from surface soil. VOCs in soil will dissolve in rain water to varying degrees and can be transported overland with runoff or into groundwater. As indicated earlier, however, the essentially flat terrain and turf grass cover at PSC 47 largely precludes the overland runoff migration pathway. Photolysis and hydrolysis are not significant mechanisms for VOC degradation. Aerobic biodegradation in soil and groundwater is significant, however, and anaerobic degradation can also occur in these media. VOCs do not bioaccumulate in ecological receptors.

SVOCs detected in PSC 47 surface soil consists of PAHs and phthalates. The fate and transport characteristics of PAHs are dependent on their molecular weights. Low molecular weight PAHs are more soluble and volatile, and therefore more mobile. They may volatilize and photolyze from soil and surface water, and they also may be biodegraded. High molecular weight PAHs tend to be immobile and insoluble, binding strongly to organic matter (reducing the potential for leaching to groundwater), and they are resistant to volatilization, photolysis, and biodegradation (Eisler, 2000). Upper tropic level organisms are primarily exposed to PAHs through diet, but most wildlife can metabolize and excrete PAHs. Food-chain transfer and biomagnification of PAHs is expected to be minimal. PAHs may be absorbed by plants but are expected to be translocated, metabolized, and potentially photodegraded. Accumulation within plants is likely to occur only in heavily polluted locations where uptake exceeds metabolism and degradation (Edwards, 1983).

Phthalates are relatively persistent in the environment. Although numerous studies have demonstrated that phthalates undergo biodegradation, this is a slow process in soil. Some microorganisms have been shown to excrete products that increase the solubility of phthalates and enhance their biodegradation (Gibbons and Alexander, 1989). Bis(2-ethylhexyl)phthalate and butyl benzyl phthalate are not expected to significantly volatilize and neither of these phthalates appreciably leach from soil into groundwater (Spectrum, 2003). Dimethyl phthalate is more likely to leach into groundwater (Spectrum, 2003), but was not detected in PSC 47 groundwater samples. Biomagnification of phthalates does not occur.

8.1.3 Ecotoxicity and Potential Receptors

Pesticides, VOCs, and SVOCs were detected in surface soil. As stated earlier, VOCs readily volatilize from soil. Therefore, their toxicity to ecological receptors is relatively low.

Organochlorine pesticides are reproductive and nervous system toxins. Although these compounds were used as insecticides, they are toxic to other animals as well. The target organ for acute exposures is the nervous system, while chronic exposures can affect the liver and endocrine systems of higher animals. Organochlorine pesticides are lipophilic and can be stored in the fat tissue of organisms such as birds and mammals. In birds of prey they can cause reproductive failure through eggshell thinning and disruption of egg-laying and nesting cycles (Amdur et al., 1991). These pesticides were developed to control insects on crops, and as a result, they are not very toxic to plants.

Few generalizations can be made about the ecotoxicity of PAHs because of the extreme variability in toxicity and physiochemical properties of PAHs. Adverse impacts to plants from PAHs, however, are rare (Eisler, 2000). In most animal species, PAHs are metabolized by a mixed-function oxidase enzyme system into intermediates that may be toxic, mutagenic, or carcinogenic to the host. Some invertebrate species cannot efficiently metabolize PAHs (Eisler, 2000), and PAHs can be chronically toxic to invertebrates, but overall, very little is known about the toxicological mechanisms of PAHs in invertebrates (Erstfield and Snow-Ashbrook, 1999). PAHs can bind to cellular macromolecules and thereby disrupt their function in higher level organisms such as mammals and birds. Biological macromolecules include polymers of carbohydrates (e.g., starch), amino acids (proteins), and nucleotides (e.g., DNA). The cellular functions of these polymers include structure, energy storage, energy transfer, material transport, and the storage and transmittal of genetic information. PAHs show little tendency to biomagnify in the food web (Eisler, 2000). USEPA Region IV considers the potential toxicity of PAHs via the terrestrial food web to be generally negligible unless PAHs are present at extremely high concentrations (i.e., percent levels: 10,000 mg/kg) in soil. Microbial metabolism is the major process for degradation of PAHs in soil (ATSDR, 1997).

In general, phthalates have a low acute toxicity to animals (Amdur et al., 1991). Chronic oral exposures, however, have been shown to result in liver toxicity in mammals. Ingested phthalates metabolize to monoesters in the gut and are subsequently absorbed. Following absorption, phthalates distribute primarily to the liver and kidneys and may, in some species, concentrate in the testes (Rhodes et al., 1986). Liver carcinogenesis has been observed (ATSDR, 1997). Many receptors are able to metabolize and excrete phthalate esters, so their ability to bioaccumulate varies among species. Detailed ecotoxicity data for birds, plants, and invertebrates plants could not be located.

8.1.4 Complete Exposure Pathways

Soil invertebrates are exposed to soil contaminants at PSC 47 through ingestion and dermal contact. Higher trophic level animals such as birds and small mammals will be exposed to site-related contamination through ingestion of contaminated food items. These animals can also incidentally ingest contaminants in soil while grooming fur, preening feathers, digging, grazing close to the soil, or feeding on items to which soil has adhered. Absorption of contaminants from the gastrointestinal tract is the primary pathway of intake for terrestrial receptors. Exposure to contaminants in the soil through dermal contact could occur but is unlikely to represent a major exposure pathway because fur, feathers, and chitinous exoskeletons minimize transfer of contaminants across dermal tissue. Higher trophic level animals at the site are limited to species typically found in urban areas, such as invertebrates, song birds, moles, mice, lizards, and exotic rodents such as the black rat and house mouse (see Section 8.1.1). Additional species such as rabbits, gray squirrels, shrews, opossums, raccoons, and snakes undoubtedly forage in areas of more dense vegetation near the site, and would occasionally be expected to forage along the periphery of the site.

The airborne transport of dust is a negligible pathway for terrestrial animals because the area is covered by impermeable surfaces or vegetation. Similarly, the inhalation pathway is not significant.

Terrestrial vegetation could be exposed to contaminants via contact with soil and subsequent root translocation. Aerial deposition is a negligible pathway for plants and animals at PSC 47 because the site is largely covered by vegetation or impermeable surfaces, reducing the amount of bare soil and fugitive dust.

With the exception of the drainage ditch (swale) along Child Street, there are no surface water bodies at the site. The ditch is dry except during and shortly after rain events. The infrequent existence of water in the ditch, and its location along a major public thoroughfare, results in an essentially incomplete surface water exposure pathway.

Extensive groundwater sampling has been conducted at PSC 47 during the past several years. As discussed in Section 5, data indicate that the groundwater flow at the site is toward the northwest. This conclusion is substantiated by flow models generated by the USGS (Davis *et al*, 1996). The nearest surface water body in the direction of groundwater flow is an extensive marsh system along the Ortega River, approximately 3,800 ft from the site, although a drainage ditch located over 1,000 ft northeast of the site may receive groundwater. The ditch ultimately feeds the Ortega River. The Ortega River itself is 5,000 ft from the site. Groundwater beneath PSC 47 does not have an outlet into surface water in any ditches; groundwater seepage into ditches would be evident by the presence of surface water in the ditches, which is not the case. Furthermore, PSC 47 groundwater data indicate that there has been very

little downgradient movement of chemicals in groundwater from contaminated areas at the site. Given the 3800-ft distance to the marshes, and the essentially absent downgradient movement of the plume of contaminated groundwater at the site (even without considering the inevitable attenuation and dilution that would occur in traveling that distance), the groundwater-to-surface water pathway is incomplete at PSC 47.

A complete exposure pathway has three components: a source of contaminants that can be released to the environment; a route of contaminant transport through an environmental medium; and an exposure or contact point for an ecological receptor. As explained in Step 1 of USEPA's ERA guidance (USEPA, 1997), if an exposure pathway is not complete, that exposure pathway does not need to be evaluated. This is the case for groundwater at PSC 47, and groundwater contaminants will not be evaluated in this ERA.

In summary, complete exposure pathways and routes of entry into biota at PSC 47 consist of

- Direct contact with soil
- Ingestion of soil
- Ingestion of contaminated food items

8.1.5 Preliminary Assessment and Measurement Endpoints

USEPA Region IV has specified that assessment endpoints for the screening-level assessment should be broad and generic. For the screening level assessment, the preliminary assessment endpoint is the protection of terrestrial biota from adverse effects of chemicals on their growth, survival, and reproduction. Measurement endpoints represent the assessment endpoints chosen for a site, and are measures of biological effects (USEPA, 1997a). The preliminary measurement endpoints were chemical concentrations in surface soil that are associated with no adverse effects on growth, survival, and reproduction of terrestrial organisms. The measurement endpoints are represented by USEPA Region IV ecological screening values (ESVs) for surface soil.

The USEPA Region IV ESVs for surface soil are based on conservative endpoints and sensitive ecological effects data, and thus, the screening values represent chemical concentrations associated with a low probability of unacceptable risks to ecological receptors. For this reason, USEPA Region IV considers their soil ESVs to be protective of terrestrial invertebrates and plants as well as upper level receptors such as birds and mammals. In the screening level ERA, therefore, a distinction is not made between measurement endpoints associated with direct toxicity to invertebrates and plants versus measurement endpoints associated with food chain effects.

8.2 SCREENING-LEVEL ECOLOGICAL EFFECTS EVALUATION

For the screening level ERA, maximum concentrations of chemicals detected in surface soil collected during Phases I and II were compared to USEPA Region IV ESVs (USEPA, 2001b). If the maximum concentration was less than the ESV, the chemical was eliminated from further consideration. If the maximum concentration equaled or exceeded the ESV, or if an ESV was not available, the chemical was then considered to be an ecological COPC and was retained for further study in the ERA.

8.3 SCREENING-LEVEL EXPOSURE ESTIMATE

Exposure point chemical concentrations were obtained from surface soil samples collected in Phases I and II (2001, 2002, and 2003) and thus, the data set does not include samples collected from areas that were later excavated. Phase III data was not included in the risk assessment. An evaluation of Phase III data was completed by the ecological risk assessor to determine if incorporation of this data would impact the findings of the prior assessment. It was determined that inclusion of this data would likely reduce the calculation of ESVs values, since much of the Phase III data was collected as step out samples from areas of higher impact, and thus contained lower levels or non-detect levels of contamination. The data set (surface and subsurface samples) is presented in Tables 5-1 and 5-2. The term “surface soil” is used in this risk assessment to refer to soil collected form 0 to 1-ft depth, since USEPA Region IV considers this depth to be representative of surface soil.

The surface soil data base consisted of four samples collected beneath pavement plus 37 samples that were not beneath pavement. Since ecological receptors are essentially not exposed to soils beneath pavement, the 37 samples not beneath pavement were the primary data set evaluated in this risk assessment. Nevertheless, the other four samples were evaluated separately as a conservative measure, since moles and tree roots could be exposed to soils under pavement, or in case the pavement is removed in the future.

All analytes (except calcium, magnesium, potassium, and sodium) detected in surface soil samples were assessed in this investigation. Calcium, magnesium, potassium, and sodium were excluded because they are essential nutrients that are toxic only at extremely high concentrations. Due to the scarcity of data for these essential nutrients, it was not possible to develop ranges of toxicity for them even at high concentrations.

8.4 SCREENING-LEVEL RISK CALCULATION

The preliminary risk calculation step compared maximum concentrations of chemicals in surface soil to USEPA Region IV ESVs. The ratio of the maximum concentration to the ESV is called the screening HQ. Analytes whose maximum concentrations did not exceed ESVs (i.e., HQ < 1.0) were dropped from further

consideration, and those that equaled or exceeded ESVs (i.e., HQ $\geq$ 1.0), or did not have ESVs, were retained as ecological COPCs.

Twelve (12) pesticides were retained as COPCs because their maximum concentrations exceeded screening values (Table 8-1). Two VOCs (acetone and 2-butanone) were retained as COPCs because ESVs were not available. Four PAHs (benzo(a)pyrene, fluoranthene, phenanthrene, and pyrene) as well as total PAHs were retained as COPCs because their maximum concentrations exceeded ESVs, while seven other PAHs were retained as COPCs because ESVs were not available. Two phthalates (bis[2-ethylhexyl]phthalate and butyl benzyl phthalate) were retained as COPCs because ESVs were not available.

8.5 REFINEMENT OF PRELIMINARY COPCS

At this point, the first two steps of the ERA have been completed. The ERA process includes a series of scientific/management decision points (SMDPs) (USEPA, 1997a). The first SMDP occurs at the end of Step 2, and requires the risk managers to evaluate and approve or redirect the work up to that point and determine whether the risk assessment will continue into Step 3. However, USEPA Region IV recognizes that most ERAs will proceed into Step 3, and facilities are encouraged to submit the results of Steps 1 through 3 as a single deliverable document (USEPA, 2000b). With this in mind, and since the screening level ERA indicates a potential for adverse effects, a more thorough assessment is warranted. Therefore, the risk assessment process for PSC 47 will proceed into Step 3 (Baseline Risk Assessment Problem Formulation).

The baseline ERA begins with a more balanced evaluation of the conservativeness inherent in the first two steps of the risk assessment process. The initial phase of Step 3 is typically known as Step 3A, and consists of a refinement of the conservative exposure assumptions in order to more realistically estimate potential risks to ecological receptors (i.e., plants, invertebrates, and wildlife receptors). Examples of factors considered during Step 3A include toxicological evaluation of COPCs, spatial distribution of contaminants, food-chain modeling, and habitat quality (USEPA, 1997a; DON, 1999).

Food-chain modeling was conducted to investigate potential risks to representative receptors from ingested doses of surface soil COPCs that are known to bioaccumulate or biomagnify (USEPA, 2000b). The methods used to model the doses that representative receptors could receive, as well as the selection of toxicity reference values (TRVs), are presented in Appendix L. The assessment endpoints associated with the food-chain modeling were the protection of insectivorous birds and mammals from adverse effects of COPCs on growth, survival, and reproduction. The term “insectivorous” is used here in a broad sense to describe birds and mammals that prey not only upon insects, but on a variety of invertebrates (i.e., adult and larval insects, centipedes, millipedes, other arthropods, and worms). The

Table 8-1
Selection of Ecological COPCs for Surface Soil
Ecological Risk Assessment

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	Frequency of Detection	Minimum Detection	Maximum Detection[1]	Location of Maximum	Average of Positive Detections	Average of All Samples	Ecological Screening Value[2]	Hazard Quotient	COPC? (Yes/No)
Pesticides (µg/kg)									
4,4'-DDD	18/37	0.89	2500	SB10	528	395	2.5[3]	**1000**	Yes
4,4'-DDE	31/37	1.1	13000	SB42	1,401	1,174	2.5[3]	**5200**	Yes
4,4'-DDT	31/37	1.8	180000	SB50	8,579	7,188	2.5[3]	**72000**	Yes
Aldrin	1/37	13.9	13.9	SB29	13.9	137	2.5	**5.6**	Yes
Alpha-Chlordane	13/37	2.1	14000	SB50	1,607	598	100[4]	**140**	Yes
Beta-BHC	1/37	12.7	12.7	SB27	12.7	136	1.0	**12.7**	Yes
Delta-BHC	1/37	16.8	16.8	SB24	16.8	137	100[4]	0.2	No
Dieldrin	9/37	1.9	3400	SB50	467	229	0.5	**6800**	Yes
Endrin	6/37	14.5	1210	SB24	265	300	1.0	**1210**	Yes
Endrin Aldehyde	6/37	1.8	60.4	SB22	41.0	264	1.0[5]	**60.4**	Yes
Endrin Ketone	4/37	17.2	127.9	SB24	48.6	262	1.0[5]	**127.9**	Yes
Gamma-Chlordane	15/37	2.8	9700	SB50	1,171	508	100[4]	**97**	Yes
Heptachlor	1/37	430	430	SB42	430	134	100[4]	**4.3**	Yes
Heptachlor Epoxide	4/37	0.82	96	SB51	34.0	136	100[4]	0.96	No
Methoxychlor	2/37	21	25.4	SB08	23.2	1,334	100[4]	0.3	No
VOCs (µg/kg)									
2-Butanone	3/3	12	77	SB01	34.3	34	NA	NA	Yes
Acetone	2/3	3	3.5	SB17	3.3	5.8	NA	NA	Yes
Methylene Chloride	3/3	6	20	SB01	10.7	11	2000	0.01	No
Toluene	2/3	3	3.5	SB17	3.3	5.8	50	0.07	No

Table 8-1
Selection of Ecological COPCs for Surface Soil
Ecological Risk Assessment

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Chemical	Frequency of Detection	Minimum Detection	Maximum Detection[1]	Location of Maximum	Average of Positive Detections	Average of All Samples	Ecological Screening Value[2]	Hazard Quotient	COPC? (Yes/No)
SVOCs (µg/kg)									
Benzo(a)anthracene	2/3	120	230	SB01	175	177	NA	NA	Yes
Benzo(a)pyrene	2/3	130	380	SB01	255	230	100	**3.8**	Yes
Benzo(b)fluoranthene	2/3	120	560	SB01	340	287	NA	NA	Yes
Benzo(g,h,i)perylene	2/3	67	420	SB01	244	222	NA	NA	Yes
Benzo(k)fluoranthene	2/3	140	410	SB01	275	243	NA	NA	Yes
Chrysene	2/3	150	480	SB01	315	270	NA	NA	Yes
Dibenzo(a,h)anthracene	2/3	28	140	SB01	84.0	116	NA	NA	Yes
Fluoranthene	2/3	93	530	SB01	312	268	100	**5.3**	Yes
Indeno(1,2,3-cd)pyrene	2/3	76	400	SB01	238	219	NA	NA	Yes
Phenanthrene	2/3	21	160	SB01	90.5	120	100	**1.6**	Yes
Pyrene	2/3	120	520	SB01	320	273	100	**5.2**	Yes
Total PAHs	2/3	1065	4230	SB01	2,648	2,425	1000	**4.2**	Yes
Bis(2-ethylhexyl)phthalate	2/3	130	1400	SB01	765	570	NA	NA	Yes
Butyl benzyl phthalate	2/3	35	360	SB01	198	192	NA	NA	Yes
Dimethyl phthalate	1/3	340	340	SB01	340	245	200000	0.002	No

Notes:

1 The maximum detected concentration was used for screening purposes.

2 USEPA Region IV Screening Values (USEPA, 2000).

3 Screening value for total of DDT, DDE, and DDD.

4 Screening value for organochlorinated pesticides.

5 Screening value for endrin

NA - Ecological screening value not available.

Bold indicates HQ is greater than 1.0

short-tailed shrew was selected to represent insectivorous mammals and the American robin was selected to represent insectivorous birds. The associated measurement endpoints were doses of COPCs associated with adverse effects on growth, survival, and reproduction of these receptor groups.

Large terrestrial carnivorous birds and mammals (e.g., red fox, red-tailed hawk) were not selected as assessment endpoints because of the developed nature of the sites and their small size compared to the typical foraging areas of carnivorous animals. Omnivores and herbivores were not selected as assessment endpoints because exposure to organochlorine pesticides is greater for insectivores than for omnivores and herbivores.

8.5.1 Results of Food-Chain Modeling

Based on maximum concentrations obtained from Phases I and II data and conservative assumptions, food chain HQs exceeded 1.0 for 10 pesticides: 4,4'-DDT, 4,4'-DDD, 4,4'-DDE (hereafter referred to as DDT, DDD, and DDE, respectively), alpha-chlordane, gamma-chlordane, dieldrin, endrin, endrin aldehyde, endrin ketone, and heptachlor (Table 8-2). Based on the average concentration scenario, food chain HQs exceeded 1.0 for nine pesticides: DDT, DDD, DDE, dieldrin, endrin, endrin aldehyde, endrin ketone, heptachlor, and delta-BHC (Table 8-3). Food chain HQs for DDD, DDE, and DDT were especially elevated for insectivorous birds represented by the robin.

As shown in Tables 8-2 and 8-3, food chain HQs for delta-BHC, endrin aldehyde, and endrin ketone were greater using average concentrations than those using maximum concentrations. This incongruity occurs when the detection limits in "non-detected" samples exceed the maximum detected concentrations, especially when the analyte is infrequently detected. For example, delta-BHC was detected in only one of 37 samples, at a concentration of 16.8 µg/kg, but the detection limit for this analyte in five "non-detect" samples were elevated, and was 5300 µg/kg in one sample. The average concentration calculated by assuming a value of one-half the detection limit for non-detected samples resulted in a concentration that was greater than the maximum detected concentration.

8.5.2 Step 3a Discussion

The results of the screening level assessment and Step 3a considerations are discussed on a COPC-specific basis.

8.5.2.1 Volatile Organic Compounds

Two VOCs (acetone and 2-butanone) were retained as COPCs because ESVs were not available. No pertinent toxicity information was found for 2-butanone. The toxicity of acetone to animals is in the parts-per-thousand range (Opresko, 1995). Neither of these chemicals is expected to be toxic via the

Table 8-2
Terrestrial Wildlife Model - Maximum HQs

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Parameter	Short-tailed Shrew HQ_{NOAEL}	Short-tailed Shrew HQ_{LOAEL}	American Robin HQ_{NOAEL}	American Robin HQ_{LOAEL}
Pesticides				
4,4'-DDD	**4.3**	0.9	**1876.8**	**187.7**
4,4'-DDE	**22.6**	**4.5**	**9759.3**	**975.9**
4,4'-DDT	**312.7**	**62.5**	**135128.2**	**13512.8**
ALDRIN	0.02	0.005		
ALPHA-CHLORDANE	**1.6**	0.8	**5.3**	**1.1**
BETA-BHC	0.002	0.0003	0.02	0.005
DELTA-BHC	0.64	0.064	0.02	0.01
DIELDRIN	**120.9**	**12.1**	**47.5**	**4.8**
ENDRIN	**5.1**	0.5	**70.9**	**7.1**
ENDRIN ALDEHYDE	0.3	0.03	**3.5**	0.4
ENDRIN KETONE	0.5	0.1	**7.5**	0.7
GAMMA-CHLORDANE	**1.1**	0.6	**3.7**	0.7
HEPTACHLOR	**4.4**	0.4		
HEPTACHLOR EPOXIDE	0.3	0.03		

Notes
- Blank spaces indicates that an HQ could not be calculated because a NOAEL or LOAEL was not available
- Bold indicates HQ is greater than 1.0

HQ - Hazard Quotient
NOAEL - No Observed Adverse Effects Concentration
LOAEL - Lowest Observed Adverse Effects Concentration

Table 8-3
Terrestrial Wildlife Model - Average HQs

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Parameter	Short-tailed Shrew HQ_{NOAEL}	Short-tailed Shrew HQ_{LOAEL}	American Robin HQ_{NOAEL}	American Robin HQ_{LOAEL}
Pesticides				
4,4'-DDD	0.6	0.1	**271.3**	**27.1**
4,4'-DDE	**1.7**	0.3	**807.5**	**80.8**
4,4'-DDT	**10.4**	**2.1**	**4942.9**	**494.3**
ALDRIN	0.2	0.04		
ALPHA-CHLORDANE	0.1	0.03	0.2	0.04
BETA-BHC	0.02	0.003	0.2	0.05
DELTA-BHC	**4.35**	0.44	0.2	0.05
DIELDRIN	**6.8**	0.7	**2.9**	0.3
ENDRIN	**1.1**	0.1	**16.1**	**1.6**
ENDRIN ALDEHYDE	0.9	0.1	**14.2**	**1.4**
ENDRIN KETONE	0.9	0.1	**14.0**	**1.4**
GAMMA-CHLORDANE	0.05	0.02	0.2	0.04
HEPTACHLOR	**1.2**	0.1		
HEPTACHLOR EPOXIDE	0.4	0.04		

Notes:
- Blank spaces indicates that an HQ could not be calculated because a NOAEL or LOAEL was not available
- Bold indicates HQ is greater than 1.0

HQ - Hazard Quotient
NOAEL - No Observed Adverse Effects Concentration
LOAEL - Lowest Observed Adverse Effects Concentration

food chain. Although toxicity data are sparse regarding their effects to invertebrates, the presence of these two chemicals at relatively low concentrations in PSC 47 soil probably poses negligible or minor risk.

8.5.2.2 SVOCs

Maximum screening HQs of four PAHs (benzo(a)pyrene, fluoranthene, phenanthrene, and pyrene) as well as total PAHs exceeded 1.0, but were relatively low (1.6 to 5.3). The USEPA Region IV ESVs for these four PAHs and for total PAHs are based on concentrations that represent background concentrations in soil or detection limits (Friday, 1998). The maximum concentration of total PAHs (4230 µg/kg, Table 8-1) was well below 20,000 µg/kg, which has been described as moderate soil contamination that requires additional study (Friday, 1998). Because of this, and since the toxicity of PAHs via the terrestrial food web is negligible at the concentrations measured in PSC 47 soil, PAHs pose negligible risk at the site.

ESVs were not available for bis(2-ethylhexyl)phthalate or butyl benzyl phthalate. Phthalates are common environmental contaminants due to their use in plastics. Phthalates can also be an artifact of the sampling and/or analytical methods. Ecotoxicity data for plants and invertebrates plants could not be located, but phthalates have a low acute toxicity to animals and would pose negligible risk to animals via the food chain at the concentrations measured in PSC 47 soil.

8.5.2.3 Pesticides

As mentioned in Section 8.3, the surface soil data set used to generate Tables 8-1, 8-2, and 8-3 consisted of samples that were not beneath pavement. Four surface soil samples (SB07, SB11, SB28, and SB57) were collected beneath pavement. Concentrations of pesticides in these four samples were within the range of concentrations in the other 37 samples (Table 5-1).

All pesticide COPCs at PSC 47 are organochlorine insecticides that are no longer used but are known to be extremely persistent in soil. Maximum screening HQs were especially elevated for DDD, DDE, DDT, dieldrin, and endrin (Table 8-1). The HI, which is an estimate of cumulative toxicity and is calculated as the sum of individual HQs, would be particularly elevated, even if only the average concentrations were considered. There is no doubt that concentrations of pesticides in some PSC 47 soil samples pose risk to soil invertebrates; after all, these pesticides were developed to control soil insects.

The elevated food chain HQs indicate risk to birds and mammals that consume soil invertebrates at the site. Food chain HQs for DDD, DDE, and DDT were especially elevated for insectivorous birds represented by the robin. The primary issue in determining risk to insectivorous birds and mammals at

PSC 47 is the extent to which birds and mammals actually forage at the site. Approximately one-half of the 4.2-acre site consists of buildings and areas covered by concrete, asphalt, or gravel. The remainder of the site consists of turf grass, landscaped shrubbery, and a few scattered trees. The site, therefore, provides poor habitat for terrestrial species. Wildlife receptors at the site are those typically found in urban areas, such as moles, mice, lizards, birds, and exotic rodents such as the black rat and house mouse. An examination of Figure 8-1 shows that the samples with elevated concentrations of pesticides had a tendancy to be located in areas where exposure to terrestrial receptors would be negligible; specifically, adjacent to Buildings 937 and 536, near parking lots, and along Child Street.

The highest food chain HQs were for DDD, DDE, DDT, dieldrin, and endrin (Table 8-2). Food chain HQs for other pesticides were either less than 1.0, or did not greatly exceed 1.0 (except endrin aldehyde and endrin ketone). As explained in Section 8.5.1, food chain HQs for endrin aldehyde and endrin ketone under the average concentration scenario (14.2 and 14.0, respectively, Table 8-3) were greater than the maximum concentration HQs due to high detection limits in some non-detect samples.

Concentrations of pesticides had a tendancy to be much lower in samples along the northern, western, and southern boundaries of the site (Figure 8-1). DDD, DDE, and DDT, which had the highest food chain HQs over the site as a whole, were present at much lower concentrations along the site periphery, and other pesticides were rarely detected along the site periphery. Foraging by birds and mammals would be more likely to occur along the northern, western, and southern boundaries of the site than in areas nearer the buildings and parking lots. Concentrations of DDD, DDE, and DDT were approximately 20 µg/kg, 40 µg/kg, and 40 µg/kg, respectively, in samples along the northern, western, and southern boundaries of the site (Figure 8-1). Based on these concentrations, food chain HQs would be less than 1.0 for the shrew, while food chain no-observed adverse effects level (NOAEL)-based HQs for the robin would be 14 for DDD and 28 for DDE and DDT. Based on the same concentrations, the lowest-observed adverse effects level (LOAEL)-based HQs would be 1.4 for DDD and 2.8 for DDE and DDT.

The food chain HQs are also mitigated by considering the area in which insectivorous birds such as the robin actually forage. The home range of the robin during breeding season is approximately 0.5 to 2.0 acres, while robins often forage over distances of a mile or more during non-breeding seasons (USEPA, 1993; Sallabanks and James, 1999). Therefore, a robin could possibly forage exclusively in the vicinity of PSC47 only during nesting, which is approximately April through July in Florida (Kale and Maehr, 1990).

8.6 UNCERTAINTY

Uncertainty is associated with all aspects of the ecological assessment methodology presented in the preceding sections. This section provides a summary of the uncertainties.

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR CONSTITUENT CONCENTRATIONS EXCEEDING ECOLOGICAL SCREENING VALUES 5/07/07 SP

CONSTITUENT	Ecological Screening Value
4,4'-DDD	2.5
4,4'-DDE	2.5
4,4'-DDT	2.5
ALDRIN	2.5
ALPHA-CHLORDANE	100
BENZO(A)PYRENE	100
BETA-BHC	1.0
DELTA-BHC	100
DIELDRIN	0.5
DIMETHYL PHTHALATE	200
ENDRIN	1.0
ENDRIN ALDEHYDE	1.0
ENDRIN KETONE	1.0
FLUORANTHENE	100
GAMMA-CHLORDANE	100
HEPTACHLOR	100
HEPTACHLOR EPOXIDE	100
METHOXYCHLOR	100
PHENANTHRENE	100
PYRENE	100
TOTAL PAHs	1000

LEGEND

- Soil Sample Location
- Location ID: JAX47-SB20
- Constituent ID: 4,4'-DDE 29.4 — Concentration (ug/kg)
- ug/kg = micrograms per kilogram
- NX = No Exceedances
- PSC Boundary
- Building/Structure
- Vegetation
- Road
- Sidewalk
- Fence
- Surface Water

JAX47-SB27: 4,4'-DDE 17.2; 4,4'-DDT 15.7; BETA-BHC 12.7

JAX47-SB25: 4,4'-DDE 160; 4,4'-DDT 190; ALPHA-CHLORDANE 190; DIELDRIN 27 J; GAMMA-CHLORDANE 160

JAX47-SB41: 4,4'DDE 39; 4,4'-DDT 34; DIELDRIN 1.9 J; ENDRIN ALDEHYDE 1.8 J

JAX47-SB24: 4,4'-DDD 840; 4,4'-DDE 840; 4,4'-DDT 2300; ALPHA-CHLORDANE 1400; DIELDRIN 93.4; ENDRIN 1210; ENDRIN ALDEHYDE 40.4; ENDRIN KETONE 127.9; GAMMA-CHLORDANE 2400

JAX47-SB23: 4,4'-DDD 14.1; 4,4'-DDE 36.8; 4,4'-DDT 50.9; ENDRIN ALDEHYDE 53.8; ENDRIN KETONE 21.1

JAX47-SB22: 4,4'-DDD 57.1; 4,4'-DDE 520; 4,4'-DDT 140; ENDRIN ALDEHYDE 60.4; ENDRIN KETONE 17.2

JAX47-SB26: 4,4'-DDE 21.8

JAX47-SB40: 4,4'-DDD 4.6; 4,4'-DDE 46; 4,4'-DDT 46

JAX47-SB21: 4,4'-DDD 16; 4,4'-DDE 30.8; 4,4'-DDT 37; ENDRIN ALDEHYDE 54.3

JAX47-SB28: 4,4'-DDD 5400; 4,4'-DDE 2300; 4,4'-DDT 2700; ALPHA-CHLORDANE 360; DIELDRIN 122.3; ENDRIN 64.6; GAMMA-CHLORDANE 280

JAX47-SB20: 4,4'-DDE 29.4

536

JAX47-SB16: 4,4'-DDE 680; 4,4'-DDT 310; DIELDRIN 83; ENDRIN 82.2; GAMMA-CHLORDANE 860

JAX47-SB42: 4,4'-DDD 760 J; 4,4'-DDE 13000; 4,4'-DDT 7500; ALPHA-CHLORDANE 2700; GAMMA-CHLORDANE 2300; HEPTACHLOR 430 J

JAX47-SB44: 4,4'-DDD 800 J; 4,4'-DDE 9600; 4,4'-DDT 3600; ALPHA-CHLORDANE 760 J; GAMMA-CHLORDANE 850 J

JAX47-SB17: 4,4'-DDD 11 J; 4,4-DDE 72; 4,4'-DDT 210; DIELDRIN 6.4 J; BENZO(A)PYRENE 130 J; PYRENE 120 J; TOTAL PAHs 1065

JAX47-SB15: 4,4'-DDE 69.8; 4,4'-DDT 16

JAX47-SB14: NX

JAX47-SB50: 4,4'-DDE 12000; 4,4'-DDT 180000; ALPHA-CHLORDANE 1400; DIELDRIN 3400; GAMMA-CHLORDANE 9700

JAX47-SB51: 4,4'-DDD 510; 4,4'-DDE 1500; 4,4'-DDT 2300; ALPHA-CHLORDANE 1300; DIELDRIN 380 J; GAMMA-CHLORDANE 520

JAX47-SB10: 4,4'-DDD 2500; 4,4'-DDE 930; 4,4'-DDT 14000; DIELDRIN 15.2; ENDRIN 29.9

JAX47-SB30: 4,4'-DDE 24.8; 4,4'-DDT 16.5

JAX47-SB29: 4,4'-DDD 30.2; 4,4'-DDE 104.6; 4,4'-DDT 56.7; ALDRIN 13.9

JAX47-SB11: 4,4'-DDD 3800; 4,4'-DDE 240; 4,4'-DDT 370; ALPHA-CHLORDANE 330; DIELDRIN 260; ENDRIN 200; ENDRIN ALDEHYDE 42.5; GAMMA-CHLORDANE 550

Child Street

JAX47-SB12: 4,4'-DDD 1200; 4,4'-DDE 1050; 4,4'-DDT 1200; ALPHA-CHLORDANE 300; DIELDRIN 200; ENDRIN 220; ENDRIN ALDEHYDE 35.1; GAMMA-CHLORDANE 530

JAX47-SB09: 4,4'-DDE 60.3; 4,4'-DDT 21.6

JAX47-SB08: NX

JAX47-SB07: 4,4'-DDD 101.9; 4,4'-DDE 142.8; 4,4'-DDT 164

JAX47-SB56: NX

937

JAX47-SB01: 4,4'-DDD 300 J; 4,4'-DDE 190 J; 4,4'-DDT 380 J; ALPHA-CHLORDANE 110 J; BENZO(A)PYRENE 380 J; DIMETHYL PHTHALATE 340 J; ENDRIN KETONE 28 J; FLUORANTHENE 530 J; PHENANTHRENE 160 J; PYRENE 520 J; TOTAL PAHs 4230

600

JAX47-SB05: 4,4'-DDE 17.8; 4,4'-DDT 15.3

JAX47-SB04: 4,4'-DDD 51.1; 4,4'-DDE 162.1; 4,4'-DDT 122.3; ENDRIN 32.3

JAX47-SB57: 4,4'-DDT 55

JAX47-SB03: 4,4'-DDD 15.1; 4,4'-DDE 21.9

JAX47-SB02: 4,4'-DDT 15.2; ENDRIN 14.5

JAX47-SB55: 4,4'-DDE 2.7 J; 4,4'-DDT 4.1

JAX47-SB60: NX

JAX47-SB63: NX

JAX47-SB59: 4,4'-DDD 2.6 J; 4,4'-DDE 3.2 J; 4,4'-DDT 23

JAX47-SB61: 4,4'-DDT 12

JAX47-SB62: 4,4'-DDT 2.5 J

JAX47-SB58: 4,4'-DDD 2200 J; 4,4'-DDE 2200 J; 4,4'-DDT 53000

N

70 0 70 Feet

DRAWN BY: J. LAMEY	DATE: 9/24/03
CHECKED BY: ____	DATE: ____
REVISED BY: ____	DATE: ____
SCALE: AS NOTED	

NAVFAC

CONSTITUENT CONCENTRATIONS EXCEEDING ECOLOGICAL SCREENING VALUES IN SURFACE SOIL SAMPLES IN PHASES I AND II
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	3966
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 8 - 1
REV.	0

8.6.1 Uncertainty in the Problem Formulation

Probably the primary uncertainty in this risk assessment is the extent that wildlife receptors forage at PSC 47. The site provides poor habitat, and as a result, significant foraging probably does not occur at the site. Risk to insectivorous receptors was evaluated as a conservative measure, but under current habitat conditions, the food chain HQs are believed to grossly overestimate risk at the site. The precise extent of overestimation is uncertain.

Another uncertainty associated with PSC 47 is the choice of representative receptors. The short-tailed shrew was selected to represent small mammals that consume insects, but the site provides very little cover in which these timid animals can hide. Under current habitat conditions, the food chain HQs for mammals represented by the shrew are believed to grossly overestimate risk to insectivorous mammals.

Larger animals such as foxes, bobcats, and hawks were not selected as representative receptors due to conditions at the site. Bobcats are not found in developed areas such as the vicinity of PSC 47. Foxes sometimes become habituated to developed areas, but would be inhibited from foraging at the site by the chain link fence along the northern and western boundary of the site. Similarly, the site would not be expected to provide foraging habitat to large predatory birds such as hawks. The uncertainty associated with not including large predatory mammals and birds is negligible.

Evidence indicates that the groundwater-to-surface water pathway is not complete at the site, and therefore, groundwater contaminants are presumed to pose no risk to ecological receptors. Extensive groundwater data, the absence of surface water bodies at the site, and the distance to downgradient surface water bodies supports this presumption. Thus, the uncertainty associated with this presumption appears to be negligible.

8.6.2 Uncertainty in the Ecological Effects Characterization

Laboratory-derived NOAELs and LOAELs might not adequately represent toxicity thresholds for receptors under field conditions. In addition, NOAELs and LOAELs derived for species used in toxicity tests might not adequately represent toxicity thresholds for other species. These uncertainties may overestimate or underestimate potential risks.

Data for investigating toxicity to reptiles and amphibians from oral ingestion of contaminants are sparse. Thus, potential risks via the food chain were not evaluated for reptiles and amphibians. With the exception of toads, however, few reptiles and amphibians probably utilize the site.

8.6.3 Uncertainty in the Exposure Assessment

Detection limits for some non-detected pesticides exceeded ESVs in five samples (SB42, SB44, SB50, SB51, and SB58A (See Table 5-1 for detection limits and Table 8-1 for ESVs). Elevated concentrations of DDT and/or DDE in these five samples required dilutions during the laboratory analytical process, which resulted in elevated reporting limits for non-detected pesticides. While the high detection limits prevents a complete evaluation of the presence of pesticides in these five samples, the overall impact of this uncertainty in not significant.

The dermal exposure for upper-level receptors was not evaluated, potentially underestimating risks. However, this exposure route is usually miniscule.

Literature-based bioaccumulation factors used in food-chain modeling often vary between species and sites. This can overestimate or underestimate potential risks.

Soil samples evaluated in this risk assessment consisted of samples no deeper than 1 ft below the soil surface. However, tree roots extend deeper than 1 ft below the surface, and mammals such as moles could burrow deeper than 1 ft. With the exception of moles and trees, terrestrial species at the site would rarely (if ever) be exposed to soils deeper than 1 ft below the surface. The uncertainty resulting in evaluating only surface soils is negligible.

8.6.4 Uncertainty in the Risk Characterization

This uncertainty results from the combination of the above uncertainties. For example, the assessment of risks to upper-level receptors via the food chain is hindered by uncertainties such as the derivation of the toxicity reference values, the process used to derive bioaccumulation factors, and the choice of the best species to represent mammal and bird receptors. A weight-of-evidence approach to assess risks was used to reduce the overall uncertainty in these situations.

Uncertainty in risk characterization also results from the lack of data regarding the toxicity of multiple chemicals. For example, soil concentrations of pesticides were elevated at numerous locations. The extent to which these concentrations might contribute to cumulative toxicity is uncertain.

An uncertainty in the evaluation of ecological risk at PSC 47 is the future land use of the property that comprises the site. For example, foraging by insectivorous birds and mammal species is essentially non-existent under current conditions. If the site is eventually converted to more natural habitat conditions, pesticide concentrations in soil at current concentrations would pose significant potential risk to many receptors.

8.7 SUMMARY AND CONCLUSIONS

VOCs and SVOCs pose negligible risk at PSC 47.

Organochlorine pesticides, especially DDT, DDD, DDE, dieldrin, and endrin, are present in some surface soil samples at extremely high concentrations. These pesticides are no longer used but are known to be extremely persistent in soil. Pesticide concentrations in several samples pose risk to soil invertebrates, especially from the cumulative toxicity of multiple pesticides.

Organochlorine pesticides can bioaccumulate and biomagnify in the food chain and the risk assessment suggests elevated risk to mammals and birds that consume soil invertebrates at the site. However, the site provides only about one acre of poor-quality habitat in a developed portion of NAS Jacksonville. Pesticide concentrations were greatest near Buildings 937 and 536, parking lots, and along Child Street, where foraging by birds and mammals is essentially negligible. Pesticide concentrations were considerably lower in samples along the northern, western, and southern boundaries of the site.

Earthworm toxicity tests or the collection of soil invertebrates for tissue analyses would provide little benefit in characterizing risk, since the major factor here is habitat quality, rather than actual tissue concentrations or earthworm survival.

The poor habitat, the urban nature of the area, and the small size of PSC 47 results in an exposure pathway that is essentially negligible for wildlife species. Therefore, with the exception of receptors such as soil invertebrates, the potential for ecological impacts from site-related contaminants is minor under current habitat conditions.

9.0 REMEDIAL ACTION OBJECTIVES AND GENERAL RESPONSE ACTIONS

This section develops RAOs and derives PRGs for the contaminated media. The regulatory requirements and guidance [e.g., Applicable or Relevant and Appropriate Requirement (ARARs)] that may potentially govern remedial activities are presented in this section. In addition, this section presents the COCs identified during the RI, HHRA, and ERA and the conceptual pathways through which these chemicals may affect human health, and thus derives the environmental media of concern. The PRGs for the contaminated media are developed in this section and general response actions (GRAs) that may be suitable to achieve the PRGs are presented. Finally, this section presents an estimate of the volumes of contaminated media.

9.1 REMEDIAL ACTION OBJECTIVES

RAOs are medium-specific goals that define the objective of conducting remedial actions to protect human health and the environment. The RAOs specify the COCs, potential exposure routes and receptors, and an acceptable range of COC concentrations (i.e., PRGs) for the site.

The development of PRGs takes into consideration ARARs and to be considered (TBC) criteria. Section 9.1.2 identifies the ARARs and TBC criteria, Section 9.1.3 identifies the media of concern, and Section 9.1.4 identifies the COCs for remediation.

9.1.1 Statement of RAOs

Site-specific RAOs specify COCs, media of interest, exposure pathways, and cleanup goals or acceptable contaminant concentrations. RAOs may be developed to permit consideration of a range of treatment and containment alternatives. This FS addresses soil and groundwater contamination at PSC 47. To protect the public from potential current and future health risks, as well as protect the environment, the following RAOs have been developed:

Soil RAO No. 1:

Prevent unacceptable risk from exposure to surface and subsurface soil with concentrations of benzo(a)pyrene equivalent, pesticides, and arsenic greater than the FDEP SCTLs for direct residential exposure.

Soil RAO No. 2:

Prevent migration of pesticides to groundwater from surface and subsurface soil with concentrations of these chemicals greater than the FDEP SCTLs or site specific criteria for leachability to groundwater.

Groundwater RAO No. 1:

Prevent unacceptable risk from exposure to groundwater with concentrations of VOCs, SVOCs, pesticides, and arsenic greater than the FDEP GCTLs and the USEPA MCLs.

Groundwater RAO No. 2:

Prevent migration of groundwater COCs to surface water.

9.1.2 ARARs and TBC Criteria

ARARs consist of the following:

- Any standard, requirement, criterion, or limitation under federal environmental law.

- Any promulgated standard, requirement, criteria, or limitation under a state environmental or facility law that is more stringent than the associated federal standard, requirement, criterion, or limitation.

TBCs are non-promulgated, non-enforceable guidelines or criteria that may be useful in developing a remedial action or are necessary for determining what are protective to human health and/or the environment. Examples of TBCs include USEPA's Drinking Water Health Advisories, RfDs, CSFs, and FDEP SCTLs.

One of the primary concerns during the development of remedial action alternatives for hazardous waste sites under CERCLA is the degree of human health and environmental protection offered by a given remedy. Section 121 of CERCLA requires that primary consideration be given to remedial alternatives that attain or exceed ARARs. The purpose of this requirement is to make CERCLA response actions consistent with other pertinent federal and state environmental requirements.

9.1.2.1 Definitions

The definitions of ARARs are given below:

- Applicable requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstances at a CERCLA site.

- Relevant and Appropriate Requirements are cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law, while not "applicable" to a hazardous substance, pollutant, contaminant, or remedial action, location, or other circumstances at a CERCLA site, addresses problems or situations sufficiently similar to those encountered at the CERCLA site that their use is well suited to the particular site.

- TBCs are a category created by USEPA that includes non-promulgated criteria, advisories, and guidance issued by federal and state government that are not legally binding and do not have the status of potential ARARs. However, pertinent TBCs will be considered along with ARARs in determining the necessary level of cleanup or technology requirements.

The National Oil and Hazardous Substances Contingency Plan (NCP) has identified three categories of ARARs [40 Code of Federal Regulations (CFR) Section 300.400 (g)]:

- Chemical-Specific: Health/risk-based numerical values or methodologies that establish concentration or discharge limits for particular contaminants. Examples include USEPA MCLs and Clean Water Act (CWA) Ambient Water Quality Criteria (AWQC).

- Location-Specific: Restrict actions or contaminant concentrations in certain environmentally sensitive areas. Examples of these areas regulated under various Federal laws include floodplains, wetlands, and locations where endangered species or historically significant cultural resources are present.

- Action-Specific: Technology- or activity-based requirements, limitations on actions, or conditions involving special substances. Examples of action-specific ARARs include wastewater discharge standards.

The following section discusses contaminant- and location-specific ARARs and TBCs. Action-specific ARARs and TBCs are presented in Section 9.3 with the discussion of the GRAs.

9.1.2.2 Chemical-Specific ARARs and TBCs

This section presents a summary of federal and state chemical-specific ARARs and TBCs. All of these ARARs and TBCs provide medium-specific guidance on "acceptable" or "permissible" concentrations of contaminants. Tables 9-1 and 9-2 present a list of federal and state of Florida chemical-specific ARARs and TBCs for this FS.

9.1.2.3 Location-Specific ARARs and TBCs

This section provides a summary of federal and state location-specific ARARs and TBCs. These ARARs and TBCs place restrictions on concentrations of contaminants or the conduct of activities based upon the site's particular characteristics or location. Tables 9-3 and 9-4 present a list of federal and state of Florida's location-specific ARARs and TBCs for this FS.

9.1.3 Media of Concern

Based upon the results of the RI, HHRA, and ERA involving toxicity and risk assessment for both human and ecological receptors, as well as the agreements made by the NAS Jacksonville Partnering Team, the primary media of concern at PSC 47 were determined to be soil and groundwater.

9.1.4 Chemicals of Concern for Remediation

COCs for PSC 47 were determined based on the HHRA and ERA and based on screening of maximum concentrations with state and federal criteria. The list of COCs was developed by comparing maximum detected chemical concentrations in the soil and groundwater to appropriate criteria as discussed below.

9.1.4.1 Soil COCs

Site-specific soil data were compared to the FDEP direct exposure SCTLs and the FDEP soil leachability criteria and the chemicals listed below are retained as soil COCs based on exceedance of the FDEP residential and/or leachability SCTLs:

Arsenic	delta-BHC	Endrin
BaPEq	4,4'-DDD	Heptachlor
alpha-BHC	4,4'-DDT	Heptachlor Epoxide
beta-BHC	Dieldrin	

Table 9-1
Federal Chemical-Specific ARARs and TBCs

Remedial Investigation/Feasibility Study for PSC 47
Naval Air Station Jacksonville
Jacksonville, Florida

Requirement	Citation	Status	Synopsis	Evaluation/Action to be Taken
Safe Drinking Water Act (SWDA) Regulations, Maximum Contaminant Levels (MCLs)	40 CFR Part 141	Relevant and Appropriate	Establishes enforceable standards for potable water for specific contaminants that have been determined to adversely affect human health.	Would be used as protective levels for groundwater or surface waters that are current or potential drinking water sources.
SDWA Regulations, National Secondary Drinking Water Standards (SMCLs)	40 CFR Part 143	To Be Considered (TBC)	Establishes welfare-based standards for public water systems for specific contaminants or water characteristics that may affect the aesthetic qualities of drinking water.	Would be used as protective levels for groundwater or surface waters that are current or potential drinking water sources.
USEPA Office of Drinking Water, Health Advisories		Potential TBC	Health advisories are estimates of non-carcinogenic risk due to consumption of contaminated drinking water.	These advisories would be considered for contaminants in surface water and groundwater that is or could be used as a potable water source.
Cancer Slope Factors (CSFs)		TBC	CSFs are guidance value used to evaluate the potential carcinogenic hazard caused by exposure to contaminants.	CSFs would be considered for development of human health protection PRGs for soil and groundwater at this site.
Reference Doses (RFDs)		TBC	RFDs are guidance values used to evaluate the potential non-carcinogenic hazard caused by exposure to contaminants.	RFDs would be considered for development of human health protection PRGs for soil and groundwater at this site.

Table 9-2
State Chemical-Specific ARARs and TBCs

Remedial Investigation/Feasibility Study for PSC 47
Naval Air Station Jacksonville
Jacksonville, Florida

Requirement	Citation	Status	Synopsis	Evaluation/Action to be Taken
Florida Drinking Water Standards	FAC Chapter 62-550	Applicable	Rule adopts federal primary and secondary drinking water standards and also creates additional rules to fulfill state and federal requirements for community water distribution systems.	These regulations would be used to determine cleanup levels for groundwater that is a potential source of drinking water.
Florida Surface Water Quality Standards	FAC Chapter 62-302	Potentially Applicable	Rule distinguishes surface water into five classes based on designated uses and establishes ambient water quality standards (called Florida Water Quality Standards) for listed pollutants.	Because these standards are specifically tailored to Florida waters, they should be used to establish cleanup levels rather than the Federal AWQC.
Florida Groundwater classes, Standards and Exemptions	FAC Chapter 62-520	Applicable	This rule designates the groundwater of the state into five classes and establishes minimum “free from” criteria. This rule also specifies that Classes I & II must meet the primary and secondary drinking water standards listed in Chapter 62-550.	These regulations would be used to determine cleanup levels for groundwater that is a potential source of drinking water.
Contaminant Cleanup Target Levels Rule	FAC Chapter 62-777	Applicable	This document provides guidance for soil, groundwater, and surface water cleanup levels that can be developed on a site-by-site basis.	These guidelines would be used in determining cleanup goals.

Table 9-3
Federal Location-Specific ARARs and TBCs

Remedial Investigation/Feasibility Study for PSC 47
Naval Air Station Jacksonville
Jacksonville, Florida

Requirement	Citation	Status	Synopsis	Evaluation/Action to be Taken
Endangered Species Act Regulations	50 CFR Parts 81, 225, 402	Potentially Applicable	This act requires federal agencies to act to avoid jeopardizing the continued existence of federally listed endangered or threatened species.	If a site investigation or remediation could potentially affect an endangered species, these regulations would apply.
Historic Sites Act Regulations	36 CFR Part 62	Potentially Applicable	Requires federal agencies to consider the existence and location of landmarks on the National Registry of Natural Landmarks to avoid undesirable impacts on such landmarks.	The existence of Natural Landmarks would be identified prior to remedial activities on site including remedial investigations.
Fish and Wildlife Coordination Act Regulations	33 CFR Subsection 320.3	Potentially Applicable	Requires that the U.S. Fish and Wildlife Service, National Marine Fisheries Service, and related state agencies be consulted prior to structural modification of any body of water, including wetlands. If modifications must be conducted, the regulation requires that adequate protection be provided for fish and wildlife resources.	If a remedial alternative involves the alteration of a stream or wetland, these agencies would be consulted.
National Environmental Policy Act (NEPA) Regulations, Wetlands, Floodplains, etc.	40 CFR Subsection 6.302 [a]	Potentially Applicable	These regulations contain the procedures for complying with Executive Order 11990 on wetlands protection. Appendix A states that no remedial alternative adversely affect a wetland if another practicable alternative is available. If no alternative is available, impacts from implementing the chosen alternative must be mitigated.	If remedial action affects a wetland, these regulations would apply.
National Environmental Policy Act (NEPA) Regulations, Floodplain Management, Executive Order 11988	40 CFR Part 6, Appendix A	Potentially Applicable	Appendix A describes the policy for carrying out the Executive Order regarding floodplains. If no practicable alternative exists to performing cleanup in a floodplain, potential harm must be mitigated and actions taken to preserve the beneficial value of the floodplain.	If removal actions take place in a floodplain, alternatives would be considered that would reduce the risk of flood loss and restore and preserve the floodplain.
Fish and Wildlife Conservation Act	40 CFR Section 6.302	Potentially Applicable	Requires action to be taken to protect fish and wildlife from projects affecting streams or rivers.	U.S. Fish and Wildlife Service officials would be consulted on how to minimize impacts of any remedial activities on any wildlife.

Table 9-4
State Location-Specific ARARs and TBCs

Remedial Investigation/Feasibility Study for PSC 47
Naval Air Station Jacksonville
Jacksonville, Florida

Requirement	Citation	Status	Synopsis	Evaluation/Action to be Taken
There are no State Location-Specific ARARs				

9.1.4.2 Groundwater COCs

The HHRA identified chemicals in the groundwater as a concern to human receptors. Analytical groundwater data for the site were compared to the USEPA's current drinking water Standards (USEPA, 1998a), FDEP GCTLs (FDEP, 1999) as provided in Florida Administrative Code (FAC) 62-777 (April 2005), and NAS Jacksonville background concentrations (ABB-ES, 1996). The following chemicals were detected in the groundwater above their respective site-specific criteria and were retained as groundwater COCs:

Aldrin	4,4'-DDE	Isopropylbenzene
Arsenic	4,4'-DDT	2-Methylnaphthalene
Benzene	Dieldrin	Naphthalene
alpha-BHC	1,2-Dibromo-3-Chloropropane	Pentachlorophenol
beta-BHC	cis-1,2-DCE	PCE
delta-BHC	2,4-Dichlorophenol	TCE
gamma-BHC	Endrin Ketone	2,4,5-Trichlorophenol
1,1-Biphenyl	Ethylbenzene	Vinyl Chloride
4,4'-DDD	Heptachlor Epoxide	Xylenes (total)

9.2 PRELIMINARY REMEDIATION GOALS

PRGs are concentrations of contaminants in the environmental media that, when attained, should achieve RAOs. PRGs are developed to ensure that contaminant concentration levels remaining on site are protective of human health and ecological receptors. In general, PRGs are established with consideration given to the following:

- Protecting human receptors from adverse health effects.
- Protecting the environment from detrimental impacts from site-related contamination.
- Compliance with federal and state ARARs.

9.2.1 PRGs for Soil

Soil PRGs were determined for the COCs identified in Section 9.1.4.1. These soil PRGs were based on the following criteria:

- Protection of human health from direct exposure to COCs in soil at levels exceeding PRGs.
- Protection of potential ecological receptors from direct exposure to COCs in soil at levels exceeding PRGs.

- Protection of groundwater and surface water against the migration of COCs from the soil.

PRGs for soil at PSC 47 are:

Site-Specific COCs	PRG[1] (mg/kg)
Arsenic	2.1
BaPEq	0.1
Alpha-BHC	0.0003[2]
Beta-BHC	0.001[2]
Delta-BHC	0.2[2]
4,4;-DDD	4.2
4,4'-DDT	2.9
Dieldrin	0.002[2]
Endrin	1.0[2]
Heptachlor	0.2
Heptachlor Epoxide	0.1

(1) Based upon FDEP residential SCTLs, except as otherwise noted.
(2) Based upon FDEP leachability SCTL

9.2.2 PRGs for Groundwater

Groundwater PRGs were determined for the COCs identified in Section 9.1.4.2. These groundwater PRGs were based on the following criteria:

- Protection of human health from exposure to contaminants in groundwater
- Comply with ARARs and TBCs to the extent practicable

PRGs for groundwater at PSC 47 are:

Site-Specific COC	PRG[1] (µg/L)
Aldrin	0.002
Arsenic	10
Benzene	1
alpha-BHC	0.006
beta-BHC	0.02
delta-BHC	2.1
gamma-BHC	0.2
1,1-Biphenyl	0.1
4,4'-DDD	0.1
4,4'-DDE	0.1
4,4'-DDT	0.1
Dieldrin	0.02
1,2-Dibromo-3-Chloropropane	0.2
cis-1,2-Dichloroethene	70

Site-Specific COC	PRG[1] (µg/L)
2,4-Dichlorophenol	0.3
Endrin Ketone	2.0
Ethylbenzene	30
Heptachlor Epoxide	0.2
Isopropylbenzene	0.8
2-Methylnaphthalene	28
Naphthalene	14
Pentachlorophenol	1.0
Tetrachloroethene	3.0
Trichloroethene	3.0
2,4,5-Trichlorophenol	1.0
Vinyl Chloride	1.0
Xylenes (total)	20

(1) Based on FDEP GCTLs.

9.3 GRAS AND ACTION SPECIFIC ARARS

GRAs are broadly defined remedial approaches that may be used (by themselves or in combination with one or more of the others) to attain RAOs. Action-specific ARARs and TBCs are those regulations, criteria, and guidance that must be complied with or taken into consideration during remedial activities on site.

9.3.1 GRAs

GRAs describe categories of actions that could be implemented to satisfy or address a component of an RAO for the site. Remedial action alternatives will then be composed using general response actions singly or in combination to meet the remedial action objectives. The remedial action alternatives, composed of GRAs, will be capable of achieving the RAOs for each contaminated medium at the site.

The following GRAs are considered for soil:

- No Action
- Limited Action (LUCs, Monitoring)
- Removal
- Disposal

The following GRAs are considered for groundwater:

- No Action.
- Limited Action (Natural Attenuation, LUCs, Monitoring)
- Removal
- In-Situ Treatment
- Ex-Situ Treatment
- Disposal

9.3.2 Action-Specific ARARs

Action-specific ARARs and TBCs are technology- or activity-based regulatory requirements or guidance that would control or restrict remedial action. Tables 9-5 and 9-6 present a list of federal and state action-specific ARARs and TBCs for this FS.

9.4 ESTIMATED VOLUMES OF CONTAMINATED MEDIA

For remedial action purposes, preliminary volumes of contaminated media were estimated from samples that contained concentrations of COCs that exceeded PRGs for the current industrial site use and the hypothetical future residential site use.

9.4.1 Estimated Volumes of Contaminated Soil

The area and volume of surface soil (0 to 2 ft bls) with concentrations of COCs greater than the FDEP residential and/or leachability SCTLs (i.e., PRGs) were estimated to be approximately 92,400 square ft (ft^2) (2.12 acres) and 6,850 cubic yards (yd^3), respectively. The area and volume of subsurface soil with concentrations of COCs greater than the PRGs were estimated to be approximately 66,400 ft^2 (1.52 acres) and 7,400 yd^3, respectively. Depth of subsurface soil contamination was conservatively estimated to uniformly reach to the groundwater table at 5 ft bls. Accordingly, the total volume of soil with concentrations of COCs greater than PRGs is estimated at approximately 14,250 yd^3.

For this FS, the industrial SCTLs are also used as the direct exposure criteria instead of the residential SCTLs and together with the leachability SCTLs for the development of active remedial actions that address existing unacceptable human health risks under the current industrial site use. The area and volume of surface soil with concentrations of COCs greater than the FDEP industrial and/or leachability SCTLs were estimated to be approximately 69,250 ft^2 (1.59 acre) and 5,100 yd^3, respectively. The area and volume of subsurface soil with concentrations of COCs greater than the FDEP industrial and/or leachability SCTLs were estimated to be approximately 52,000 ft^2 (1.19 acres) and 5,800 yd^3, respectively. Accordingly, the

Table 9-5
Synopsis of Federal Action-Specific ARARs and TBCs

Remedial Investigation/Feasibility Study for PSC 47
Naval Air Station Jacksonville
Jacksonville, Florida

Requirement	Citation	Status	Synopsis	Evaluation/Action to be Taken
Resource Conservation and Recovery Act (RCRA) Regulations, Identification and Listing of Hazardous Wastes	40 CFR Part 261	Potentially Relevant and appropriate for on-site treatment, storage and disposal facility (TSDF) and Applicable for off-site TSDF.	Defines the listed and characteristic hazardous wastes subject to RCRA. Appendix II contains the Toxicity Characteristic Leaching Procedure (TCLP).	These regulations would apply when determining whether waste on site is hazardous, either by being listed or by exhibiting a hazardous characteristic, as described in the regulations.
Clean Air Act (CAA) Regulations, National Ambient Air Quality Standards (NAAQSs)	40 CFR Part 50	Potentially Relevant and appropriate for on-site TSDF and Applicable for off-site TSDF.	Establishes primary (health-based) and secondary (welfare-based) air quality standards for carbon monoxide, lead, nitrogen dioxide, particulate matter, ozone, and sulfur oxides emitted from a major source of air emissions. The NAAQSs form the basis for all regulations promulgated under the CAA. However, the NAAQSs themselves are non-enforceable and are not ARARs themselves.	Site remediation activities must comply with NAAQS. The principal application of these standards is during remedial activities resulting in exposures through dust and vapors. In general, emissions from CERCLA activities are not expected to qualify as a major source, and are therefore, not expected to be applicable requirements. However, the requirements may be determined to be relevant and appropriate for non-major sources with significantly similar emissions.
RCRA Regulations, Land Disposal Restrictions (LDRs)	40 CFR Part 268	Potentially Relevant and appropriate for on-site TSDF and Applicable for off-site TSDF.	This regulation prohibits the land disposal of untreated hazardous wastes and provides criteria for the treatment of hazardous waste prior to land disposal.	Remedial actions that involve excavating, treating, and redepositing hazardous soil would comply with LDRs.
CAA National Emission Standards for Hazardous Air Pollutants (NESHAPs)	40 CFR Part 61	Potentially Applicable	NESHAPs are a set of emissions standards for specific chemicals from specific production activities.	Emissions of hazardous air pollutants would be minimized by fugitive dust control and off gas treatment if some soil was treated at a facility such as a thermal desorption facility.

Table 9-5
Synopsis of Federal Action-Specific ARARs and TBCs

Remedial Investigation/Feasibility Study for PSC 47
Naval Air Station Jacksonville
Jacksonville, Florida

Requirement	Citation	Status	Synopsis	Evaluation/Action to be Taken
CWA Regulations, National Pretreatment Standards	40 CFR Part 403	Potentially Relevant and Appropriate	Sets pretreatment standards through the National Categorical Standards of the General Pretreatment Regulations for the introduction of pollutants from non-domestic sources into publicly owned treatment works (POTWs) in order to control pollutants that pass through, cause interference, or are otherwise incompatible with treatment processes at a POTW.	If groundwater is discharged to a POTW or federally owned treatment work (FOTW), the discharge must meet local limits imposed by the POTW. A discharge from a CERCLA site must meet the POTW's pretreatment standards in the effluent of the POTW. Discharge to a POTW is considered an offsite activity and is, therefore subject to both the substantive requirements of this rule.
Air/Superfund National Technical Guidance	EPA Guidance: EPA/450/1-89/001-EPA/450/1-89/004	Potential To Be Considered	This guidance describes methodologies for predicting risks due to air release at a Superfund site.	These guidance documents would be considered when risks due to air releases from fugitive dust are being evaluated.

Table 9-6
Synopsis of State ARARs and TBCs

Remedial Investigation/Feasibility Study for PSC 47
Naval Air Station Jacksonville
Jacksonville, Florida

Requirement	Citation	Status	Synopsis	Evaluation/Action to be Taken
Florida Hazardous Waste Rules – October 1993	FAC Chapter 62-730	Potentially Applicable	Adopts by reference sections of the federal hazardous waste regulations and establishes minor additions to these regulations concerning the generation, storage, treatment, transportation and disposal of hazardous wastes.	These regulations would apply if waste on site were deemed hazardous and needs to be stored, transported, or disposed of properly.
Florida Drinking Water Standards	FAC Chapter 62-550	Potentially Applicable	This rule adopts federal primary and secondary drinking water standards.	These regulations would apply to remedial activities that involve discharges to potential sources of drinking water.
Florida Air Pollution Rules – October 1992	FAC Chapter 62-2	Potentially Relevant and Appropriate	Establishes permitting requirements for owners of operators of any source that emits any air pollutant.	These requirements are appropriate for remedial action that could result in a release of regulated contaminants to the atmosphere, such as may occur during excavation.
Florida Ambient Air Quality Standards – December 1994	FAC Chapter 62-272	Potentially Applicable	Establishes ambient air quality standards to protect human health and public welfare.	These ambient air quality standards would be met for remedial actions involving the possible release exposure of contaminants to the atmosphere.
Florida Water Well Permitting and Construction Requirements – March 1992	FAC Chapter 62-736	Applicable	Establishes minimum standards for the location, construction, repair, and abandonment of water wells. Permitting requirements and procedures are established.	The substantive requirements for permitting would be met if remedial actions involve the construction, repair, or abandonment of monitoring, extraction, or injection wells.

Table 9-6
Synopsis of State ARARs and TBCs

Remedial Investigation/Feasibility Study for PSC 47
Naval Air Station Jacksonville
Jacksonville, Florida

Requirement	Citation	Status	Synopsis	Evaluation/Action to be Taken
Florida Rules on Hazardous Waste Warning Signs – July 1991	FAC Chapter 62-736	Applicable	Requires warning signs at NPL and FDEP identified hazardous waste sites to inform the public of the presence of potentially harmful conditions.	This requirement will be met.
Florida Rules on Permits – November 1994	FAC Chapter 62-4	Potentially Applicable	Establishes procedures for obtaining permits for sources of pollution.	These substantive requirements would be met during remediation.

total volume of soil with concentrations of COCs greater than the industrial and/or leachability SCTLs is estimated at approximately 10,900 yd^3.

In addition, the industrial SCTLs are used by themselves as disposal criteria to determine which portion of any excavated soil would be identified as RCRA-hazardous. The area and volume of surface soil with concentrations of COCs greater than the FDEP industrial SCTLs were estimated to be approximately 45,500 ft^2 (1.04 acre) and 3,400 yd^3, respectively. The area and volume of subsurface soil with concentrations of COCs greater than the FDEP industrial SCTLs were estimated to be approximately 31,600 ft^2 (0.72 acres) and 3,500 yd^3, respectively. Accordingly, the total volume of soil with concentrations of COCs greater than the industrial SCTLs is estimated at approximately 6,900 yd^3.

The areas of surface and subsurface soil with concentrations of COCs exceeding the PRGs and the industrial and/or leachability SCTLs are illustrated on Figures 9-1 to 9-4. Calculations to determine the volume of contaminated soil are included in Appendix M.

9.4.2 Estimated Volume of Contaminated Groundwater

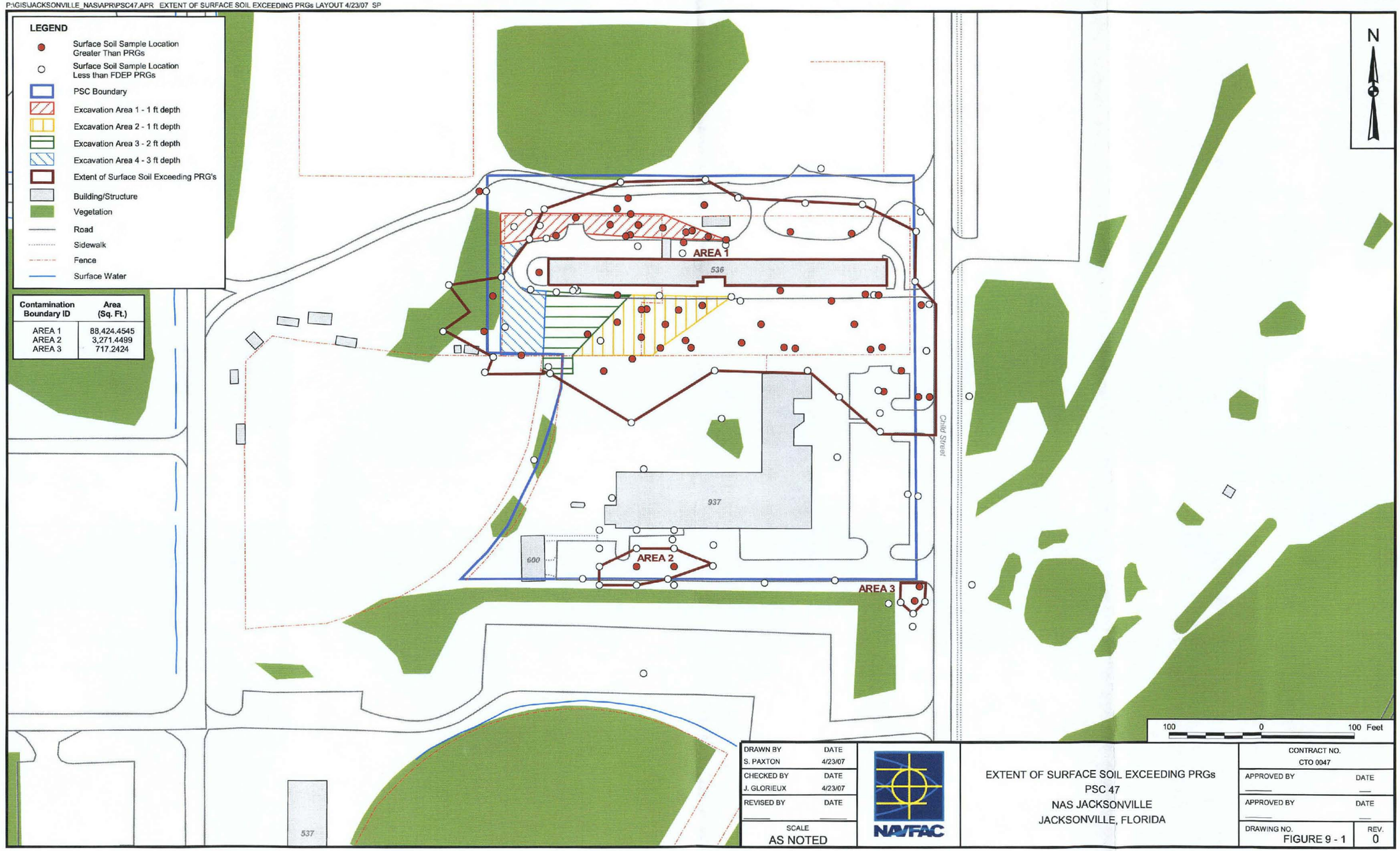
Two areas of contaminated groundwater have been identified with concentrations of COCs greater than the FDEP GCTLs and USEPA MCLs. The first area is located in the vicinity of Building 536 and is identified as the Northern Plume and the second area is located in the vicinity of Building 937 and is identified as the Southern Plume.

The Northern Plume includes monitoring wells JAX47-536-MW03, MW11S, MW12S, MW13S, MW13D, and MW25S. This plume is approximately 500 ft long by 100 to 200 ft wide extending on a west-northwest to east-southeast axis that overlaps most of Building 536. Based on an estimated average thickness of approximately 20 ft and a typical porosity of approximately 0.3, the pore volume of the Northern Plume is estimated at approximately 387,600 cubic ft (ft^3) or 2,899,000 gallons.

The Southern Plume includes monitoring wells MW01S, MW02S, MW03S, MW04S, MW05S, MW06D, MW14S, MW17S, and MW17D. This plume is approximately 300 ft long by 230 ft wide bisecting Building 937 along a north-south axis. Based on an estimated average thickness of approximately 20 ft and a typical porosity of approximately 0.3, the pore volume of the Southern Plume is estimated at approximately 414,600 ft^3 or 3,101,000 gallons. Within the Southern Plume an area located within and immediately south of Building 937 has been identified as containing the highest detections of arsenic (up to 23 mg/L) and has been designated as the Arsenic Hot Spot. The Arsenic Hot Spot includes wells MW01S, MW02S, MW03S, MW04S, MW05S, and MW06D and is approximately 10,800 ft^2 in size (0.25 acres and 117 ft in diameter). The pore volume of the Arsenic Hot Spot is estimated at approximately 64,800 ft^3 or 485,000 gallons.

The Northern and Southern Plumes and the Southern Plume Arsenic Hot Spot are illustrated on Figure 9-5. The calculations for determining the volume of contaminated groundwater are included in Appendix M.

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF SURFACE SOIL EXCEEDING PRGs LAYOUT 4/23/07 SP



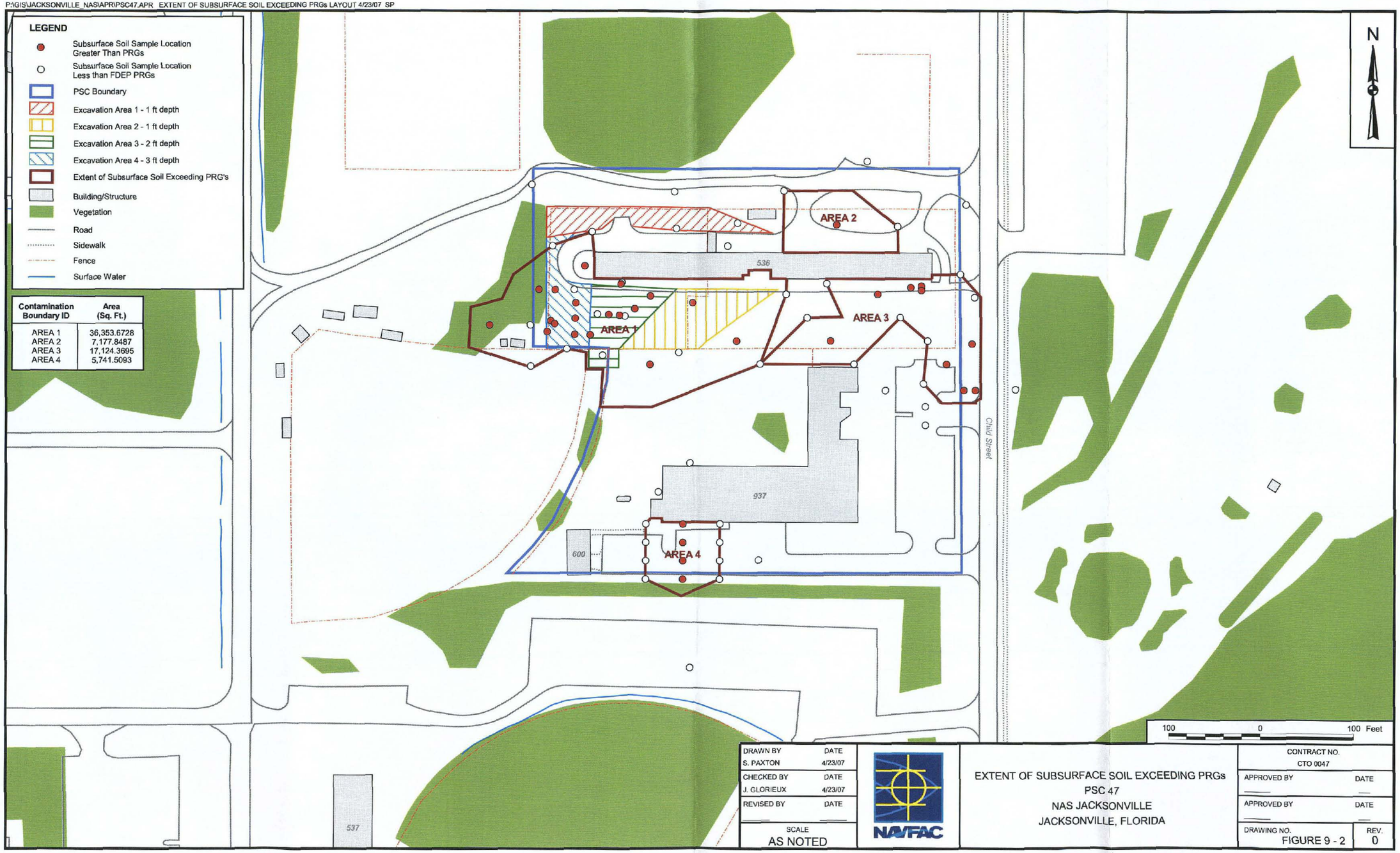
DRAWN BY	DATE
S. PAXTON	4/23/07
CHECKED BY	DATE
J. GLORIEUX	4/23/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXTENT OF SURFACE SOIL EXCEEDING PRGs
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	
CTO 0047	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 9 - 1	REV. 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF SUBSURFACE SOIL EXCEEDING PRGs LAYOUT 4/23/07 SP



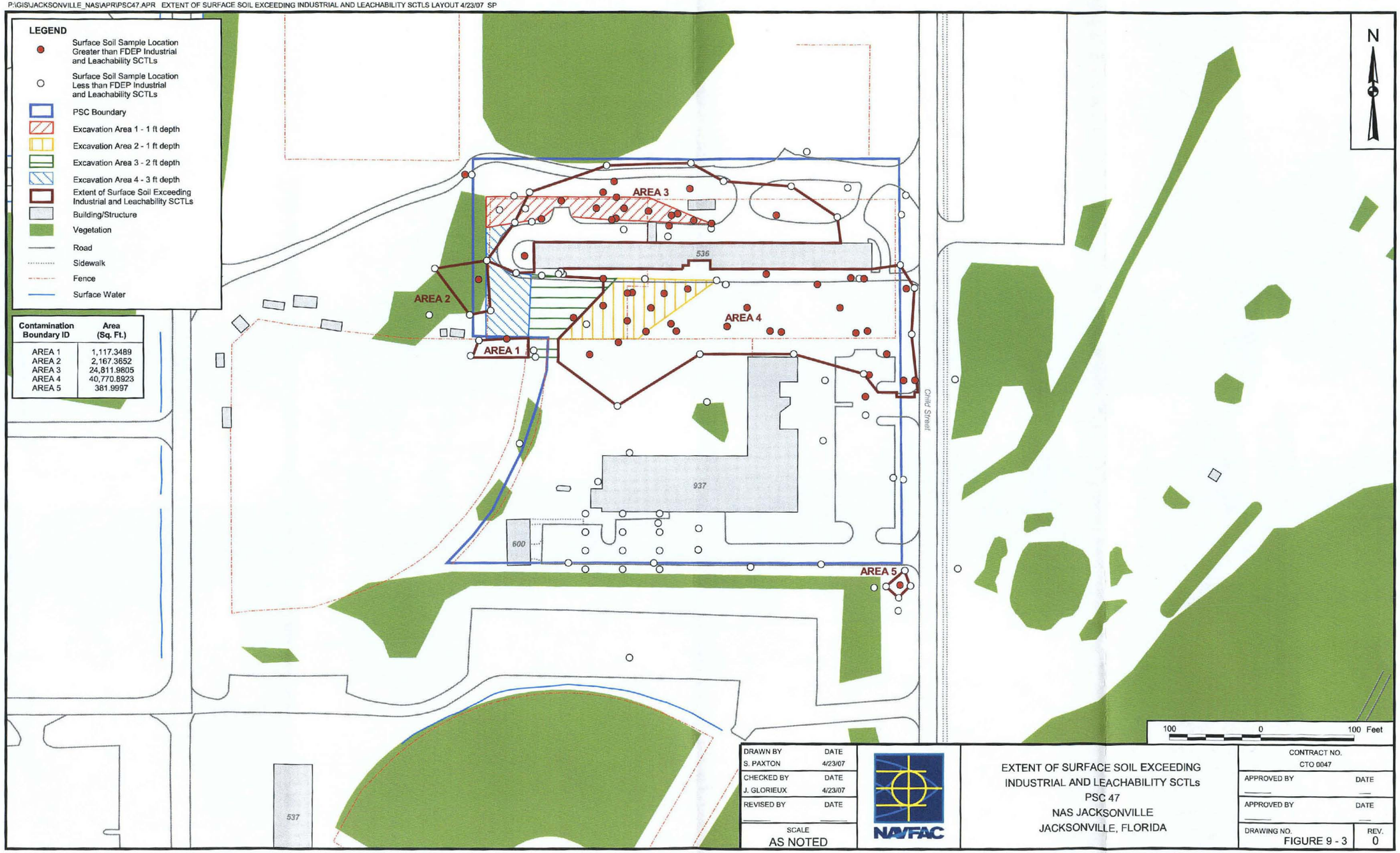
DRAWN BY	DATE
S. PAXTON	4/23/07
CHECKED BY	DATE
J. GLORIEUX	4/23/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXTENT OF SUBSURFACE SOIL EXCEEDING PRGs
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 9 - 2
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF SURFACE SOIL EXCEEDING INDUSTRIAL AND LEACHABILITY SCTLS LAYOUT 4/23/07 SP



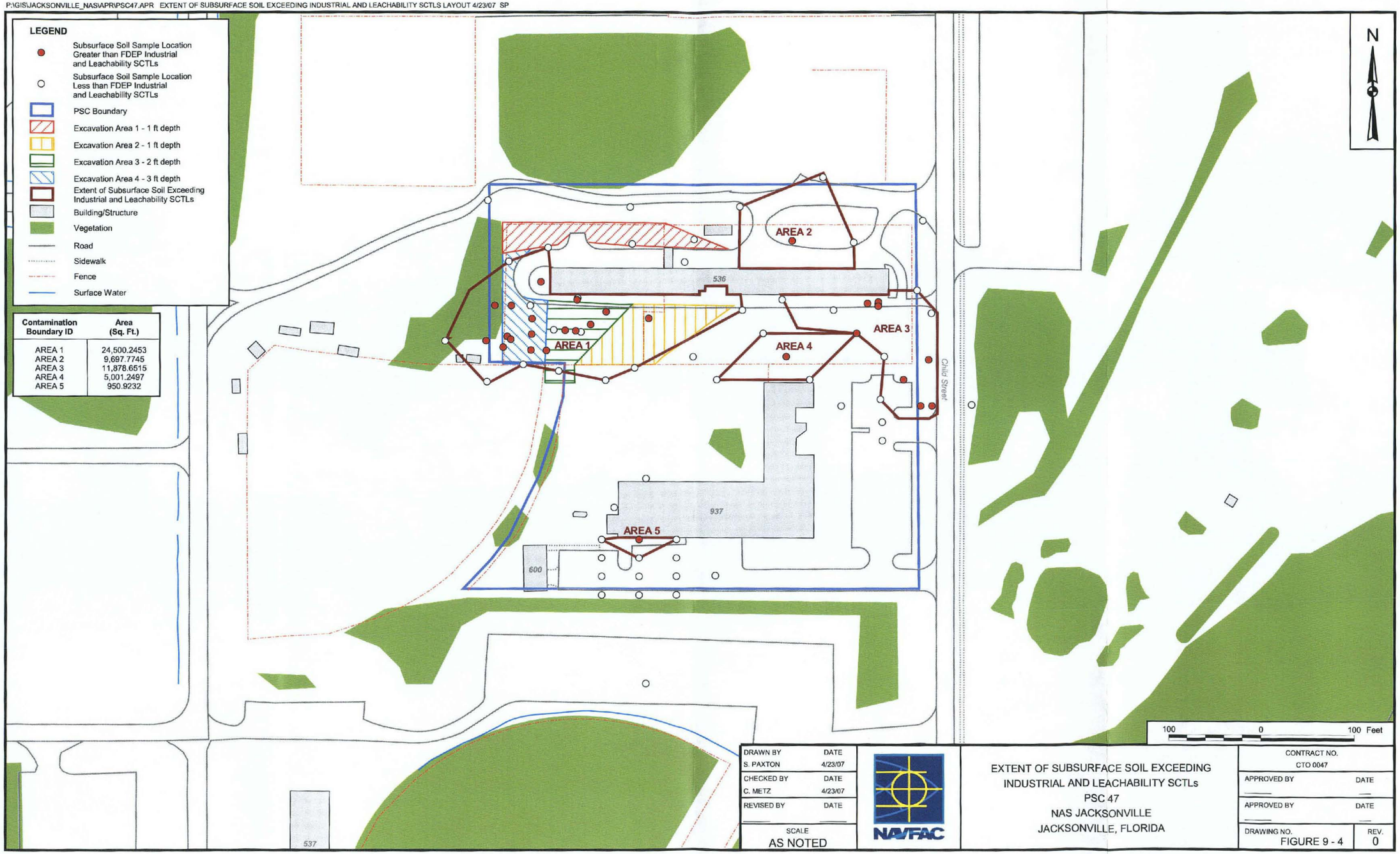
DRAWN BY	DATE
S. PAXTON	4/23/07
CHECKED BY	DATE
J. GLORIEUX	4/23/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXTENT OF SURFACE SOIL EXCEEDING INDUSTRIAL AND LEACHABILITY SCTLs
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 9 - 3
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF SUBSURFACE SOIL EXCEEDING INDUSTRIAL AND LEACHABILITY SCTLS LAYOUT 4/23/07 SP



Contamination Boundary ID	Area (Sq. Ft.)
AREA 1	24,500.2453
AREA 2	9,697.7745
AREA 3	11,878.6515
AREA 4	5,001.2497
AREA 5	950.9232

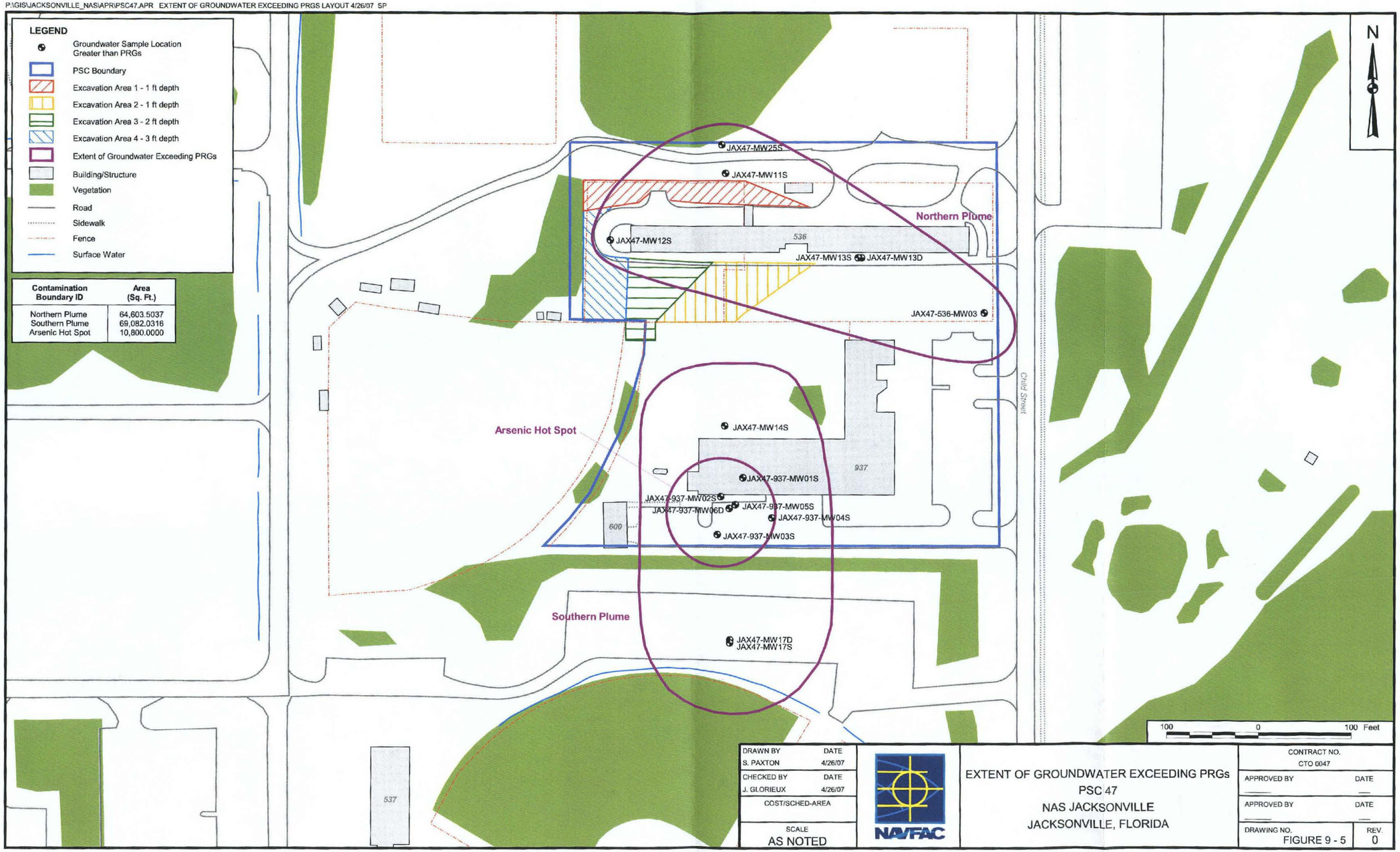
DRAWN BY	DATE
S. PAXTON	4/23/07
CHECKED BY	DATE
C. METZ	4/23/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

EXTENT OF SUBSURFACE SOIL EXCEEDING INDUSTRIAL AND LEACHABILITY SCTLs
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 9 - 4
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF GROUNDWATER EXCEEDING PRGS LAYOUT 4/26/07 SP



10.0 SCREENING OF REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS

This section identifies, screens, and evaluates the potential remediation technologies and process options that may be applicable to assemble soil and groundwater remedial alternatives for PSC 47 at NAS Jacksonville. The primary objective of this phase of the FS is to develop an appropriate range of remedial technologies and process options that will be used for developing remedial alternatives.

The basis for remediation technology identification and screening began in Section 9.0 with a series of discussions that included the following:

- Identification of ARARs
- Development of RAOs
- Identification of GRAs
- Identification of areas and volumes of media of concern

Remediation technology screening is performed in this section with the completion of the following analytical steps:

- Identification and screening of remediation technologies and process options
- Evaluation and selection of representative process options

In this section a variety of remediation technologies and process options is first identified for each of the GRAs listed in Section 9.3.1 and then screened. The selection of remediation technologies and process options for initial screening is based on the "Guidance for Conducting Remedial Investigations/Feasibility Studies under CERCLA" (USEPA, 1988). The screening is first conducted at a preliminary level to focus on relevant remediation technologies and process options. Then the screening is conducted at a more detailed level based on certain evaluation criteria. Finally, process options are selected to represent the remediation technologies that have passed the detailed evaluation and screening.

The evaluation criteria for detailed screening of remediation technologies and process options that have been retained after the preliminary screening are effectiveness, implementability, and cost. The following are descriptions of these evaluation criteria:

- Effectiveness
  - Protection of human health and environment; reduction in toxicity, mobility, or volume; and permanence of solution.
  - Ability of the technology to address the estimated areas or volumes of contaminated medium.
  - Ability of the technology to attain the PRGs required to meet the RAOs.
  - Technical reliability (innovative versus well-proven) with respect to contaminants and site conditions.

- Implementability
  - Overall technical feasibility at the site.
  - Availability of vendors, mobile units, storage and disposal services, etc.
  - Administrative feasibility.
  - Special long-term considerations (e.g., maintenance and operation requirements).

- Cost (Qualitative)
  - Capital cost.
  - Operation and maintenance (O&M) costs.

10.1 PRELIMINARY SCREENING OF SOIL REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS

This section identifies and screens remediation technologies and process options for soil at a preliminary stage based on implementation with respect to site conditions and COCs. Table 10-1 summarizes the preliminary screening of technologies and process options applicable to soil. It presents the general response actions, identifies the technologies and process options, and provides a brief description of each process option followed by the screening comments.

Table 10-1
Preliminary Screening of Soil Remediation Technologies and Process Options

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

General Response Action	Remedial Technology	Process Option	Description	Screening Comment
No Action	None	Not applicable	No activities conducted at the site to address contamination.	Required by law. Retain for baseline comparison to other technologies.
Limited Action	Land Use Controls (LUCs)	Institutional Controls: Deed or Land Use Restrictions	Administrative action using property deeds or other land use prohibitions to restrict future site activities.	Retain. Would minimize risk from exposure to contaminated soil.
		Engineering Controls: Physical Barriers/ Security Guards	Fencing, markers, warning signs, and monitoring to restrict site access.	Retain. Would minimize risk from exposure to contaminated soil. Site access is already controlled.
	Monitoring	Sampling and Analysis	Sampling and analysis of soil and groundwater for chemicals of concern (COCs).	Retain. Would allow tracking of potential migration of soil COCs and evaluation of the progress of remedial actions.
Containment	Capping	Soil/Multimedia Cover	Installation of a semi-permeable or impermeable barrier over contaminated soil.	Retain. Would be effective to minimize direct exposure and potential migration of soil COCs to other media.
Removal	Bulk excavation	Excavation	Use of construction equipment such as backhoe, front-end loader, gradall, etc. to remove contaminated soil.	Retain. Would be effective to remove contaminated soil.
In-situ Treatment	Biological	Anaerobic/Aerobic Treatment	Inoculation of microorganisms and nutrients to enhance naturally-occurring biodegradation of COCs.	Eliminate. Pesticides are very persistent and can only be biodegraded under carefully controlled that are not practical to implement in-situ. Arsenic is not biodegradable.

Table 10-1
Preliminary Screening of Soil Remediation Technologies and Process Options

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

General Response Action	Remedial Technology	Process Option	Description	Screening Comment
In-situ Treatment (continued)	Physical/ Chemical	Soil Flushing	Use of water or other solvents to remove COCs by flushing and collecting and treating/disposing of the wash fluids.	Eliminate. Would be impractical because of the shallowness of the groundwater table. Would not remove pesticides.
		Dynamic Underground Stripping	Injection of steam at the periphery of the contaminated area to volatilize COCs and removal of these COCs through a centrally located extraction well.	Eliminate. Pesticides and arsenic are not volatile and this technology mostly applies to highly-contaminated soil.
		Soil Vapor Extraction	Use of vacuum and possibly air sparging to volatilize COCs.	Eliminate. Pesticides and arsenic are not volatile.
		Chemical Stabilization/ Solidification	Mixing of chemical agents in the vadose zone to chemically stabilize the COCs and/or solidify the surrounding soil matrix.	Eliminate. Would probably immobilize arsenic, but not pesticides.
	Thermal	Vitrification/ Radiofrequency Heating	Use of moderate to high temperature to either volatilize COCs or to fuse them into a glass matrix.	Eliminate. Would be impractical because of the shallowness of the groundwater table.
Ex-situ Treatment	Physical/ Chemical	Soil Washing/Solvent Extraction	Use of water or other solvents to remove COCs by flushing and collecting and treating/disposing of the waste fluids.	Eliminate. Could remove arsenic, but not pesticides.
		Chemical Stabilization/ Solidification	Mixing of chemical agents to chemically stabilize the COCs and/or solidify the surrounding soil matrix.	Retain. Could immobilize arsenic and pesticides.
		On-site Landfarming	Spreading and tilling of contaminated soil into layers of clean surface soil to aerate and biodegrade organic COCs.	Eliminate. Would not remove arsenic. Pesticides are more likely to biodegrade under anaerobic conditions. No on base area is available for this purpose.

Table 10-1
Preliminary Screening of Soil Remediation Technologies and Process Options

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

General Response Action	Remedial Technology	Process Option	Description	Screening Comment
Ex-Situ Treatment (continued)	Biological (continued)	Bioslurry Reactor/Biopile	Treatment of soil in a bioslurry reactor or biopile under controlled conditions using natural or cultured microorganisms to biodegrade organic COCs.	Eliminate. Could be effective for the removal of pesticides but would not remove arsenic.
	Thermal	Incineration	Use of high temperatures to destroy COCs.	Retain. Would destroy pesticides and evaporate arsenic.
		Low-Temperature Thermal Desorption (LTTD)	Use of low to moderate temperatures to evaporate COCs and remove them from soil.	Retain. Would evaporate pesticides and might sublimate arsenic.
	Solids Processing	Crushing/Grinding	Size reduction of wastes as a preliminary process to aid in downstream treatment.	Eliminate. The soil to be excavated is not anticipated to contain significant large debris that would require this kind of pre-treatment.
		Screening	Removal/segregation of material based on size as a preliminary process to aid in downstream treatment.	Eliminate. The soil to be excavated is not anticipated to contain significant large debris that would require this kind of pre-treatment.
Disposal	Landfill	On-Site Landfilling	Disposal of excavated soil in an on-base landfill.	Eliminate. No suitable on-base area is available for this purpose.
		Off-Site Landfilling	Disposal of excavated soil and treatment residues in an off-base permitted treatment, storage, and disposal facility (TSDF).	Retain. Would provide an environmentally-safe disposal for contaminated soil.

The following are the soil remediation technologies and process options retained for detailed screening:

General Response Action	Remediation Technology	Process Option
No Action	None	Not Applicable
Limited Action	Land Use Controls (LUCs)	Institutional Controls (ICs) Engineered Controls (ECs)
	Monitoring	Sampling and Analysis
Containment	Capping	Multimedia Cover
Removal	Bulk Excavation	Excavation
Ex-situ Treatment	Physical/Chemical	Off-Site Chemical Stabilization/Solidification
	Thermal	Off-Site Incineration
		Off-Site Low-Temperature Thermal Desorption (LTTD)
Disposal	Landfill	Off-Site Landfilling

10.2 DETAILED SCREENING OF SOIL REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS

10.2.1 No Action

No Action consists of maintaining status quo at the site. As required under CERCLA regulations, the No Action alternative is carried through the FS to provide a baseline for comparison of alternative and their effectiveness in mitigating risks posed by site contaminants. Since no remedial actions are taken under this alternative, there are no costs associated with "walking away from" the site. There is also no reduction in risk through exposure control or treatment. No action would not be effective in evaluating contaminant mobility and potential migration off-site since no monitoring would be performed.

Effectiveness

No Action would not be effective in meeting the RAOs. No Action would not be effective in evaluating either potential contaminant reduction through natural attenuation or potential contaminant migration off-site since no monitoring would be performed.

Implementability

There would be no implementability concerns since no action would be implemented.

Cost

There would be no costs associated with No Action.

Conclusion

No Action is retained because of NCP requirements although it would not be effective.

10.2.2 Limited Action

The technologies considered under this GRA include LUCs and monitoring.

10.2.2.1 Land Use Controls

LUCs are designed to protect public health and the environment from residual contamination at environmental sites. LUCs consist of administrative or legal mechanisms (e.g., zoning restrictions, permits, etc.) designated as institutional controls (ICs) and/or engineered or physical controls (e.g., fencing, security guards, etc.) designated as engineering controls (ECs). Site-specific LUCs are typically formulated through a LUC Remedial Design (RD) that is prepared following the Record of Decision (ROD). LUCs typically also include the performance of regular site inspection to verify their continued implementation.

Effectiveness

LUCs consisting of site use and site access restrictions would effectively minimize unacceptable risks from direct exposure of human receptors with contaminated soil. LUCs would not be effective to protect ecological receptors from potential exposure to contaminated soil but, since PSC 47 constitutes a relatively unlikely ecological habitat, unacceptable risks to ecological receptors would be minimal.

Implementability

LUCs would be easy to implement on a military facility where access is already restricted. A LUC RD could be readily prepared. Resources are readily available for the preparation of deed restrictions.

Cost

Capital and O&M costs for LUCs would be low.

Conclusion

LUCs are retained for the development of soil remedial alternatives.

10.2.2.2 Monitoring

Monitoring would consist of sampling and analyzing soil and groundwater throughout the area of potential contamination to evaluate potential for migration of soil COCs either off-site or to other media, particularly groundwater.

Effectiveness

Monitoring alone would not reduce the toxicity, mobility, or volume of contaminants in the soil. However, monitoring would allow for a determination to be made of the potential off-site migration of contaminants or of the potential reduction in contaminant concentrations through natural attenuation.

Implementability

Monitoring would be easy to implement. Such monitoring has already been performed on several occasions at PSC 47. The resources and material required for monitoring are readily available.

Cost

Capital and O&M costs of monitoring would be low.

Conclusion

Monitoring is retained for the development of soil remedial alternatives.

10.2.3 Containment

The only technology considered under this GRA is capping. Capping would consist of installing an impervious cover system over the contaminated soil to prevent direct contact with that soil and to minimize infiltration thought it.

Effectiveness

Capping is a well-established and proven technology that would be effective to prevent direct exposure to the contaminated soil. A cap would also be effective to minimize the potential for migration of soil COCs

either through leaching to groundwater or off-site erosion. Long-term maintenance of the cap and long-term monitoring would ensure that the continued effectiveness of the cap.

Implementability

Installation of a cap at PSC 47 would require careful planning and execution. Materials and services required to implement this technology are readily available. Because of the site topography and the need to maintain normal access to existing buildings, cap installation would require the excavation and off-site disposal of a certain amount of contaminated soil. The construction of a cap would also restrict the future use of the site, but this would not be a problem as long as PSC 47 remains part of a military facility as currently foreseen. Risk of workers exposure to contaminated soil during the cap construction would be adequately mitigated by the wearing of appropriate personal protective equipment (PPE) and by compliance with the Occupational Safety and Health Administration (OSHA) regulations and with site-specific health and safety procedures. Adverse impact on the surrounding community and the environment as a result of the installation of a cap could also be adequately mitigated by the implementation of ECs such as dust suppression and air quality monitoring.

Cost

Capital and O&M costs for capping would be moderate.

Conclusion

Capping is retained for the development of soil remedial alternatives.

10.2.4 Removal

The only technology considered under this GRA is excavation. Excavation can be performed by a variety of equipment, such as tractor shovels (front-end loaders), backhoes, grade-alls, etc. The type of equipment selected must take into consideration several factors, such as the type of material to be removed, the load-bearing capacity of the ground surrounding the removal area, the depth and areal extent of removal, the required rate of removal, and the elevation of the groundwater table. Excavation is the technology of choice for the removal of well consolidated material, such as soil, to depth of up to 30 ft and from well-defined areas of ground with significant load bearing capacity (i.e., greater than 1,500 pounds per ft^2).

The logistics of excavation must take into account the available space for operating the equipment, loading/unloading to transport the removed material, location of the site, etc. Once excavation is completed, the location is filled and graded with clean fill material or treated soils. Because of the

proximity to occupied buildings, dust and debris produced as a result of the remedial action would have to be strictly controlled.

Effectiveness

Excavation is a very well-established and proven technology that would be extremely effective for the removal of contaminated soil at PSC 47. Properly planned and implemented excavation would remove soil with concentrations of COCs greater than PRGs and remaining soil would not pose an unacceptable risk to human health or the environment. Sampling either via pre-characterization or post excavation is typically required to verify the effectiveness of excavation. These samples would be analyzed for COCs to ensure that the remaining soil is not contaminated at unacceptable levels.

Implementability

Excavation of contaminated soil at PSC 47 would be easy to implement. Excavation equipment and/or services are readily available from multiple vendors or contractors. This technology is well proven and established in the construction/remediation industry. Since the depth of excavation would be limited to that of the groundwater table, which typically occurs at approximately 5 ft bls, the need for shoring and dewatering would be minimal. Care would have to be taken not to undermine the foundations of existing buildings. Risk of workers exposure to contaminated soil during excavation would be adequately mitigated by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health and safety procedures. Adverse impact on the surrounding community and the environment would be adequately mitigated by the implementation of engineering controls such as dust suppression and air quality monitoring.

Cost

Capital cost of excavation at PSC 47 would be moderate. There would be no O&M costs associated with this technology.

Conclusion

Excavation is retained for the development of soil remedial alternatives.

10.2.5 Ex-Situ Treatment

The technologies considered under this GRA include technologies that might be required as part of disposal at an off-site treatment, storage, and disposal facility (TSDF) including chemical stabilization/solidification, incineration, and low-temperature thermal desorption (LTTD).

10.2.5.1 Off-Site Chemical Stabilization/Solidification

Chemical stabilization consists of mixing contaminated soil with chemical reagents that modify the COCs to render them less soluble and hence less mobile. Chemical solidification consists of mixing contaminated soil with chemical reagents that bind the COCs within the matrix of the material being treated. The most common stabilization reagents are phosphates, carbonates, hydroxides, and sulfates. The most common solidification reagents are pozzolanic-based materials such as Portland cement, cement kiln dust (CKD), and fly ash. Other reagents such as thermoplastic binders (i.e., asphalt); sorbents such as granular activated carbon (GAC), clays, zeolites, anhydrous sodium silicate; and MAECTITE® have also been successfully used for chemical stabilization/solidification.

The mixing of the material to be treated with the chemical reagents is normally accomplished in the presence of a controlled amount of water and with specialized mechanical blending equipment such as a pug mill. After the material is mixed with the chemical reagents, it is typically allowed to cure for the stabilization or solidification process to take full effect. In the case of chemical solidification, the treated material may either be allowed to cure as a monolithic block, or it can be made into a granular material with the consistency of a soil-cement.

Chemical stabilization/solidification may require pre-treatment for the removal of oversized materials that would not be adequately blended with the chemical reagents and would interfere with the treatment process.

Effectiveness

Chemical stabilization/solidification is a well-established and proven technology, but its effectiveness is highly dependent on the type of material being treated and the type of COCs being immobilized. A thorough physical and chemical characterization of the material to be treated and COCs to be immobilized is needed and treatability testing is typically required to determine the most suitable stabilization/solidification reagents, the mixing ratios, and any special pretreatment or material handling methods that may be required.

At PSC 47, pozzolanic fixation/solidification would very likely be effective for the treatment of soil contaminated with arsenic, SVOCs, and low concentrations of pesticides. Soil contaminated with high concentration of pesticides would most likely require the use of a specialized agent. Because chemical stabilization/solidification would not eliminate contaminant toxicity, the treated soil would still require proper disposal to minimize the unacceptable human health risk that could result from direct exposure. Chemical stabilization/solidification would effectively minimize the potential for migration of COCs from the soil to other environmental media, such as groundwater. Long-term stability and leachability of the

treated soil would remain as potential concerns because COCs would remain within the treated soil. Most chemical stabilization/solidification processes, including in particular the use of pozzolanic reagents result in an increase in the volume of the treated material typically ranging from 5 to 15 percent.

Implementability

Off-site chemical stabilization/solidification would be easy to implement. The necessary equipment and resources are available at most permitted TSDFs to perform this work. Treatability tests would be required to determine the appropriate mix ratios prior to implementation.

Cost

O&M costs of off-site stabilization/solidification would be moderate. Because application of this technology would be contracted as a service there would be no capital costs.

Conclusion

Off-site chemical stabilization/solidification is retained for the development of soil remedial alternatives.

10.2.5.2 Off-Site Incineration

Incineration is a thermal oxidation process that converts organic solids, liquids, and gases to inorganic substances at high temperatures in the presence of oxygen. The technology uses controlled flame combustion in an enclosed reactor to decompose organics. Carbon and hydrogen waste components are converted to carbon dioxide (CO_2) and water, respectively. Other combustion products are also present in smaller quantities. These may include carbon monoxide, nitrogen oxides, chlorine, fluorine, and trace metals. If a wet scrubber air pollution control system is used, a liquid waste stream could also be generated. Screening of the contaminated material would be required to remove the noncombustible waste/debris from the soils. The noncombustible waste/debris must be treated or disposed of by other means, depending upon the level of contamination associated.

Rotary kilns are one of the most widely used incinerators for wastes in the form of solids, sludges, liquids, and gases. An integrated system for incineration by rotary kiln includes a solid feed system, a rotary kiln and secondary combustion chamber, air pollution control units for particulate and acid gas removal, and an exhaust stack. Such a system employs a refractory-lined rotary kiln operating at high temperatures (1,470 to 2,910°F or 800 to 1,600°C) to combust wastes in the presence of oxygen. A typical throughput for a transportable rotary kiln is 75 to 200 tons per day. For wastes that have high heat content, the throughput may be limited by the capacity of the unit to control the heat generation rate. Fixed-based units, such as cement kilns that may be permitted to accept contaminated soils, are also available.

Effectiveness

Incineration is a well-established and proven technology that would be very effective for destroying the organic COCs in the soil such as pesticides, VOCs, and SVOCs. Incineration would typically achieve in excess of 99.99 percent destruction of these types of COCs with the resulting formation of inert carbon dioxide and water. However, incineration would not destroy or remove arsenic, although a certain portion of it might sublimate at high temperature.

Implementability

Off-site incineration would be relatively easy to implement. Qualified TSDFs are available to provide this service. Pre-treatment of the excavated material for size separation and/or reduction would most likely be required and could be accomplished on site. Off-gases from the thermal desorption unit would have to be treated. Pre-approval of the material to be incinerated by the TSDF would be required and trial burn might be necessary as well.

Cost

O&M cost of off-site incineration would be high to very high. Because application of this technology would be contracted as a service there would be no capital costs.

Conclusion

Off-site incineration is eliminated from further consideration because, although it would very effectively destroy pesticides and SVOCs, it would not sufficiently remove arsenic and this degree of treatment is not required to successfully deal with the relatively moderate concentrations of organic COCs in the PSC 47 soil.

10.2.5.3 Off-Site Low Temperature Thermal Desorption

LTTD uses direct or indirect heating to desorb or volatilize organic COCs. The temperatures used are contaminant- and matrix-specific, with a range of approximately 200 to 1,200°F (95 to 650°C). Typically, wastes are processed through an externally fired pug mill or rotary drum system equipped with heat transfer surfaces that are heated by circulating hot oil. An induced airflow conveys the desorbed organic chemicals through a secondary treatment system, such as a GAC adsorption unit, a catalytic oxidation unit, a condenser unit, or even an afterburner. It should be noted, however, use of an afterburner for secondary treatment has typically resulted in the LTTD unit being considered as an incinerator by regulatory agencies. The off-gas is then discharged through a stack.

Effectiveness

LTTD is a well-established and proven technology, but its effectiveness is highly contaminant- and matrix-specific. Therefore, a full characterization of the soil to be treated would be required and treatability testing would have to be performed to verify the level of effectiveness and determine the optimum operating temperature and detention time. LTTD effectiveness is very sensitive to particle size, therefore, pre-treatment would likely be required with size separation and crushing-grinding-shredding.

LTTD would likely be effective for the removal of the organic COCs from contaminated soil at PSC 47 and, because these COCs include low-volatility pesticides and SVOCs, the operating temperature would be expected to be towards the higher end of the range (probably 800 to 900º F). However, LTTD would not remove arsenic from contaminated soil.

To be fully effective, LTTD would require additional treatment of the volatilized contaminants which would be accomplished through treatment of off-gases by such processes as condensation, vapor-phase GAC adsorption, or catalytic oxidation.

Implementability

Off-site treatment of contaminated soil with LTTD would be implementable. Qualified TSDFs would be readily available to provide the necessary services. Pre-treatment of the excavated material for size separation and/or reduction might be required and could also be accomplished off-site. Off-gases from the thermal desorption unit would have to be treated. Treatability testing may have to be performed.

Cost

O&M costs of off-site LTTD would be moderate. Because application of this technology would be contracted as a service there would be no capital costs.

Conclusion

Off-site LTTD is retained for the development of soil remedial alternatives.

10.2.6 Disposal

The only technology considered under this GRA is off-site landfilling. Off-site landfilling consists of transporting the excavated soil for burial in a permitted off-site TSDF. RCRA non-hazardous waste may be disposed at a RCRA Subtitle D, or solid waste, landfill. RCRA-hazardous waste must be disposed at a RCRA Subtitle C, or hazardous waste, landfill.

Various analytical tests are used to determine the appropriate type of landfill to be used, the most common of which is the USEPA TCLP. However, based on the procedure followed for removal actions at Florida sites similar to PSC 47, excavated soil would be analyzed for COCs and the results of this analysis compared to the FDEP industrial SCTLs. If any of the detected concentrations of soil COCs exceeds the industrial SCTLs, the excavated soil would be identified as RCRA-hazardous and would be disposed at a RCRA Subtitle C hazardous waste landfill. If no concentrations of COCs exceed the industrial SCTLs, the excavated soil would be identified as RCRA-non hazardous and disposed at a RCRA Subtitle D solid waste landfill.

Effectiveness

Landfilling does not permanently or irreversibly reduce contaminant concentrations. However, although CERCLA preference for treatment relegates landfilling to a less preferable option, this technology can be an effective disposal option for contaminated soil. Landfills are only permitted to operate if they meet certain requirements of design and operation governing foundation, liner, leak detection, leachate collection and treatment, daily cover, post-closure inspections and monitoring, etc., which ensure the effectiveness of these facilities. The requirements of a RCRA Subtitle C hazardous waste landfill are typically more stringent than those of a RCRA Subtitle D solid waste landfill.

Implementability

Off-site landfilling would be easy to implement. Permitted RCRA Subtitle C hazardous waste landfills and RCRA Subtitle Subtitle D solid waste landfills are available for this purpose. Disposal at either type of landfill may require certain pre-treatment, mainly the removal of free liquids. However, based on the results of previous removal actions at PSC 47, it is assumed that no pre-treatment would be required. A waste profile would have to be prepared, including indication of contaminant concentrations and their leachability. Adverse impact on the surrounding community and the environment as a result of the off-site transportation of contaminated soil would be adequately mitigated by adherence to spill prevention procedures and by compliance with DOT regulations.

Cost

O&M cost of off-site disposal would be low to moderate for a RCRA Subtitle D solid waste landfill and moderate to high for a RCRA Subtitle C hazardous waste landfill. Because application of this technology would be contracted as a service there would be no capital costs.

Conclusion

Disposal at an off-site permitted RCRA Subtitle C or D landfill is retained for the development of soil remedial alternatives.

10.3 SELECTION OF SOIL REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS

The following remediation technologies and process options are retained to develop soil remedial alternatives:

- No Action
- Limited Action: LUCs and Monitoring
- Containment: Capping
- Removal: Excavation
- Ex-Situ Treatment (if required as part of disposal): Off-Site Chemical Stabilization/Solidification and Off-Site LTTD
- Disposal: Off-Site RCRA Subtitle C or D Landfill

10.4 PRELIMINARY SCREENING OF GROUNDWATER REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS

This Section identifies and screens remediation technologies and process options for groundwater at a preliminary stage based on implementation with respect to site conditions and contaminants of concern. Table 10-2 summarizes the preliminary screening of remediation technologies and process options applicable to groundwater. This table presents the GRAs, identifies the remediation technologies and process options, and provides a brief description of each process option followed by a screening comment.

Table 10-2
Preliminary Screening of Groundwater Remediation Technologies and Process Options

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

General Response Action	Technology	Process Options	Description	Screening Comment
No Action	None	Not Applicable	No activities conducted at site to address contamination.	Required by law. Retain for baseline comparison to other technologies.
Limited Action	Land Use Controls (LUCs)	Institutional Controls: Deed Restrictions	Administrative action to restrict current and future use of groundwater. Could be used as No Further Action (NFA) With Controls under Chapter 62-780, Florida Administrative Code (FAC.), Risk-Based Corrective Action (RBCA) Risk Management Option (RMO) Level III.	Retain. Would effectively minimize human exposure to contaminated groundwater. The Northern and Southern Plumes might qualify for RBCA RMO Level III.
	Monitoring	Sampling and Analysis	Periodic sampling and analysis of groundwater and other media.	Retain. Would be required to evaluate potential migration of chemicals of concern (COCs) and/or progress of remediation.
	Natural Attenuation	Naturally-Occurring Processes.	Decrease in COCs concentrations as a result of naturally-occurring processes (dilution, dispersion, biodegradation).	Retain. Chlorinated volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) naturally attenuate and arsenic and pesticides might.
Containment	Vertical Barriers	Slurry Wall or Sheet Piling	Low-permeability wall formed in a perimeter trench to restrict horizontal migration of groundwater.	Eliminate. Would not remove COCs which have shown little tendency to migrate. Existing structures would severely restrict constructability and the depth of the nearest impervious layer makes this technology impractical.
		Hydraulic Barrier	Use of extraction wells and/or collection trenches to restrict horizontal migration of groundwater.	Eliminate. Would not remove COCs which have shown little tendency to migrate. No suitable area exists reasonably close to site for reinjection.

Table 10-2
Preliminary Screening of Groundwater Remediation Technologies and Process Options

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

General Response Action	Technology	Process Options	Description	Screening Comment
Removal	Groundwater Extraction	Extraction Wells or Collection Trenches	Array of conventional pumping wells or permeable trenches used to remove contaminated groundwater.	Retain. Could be effective to remove contaminated groundwater, particularly from the arsenic hot spot in the Southern Plume.
In-situ Treatment	Biological	Enhanced Bioremediation	Enhancement of natural biodegradation processes by addition of oxygen or hydrogen releasing compounds (ORC or HRC) and/or bacterial cultures.	Retain. Would be effective for the removal of organic COCs. Optional metal removal compound (MRC) technology might also remove arsenic.
		Gas infusion	Enhancement of biodegradation by injection of oxygen and/or alkane gases (iSOC process).	Eliminate. Would be effective for the removal of organic COCs. Would not be effective for arsenic.
	Physical/ Chemical	Permeable Reactive Barrier (PRB)	Use of a permeable barrier that allows the passage of groundwater and reacts with the COCs.	Eliminate. Contaminant plumes are not very mobile. Also this technology would probably not be effective for all COCs.
		Oxidation and Precipitation	Injection of specialized chemical reagents into the contaminant plumes to oxidize and de-solubilize COCs.	Retain. Would immobilize arsenic. Could also remove some organic COCs such as VOCs and SVOCs.
		Air Sparging / Vapor Extraction (AS/VE)	Volatilization and biodegradation enhancement through injection of air and extraction of vapors.	Eliminate. Most COCs are not volatile (SVOCs, pesticides, arsenic) and iSOC process would be more effective for biodegradation enhancement.
Ex-situ Treatment(1)	Biological	Aerobic/Anaerobic	Use of fixed- or suspended-growth medium biological reactor under oxygen-rich or oxygen-deficient conditions to degrade COCs.	Eliminate. Would not be effective for arsenic.

Table 10-2
Preliminary Screening of Groundwater Remediation Technologies and Process Options

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

General Response Action	Technology	Process Options	Description	Screening Comment
Ex-situ Treatment[(1)] (continued)	Physical/ Chemical	Sedimentation	Separation of solids from water via gravity settling.	Eliminate. Based on available data, this level of treatment would not be necessary to remove suspended solids from extracted groundwater.
		Coagulation/ Flocculation	Use of chemicals to neutralize surface charges and promote attraction of colloidal particles to facilitate settling.	Eliminate. Based on available data, this level of treatment would not be necessary to remove suspended solids from extracted groundwater.
		Neutralization/pH Adjustment	Use of acids or bases to counteract excess pHs.	Retain. Could be required as pretreatment step or final step prior to discharge.
		Filtration	Separation of suspended solids from water via entrapment in a bed of granular medium or membrane. Filter medium can also be used to react with COCs to oxidize and/or precipitate them (greensand).	Retain. Oxidative filtration would be effective for the removal of arsenic. Straight filtration might also be required as a pretreatment step prior to potential treatment processes.
		Air Stripping	Contact of water with air to remove volatile compounds.	Eliminate. Would not be effective for arsenic removal.
		Adsorption	Removal of dissolved COCs via adsorption onto bed of reactive material such as granular activated carbon (GAC) or activated alumina.	Retain. Activated alumina would remove arsenic. GAC could remove arsenic and other COCs.
		Ion Exchange (IX)	Percolation on bed of resin that holds ions in active sites and exchanges these for the COCs.	Retain. Would be effective for the removal of arsenic. Efficiency is affected by high concentrations of competing ions.

Table 10-2
Preliminary Screening of Groundwater Remediation Technologies and Process Options

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

General Response Action	Technology	Process Options	Description	Screening Comment
Ex-situ Treatment(1) (continued)	Physical/ Chemical (continued)	Solvent Extraction	Separation of contaminants from a solution by contact with an non-miscible liquid with a higher affinity for the COCs.	Eliminate. Would not be effective for removal of arsenic.
		Enhanced Oxidation	Contact with strong oxidation reagents such as ozone, and hydrogen peroxide, in combination with ultra violet (UV) radiation..	Retain. Would effectively transform arsenic from soluble trivalent oxidation state to insoluble less mobile pentavalent oxidation state.
		Chemical Precipitation	Use of chemical reagents to convert soluble constituents into insoluble constituents.	Retain. Would effectively remove arsenic. Meeting of very low Preliminary Remedial Goal (PRG) would require very efficient separation of precipitated material.
Disposal(1)	Surface Discharge	Direct Discharge to surface water	Discharge of treated water to a local water body (ditch, culvert, pond).	Eliminate. No local water body or ditch is available for this purpose.
		Indirect Discharge to off-site facility	Discharge of collected/treated water to a local treatment facility.	Retain. A local treatment facility would be available to receive treated groundwater.
	Subsurface Discharge	Reinjection	Use of injection wells, spray irrigation, or infiltration to discharge collected/treated groundwater underground.	Eliminate. Groundwater is too shallow for effective injection. No suitable reinjection area is located reasonably close to site.

NOTE:

(1) Because groundwater extraction would be specifically targeted to the remediation of the Southern Plume and more specifically toward the capture of the Arsenic Hot Spot within that plume, the ex-situ treatment and disposal technologies only apply to the Southern Plume groundwater and the ex-situ treatment technologies are focused on arsenic removal.

The following are the groundwater remediation technologies and process options remaining for detailed screening:

General Response Action	Remediation Technology	Process Options
No Action	None	Not Applicable
Limited Action	Land Use Controls (LUCs)	Institutional Controls
	Monitoring	Sampling and Analysis
	Natural Attenuation	Naturally-Occurring Processes
Removal (Southern Plume)	Groundwater Extraction	Extraction Wells or Trenches
In-situ Treatment	Biological	Enhanced Bioremediation
	Physical/Chemical	Chemical Oxidation and Precipitation
Ex-Situ Treatment (Southern Plume)	Biological	Aerobic/Anaerobic Biodegradation
	Physical/Chemical	Neutralization/pH Adjustment
		Oxidative Filtration
		Adsorption
		Ion Exchange
		Enhanced Oxidation
		Chemical Precipitation
Disposal (Southern Plume)	Surface Discharge	Indirect Discharge to Treatment Facility

10.5 DETAILED SCREENING OF GROUNDWATER REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS

10.5.1 No Action

No action consists of maintaining status quo at the site. As required under CERCLA regulations, the No Action alternative is carried through the FS to provide a baseline for comparison of alternative and their effectiveness in mitigating risks posed by site contaminants. Since no remedial actions are conducted under this alternative, there are no costs associated with “walking away from” the site. Neither is there a reduction in risk through exposure control or treatment.

Effectiveness

No Action would not be effective in meeting the RAOs for the site. No Action would not be effective in evaluating either potential contaminant reduction through natural attenuation or potential contaminant migration off-site since no monitoring would be performed.

Implementability

There would be no implementability concerns since no actions would be implemented.

Cost

There would be no costs associated with No Action.

Conclusion

No Action is retained for comparison to other options.

10.5.2 Limited Action

The technologies considered under this GRA include LUCs, monitoring, and natural attenuation.

10.5.2.1 Land Use Controls

The Risk Based Corrective Action (RBCA) process presented in Chapter 62-780, FAC allows three Risk Management Option (RMO) levels under which no further action (NFA) can be considered for a site either without LUCs under RMO Level I or with LUCs under RMO Levels II and III.

PSC 47 site characteristics are such that contaminated groundwater may be managed as NFA with controls according to Chapter 62-780, FAC, RBCA RMO Level III because Option IIIA would be satisfied by these site characteristics, if the following conditions can be met: (1) historical data and modeling demonstrate that current on-site groundwater COCs concentrations have not resulted in off-site exceedances of the GCTL, and a minimum of one year of monitoring could verify this, and (2) groundwater contamination has not impacted on-site fresh or marine surface water. In addition, previous and planned future excavation of soil with the highest concentrations of COCs would remove the source of groundwater contamination.

LUCs would consist of institutional controls that would limit access to groundwater and restricting future land use. A LUC RD would be prepared and implemented, including deed restrictions to prevent residential development and to prohibit the use of the surficial aquifer groundwater for human consumption, dewatering, irrigation, heating/cooling, and industrial purposes. As part of the LUCs, regular site inspections would be performed to verify their continued implementation.

Effectiveness

LUCs would not of themselves remove groundwater COCs and restore groundwater quality. However, LUCs would effectively minimize potential human health risks associated with exposure to contaminated groundwater.

Implementability

LUCs would be easy to implement on a military facility where restrictions on access to and use of groundwater could easily be enforced. A LUC RD could be readily prepared. Resources are readily available for the implementation of administrative controls.

Cost

Capital and O&M costs of LUCs would be low.

Conclusion

LUCs are retained for the development of groundwater remedial alternatives.

10.5.2.2 Monitoring

Monitoring would consist of using sampling and analysis of groundwater throughout the area of groundwater contamination to evaluate trends in concentrations of COCs and potential migration of contaminants. Monitoring could also be used to evaluate possible natural attenuation of contaminants and/or the progress of active groundwater remediation.

Effectiveness

Monitoring would not of itself remove groundwater COCs and restore groundwater quality. However, monitoring would allow evaluation of the potential migration of groundwater COCs either off-site or to other media and the potential reduction the concentrations of these COCs either through natural attenuation or as a result of active remediation. As a result, monitoring is an effective and indispensable remedial technology.

Implementability

A groundwater monitoring program would be easy to implement at PSC 47. Such monitoring has already been performed in a number of occasions. The resources and materials required for monitoring are readily available.

Cost

Capital and O&M costs of monitoring would be low.

Conclusion

Monitoring is retained for the development of groundwater remedial alternatives.

10.5.2.3 Natural Attenuation

Natural attenuation would consist of letting naturally-occurring processes within the surficial aquifer such as biodegradation (for organics), species alteration (for some inorganics), dilution, dispersion, or adsorption reduce the concentrations of groundwater COCs until they meet the PRGs as verified through monitoring.

Biodegradation is a process which causes an organic COC to degrade to a different compound. With biodegradation, the daughter products (i.e., degradation byproducts) can be toxic as well, so biodegradation does not always result in improved conditions.

Species alteration occurs when the valence state or ionic form of a COC is changed. An example of this occurs when groundwater bacteria aerobically degrade organic compounds and utilize electron acceptors (particularly dissolved oxygen) in the process. As the ORP decreases, the valence state of iron, manganese, chromium, and arsenic can decrease, thereby affecting their solubilities, ionic forms, toxicities, and sorption characteristics.

The processes of dilution and dispersion do nothing to reduce the total mass of the contaminants or the toxicities of the contaminants; these processes simply cause the spreading and dilution of the contaminants over time, thereby decreasing concentrations over time. Adsorption can reduce the concentrations and total mass of dissolved contaminant over time (i.e., it can immobilize a contaminant); however, consideration should be given the possibility of whether the contaminant could be remobilized at a later time (e.g., if the pH, ORP, or other physico-chemical conditions changed with time which could potentially lower the sorption coefficient of the COC).

Effectiveness

Theoretically, monitored natural attenuation should be an effective remedial technology for all of the COCs present in the PSC 47 groundwater. However, only limited groundwater monitoring analytical data (only 2 to 3 rounds) are currently available. These data sets are insufficient to determine:

- Clear trends of COC concentrations in individual groundwater monitoring wells over time.
- Whether the maximum COC concentrations are increasing or decreasing over time.
- Whether the north and south plumes are increasing in size, decreasing in size, or remaining stable over time.

The vast majority of the concentrations of COCs detected in the Northern and Southern Plumes are below the FDEP's natural attenuation default source concentrations (NADSC). In addition, based upon experience with this class of chemicals, it is likely the VOCs and SVOCs that constitute the secondary COCs of the Northern and Southern Plumes would undergo natural attenuation through biodegradation. The VOCs and the chlorinated VOCs present include two classes of COCs that are particularly amenable to biodegradation and other forms of natural attenuation. As an example, the two chlorinated solvents PCE and TCE are commonly used as degreasers. PCE can biodegrade to TCE via reductive dechlorination, and then sequentially degrade to cis-1,2-DCE and vinyl chloride. At PSC 47 the maximum concentration of cis-1,2-DCE observed in groundwater (400 µg/L) is much greater than its parent compounds (maximum concentrations of PCE and TCE are 24 and 23 µg/L, respectively). Thus, it is readily apparent that the majority of PCE and TCE mass that used to be present at the site has been degraded to cis-1,2-DCE). At least some of the cis-1,2-DCE has also degraded to vinyl chloride.

Pesticides are primary COCs that are found in both the Northern and Southern Plumes. Arsenic is another primary COC, but only in the Southern Plume. The pesticides and arsenic are far more persistent than the SVOCs and chlorinated VOCs, and are likely to require considerable time to naturally attenuate. Most of the chlorinated pesticides biodegrade at slow degradation rates. 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT are perhaps the most recalcitrant organic COCs found at the site. The primary attenuation processes of arsenic include sorption and precipitation. Arsenic does not biodegrade to nontoxic compounds, but the valence state and ionic form of this metalloid can change depending on biotic or abiotic reactions that might affect local groundwater pH and/or redox conditions.

Most chlorinated pesticides sorb relatively strongly to the soil matrix and could eventually biodegrade. Arsenic, especially if present in its pentavalent state (As[V]), also sorbs relatively strongly to soil matrices. When oxidizing conditions (e.g., ORP values above 0 mV) are present in groundwater, arsenic is usually found in the form of the arsenate anion. The divalent arsenate anion ($H_2AsO_4^-$) is stable between pH values of 3 and 7; whereas, monovalent arsenate anion ($HAsO_4^=$) is the stable form above a pH of 7 (i.e., neutral to alkaline groundwater) (Hem, 1992). The arsenate anions sorb relatively well to iron oxyhydroxides. Although ferric arsenate and some other metal arsenates have relatively low solubilities, the importance of solubility controls on arsenic in groundwater is not clearly understood.

Mildly reducing conditions favor the As (III) form of arsenic as the uncharged or monovalent arsenite anion species ($HAsO_2$ or AsO_2^-). In general, the overall solubility and mobility of all arsenic species (i.e., total arsenic) increases as pH and redox potential decrease. The shallow groundwater conditions in the vicinity of the former mixing tank on the south side of Building 937 are acidic (pH range: 4.93 – 6.41) and mildly reducing to mildly oxidizing (-45 to +211 mV). Under these conditions, the arsenic should theoretically be in both valence states. However, speciation of arsenic in groundwater samples from four wells has shown the majority of arsenic is in the reduced ionic form (i.e., arsenite). The locations where arsenic concentrations are most elevated in shallow groundwater coincide with locations where VOCs, chlorinated VOCs, and pesticides are elevated. The presence of the VOCs (BTEX) has been at relatively high concentrations in this area (see Figures 5-9 and 5-11). Degradation of the BTEX compounds could be consuming oxygen and thereby reducing the ORP and enhancing the mobility of arsenic as arsenite anions.

The Southern Plume Arsenic Hot Spot includes five shallow wells (MW01S to MW05S) and one deep well (MW06D) that are located beneath and south of Building 937. This area is approximately 117 ft in diameter. None of the three shallow (MW14S, MW15S, and MW28S) and two deep (MW14D and MW15D) monitoring wells located north and east of the hot spot (north and east of Building 937) showed arsenic concentrations above 5.2 µg/L in 2004 through 2006 (Figure 5-12). Thus, the monitoring data suggest that arsenic has not migrated far from the source area since it was released. Based on this information, the mobility of arsenic is probably lower than that of any of the VOCs and most of SVOCs. Studies conducted in Orlando Florida suggest that the retardation factor for arsenic is 21 ± 9 for As (V) and 14 ± 3 for AS (III) (TtNUS, 2001). This suggests that arsenic is strongly sorbed or retarded 21 and 14 times respective to the rate of conservative groundwater flow. Therefore, the relative immobility of the arsenic at PSC 47 is supported by data from other sites.

Implementability

Natural attenuation would be very easy to implement because it requires no action except monitoring. As noted earlier, the resources and materials required for monitoring are readily available. The only negative aspect of implementing this alternative is the time and the cost for monitoring.

Cost

Capital and O&M costs for natural attenuation would be moderate, especially if monitoring extends for 30 years or more.

Conclusion

Although there are some concerns about its effectiveness, primarily for the removal of pesticides and arsenic, natural attenuation is retained for the development of groundwater remedial alternatives.

10.5.3 Removal

The only technology considered under this GRA is groundwater extraction. Groundwater extraction can be performed with the use of extraction wells or collection trenches.

Extraction wells are drilled into the aquifer and screened below the water table to access the groundwater. Pumping is used to extract the water that collects in the wells and bring it to the surface. The process of extraction creates a hydraulic gradient that induces further flow of groundwater into the well. Extraction wells that are placed in the path of migration of a contaminant plume can be used to intercept and contain the plume. Extraction wells that are placed within a contaminated plume can be used to clean the aquifer by removing the contaminated groundwater and flushing the saturated zone. The flushing action occurs when the fresh water from upgradient (clean) areas replaces the extracted contaminated groundwater and causes more contaminants to desorb from the saturated zone soils. Thus, theoretically, the saturated zone soils progressively lose contaminants until the concentrations in the groundwater are at acceptable levels.

A collection trench is formed by excavating a ditch a few feet wide to a depth where an impermeable base is encountered. A backhoe or clamshell is common equipment used for the excavation. This excavated trench is then backfilled with permeable material, such as gravel or crushed rock. Collection pipes and pumps are then placed in the trench for water removal. Collection trenches essentially function like a line of extraction wells by creating a continuous zone of influence. Groundwater within this zone flows toward the collection points.

Extraction pumps are typically submersible, electrically operated centrifugal pumps or pneumatically operated ejector pumps. For shallow groundwater extraction (depths up to 10 ft), surface pumps may be used. Centrifugal pumps are not practical for use at low extraction rates less than 1 gallon per minute (gpm), and, in such cases, pneumatic ejector pumps are preferred.

The time required to flush contaminants out of a contaminated aquifer can range from a year to more than a century. The factors that affect flushing time and cleanup time are:

- The initial concentrations of contaminant in the groundwater and adsorbed to soil.
- The total mass of contaminant in the groundwater and adsorbed to soil.

- The volume and geometry of the contaminant plume.
- The rainfall recharge rate and the velocity of groundwater moving through the contaminated zone.
- The porosity and hydraulic conductivity of the aquifer material(s).
- The partition coefficient between the soil and groundwater (i.e., K_d), which is unique to the COC, and is different for the form of the contaminant (i.e., the chemical species), the geochemical characteristics and mineralogy of the aquifer material(s), and the geochemistry of the groundwater (e.g., pH, ORP, and ionic strength).
- The rate of contaminant desorption from the aquifer material.
- The number, location, and pumping rates of extraction wells which are removing contaminated groundwater and inducing clean water to enter the contaminated zone.

Effectiveness

Groundwater extraction is a well-established and proven technology for the capture and/or containment of groundwater contaminant plumes where the following conditions exist:

- The source of contaminants in the vadose zone is limited, and the rate of release is moderately rapid.
- Contaminants are mainly in the aqueous phase (i.e., dissolved) and easily desorb from the aquifer materials.
- The aquifer material(s) are sufficiently permeable so that extraction wells or trenches can effectively capture the migrating plume.

While the initial effectiveness of this technology for contaminant capture is high, it has often been shown to decrease over time. This decrease is generally due to one or more of several factors, including the presence of preferential flow pathways due to aquifer heterogeneity, contaminant adsorption onto aquifer materials, diffusion of contaminants into the pore spaces of low-permeability materials, and creation of stagnation zones due to pumping operations. It should be noted, however, that no such decrease over time is observed in the effectiveness of this technology for containment of contaminant plumes.

The potential effectiveness of pump-and-treat technologies is very limited for sites where the zone of contamination possesses low values of hydraulic conductivity (e.g., silts and clays), the mass of contaminant source is large and nonrecoverable, the contaminant is strongly sorbed to the aquifer or adjacent strata, or the plume is very diffuse and complex (e.g., specific migration paths are difficult to

identify). The strong adsorption of the contaminants present [e.g., organochlorine pesticides, VOCs, SVOCs, and some of the inorganic contaminants (e.g., arsenic)] in the shallow aquifer near Building 937 is a critical factor when evaluating the potential effectiveness of a pump-and-treat alternative for this site. Many of these contaminants are strongly sorbed to the aquifer (high partition coefficient), thus are very difficult to extract. Therefore cleanup of the aquifer within a reasonable time frame (e.g., 30 years) is unlikely. The factors that are largely responsible for this anticipated poor performance are discussed in greater detail in Section 10.5.2.3.

Implementability

Groundwater extraction is normally easy to implement. Numerous contractors can drill wells and excavate trenches and pumps are widely available for a variety of flow rates and aquifer conditions. However, this technology requires long-term O&M and extracted groundwater typically requires treatment and disposal. Extraction wells are typically easier to install than collection trenches, particularly in developed areas and in close proximity to existing structures such as at PSC 47. Local and/or State permit might be required for the installation of extraction wells.

Cost

Capital and O&M costs of groundwater extraction would be low to moderate.

Conclusion

Groundwater extraction is eliminated from further consideration because it would likely not be effective for contaminant mass removal. In addition, groundwater extraction is also not warranted as a containment technology because there is no evidence of off-site migration of COCs.

10.5.4 In-Situ Treatment

The technologies considered under this GRA are enhanced bioremediation and chemical oxidation and precipitation.

10.5.4.1 Enhanced Bioremediation

Enhanced bioremediation consists of using microorganisms, primarily bacteria, actinomycetes, and fungi, to breakdown hazardous organic compounds into nontoxic or less toxic forms. In-situ enhanced bioremediation includes biostimulation and bioaugmentation. Biostimulation is the most common type of in-situ enhanced bioremediation and consists of using an electron acceptor or electron donor compound to enhance the growth of indigenous aerobic or anoxic/anaerobic microorganisms, respectively.

Bioaugmentation is typically used in addition to biostimulation. Bioaugmentation consists of using a bacterial culture to increase the naturally occurring microorganism population and to provide organisms specifically targeted to the degradation of COCs.

The electron acceptor, electron donor compound, and/or bacterial culture are fed into contaminated groundwater using either multiple DPT injection well points or one or more focused groundwater recirculation systems with groundwater extraction and reinjection. Focused recirculation provides better control over the subsurface distribution of reagents, but it also requires a more complex system, especially for large plumes. DPT injection is simpler to implement and can be used over large or small areas.

Effectiveness

Enhanced bioremediation is a well-established and proven technology for the in-situ treatment of a wide range of organic contaminants in groundwater. The use of a slow-release electron donor such as food-grade vegetable oil would be effective for the removal of the pesticides, VOCs, and SVOCs that are the groundwater COCs in the Northern Plume. The basic effectiveness of this technology for the removal of pesticides has been demonstrated through bench-scale treatability testing (TtNUS, 2007), but its site-specific effectiveness for PSC 47 would have to be verified and design parameters developed through pilot-scale testing. Enhanced bioremediation would not be effective for the removal of arsenic that is the primary groundwater COC in the Southern Plume.

Implementability

Enhanced bioremediation would be relatively easy to implement. A number of qualified contractors are available to provide this service. Installation of multiple DPT injection points would not unduly interfere with current site activities. As previously mentioned, pilot-scale treatability would be required to verify the site-specific effectiveness of this technology and to develop design parameters. A permit might be required for the subsurface injection of chemicals.

Cost

Capital and O&M costs of enhanced bioremediation would be moderate.

Conclusion

Enhanced bioremediation with electron donor injection is retained for development of groundwater remedial alternatives for the Northern Plume.

10.5.4.2 Chemical Oxidation and Precipitation

In-situ chemical oxidation and precipitation consists of injecting chemical agents into a contaminant plume to chemically transform the COCs and render them either less soluble or insoluble and thus less mobile. Chemical oxidation agents include powerful oxidants such as iron-catalyzed hydrogen peroxide (known as Fenton's Reagent), sodium persulfate, or potassium permanganate. Milder oxidants such as ORC, typically magnesium peroxide, or catalytically complexed sodium percarbonate (marketed as RegenOx™) have also been successfully used. Chemical precipitation agents include iron salts, phosphates, and zero-valent iron (ZVI).

In-situ chemical oxidation and precipitation reagents are generally fed into contaminated groundwater using either multiple DPT injection well points or one or more focused groundwater recirculation systems. As mentioned in the description of in-situ bioremediation, focused recirculation provides better control over the subsurface distribution of reagents, but it also requires a more complex system, especially for large plumes. DPT injection is simpler to implement and can be used over large or small areas, but the technical difficulty and cost of installing DPT injection points becomes prohibitive when depths exceed approximately 75 ft bls.

Effectiveness

In-situ chemical oxidation and precipitation is an established and fairly well-proven technology for the immobilization of a range of metals in groundwater. A combination of a mild oxidant such as ORC with a co-precipitant such as ferric chloride or sulfate would likely be effective for the immobilization of the arsenic that is the primary COC of the Southern Plume. However, treatability testing, preferably at the pilot-scale, would be required to confirm this. There would also be a slight possibility that the arsenic that had been removed from groundwater and immobilized in the surrounding soil could be redissolved and remobilized over the long term as a result of naturally occurring changes in groundwater chemistry.

Simple in-situ chemical oxidation without precipitation and using nano-scale ZVI particles could also be effective for the removal of the pesticides that are the primary COCs of the Northern Plume. The basic effectiveness of this technology for the removal of pesticides has been demonstrated through bench-scale treatability testing (TtNUS, 2007), but its site-specific effectiveness for PSC 47 would have to be verified and design parameters developed through pilot-scale testing.

Implementability

In-situ chemical oxidation and precipitation would be relatively easy to implement. Numerous qualified contractors are available to provide this service. Installation of multiple DPT injection points would not

unduly interfere with current site activities. As previously mentioned, pilot-scale treatability would be required to verify the site-specific effectiveness of this technology and to develop design parameters. A permit might be required for the subsurface injection of chemicals.

Cost

Capital and O&M costs of in-situ chemical oxidation and precipitation for the Southern Plume with an oxygen enhancer and ferric salts would be moderate. Capital and O&M costs of in-situ chemical oxidation for the Northern Plume with nano-scale ZVI would be high because of reagent costs.

Conclusion

In-situ chemical oxidation and precipitation with an oxygen enhancer and ferric salts is retained for the development of groundwater remedial alternatives for the Southern Plume. In-situ chemical oxidation with nano-scale ZVI is eliminated from further consideration because it would not be as cost effective as enhanced bioremediation for the treatment of the Northern Plume.

10.5.5 Ex-Situ Treatment

Although, as shown on Table 10-2, a number of ex-situ treatment technologies were retained for detailed screening, none of these would be applicable to PSC 47 because the only removal technology retained for detailed screening, groundwater extraction, was eliminated from further consideration as a result of that screening (see Section 10.5.3).

10.5.6 Disposal

Although, as shown on Table 10-2, indirect discharge was retained as a disposal technology for detailed screening, it would not be applicable to PSC 47 because the only removal technology retained for detailed screening, groundwater extraction, was eliminated from further consideration as a result of that screening (see Section 10.5.3).

10.6 SELECTION OF GROUNDWATER REMEDIATION TECHNOLOGIES AND PROCESS OPTIONS

The following remediation technologies and process options are retained to develop groundwater remedial alternatives:

- No Action
- Limited Action: LUCs, Monitoring, and Natural Attenuation
- In-Situ Treatment: Enhanced Bioremediation (Northern Plume) and Oxidation and Precipitation (Southern Plume)

11.0 ASSEMBLY AND DETAILED ANALYSIS OF REMEDIAL ALTERNATIVES

11.1 INTRODUCTION

This section presents an evaluation of each remedial alternative with respect to the criteria of the NCP of 40 CFR Part 300, as revised in 1990. The criteria as required by the NCP and the relative importance of these criteria are described in the following subsections.

11.1.1 Evaluation Criteria

In accordance to the NCP (40 CFR 300.430), the following nine criteria are used for the evaluation of remedial alternatives:

Overall Protection of Human Health and the Environment
Compliance with ARARs
Long-term Effectiveness and Permanence
Reduction of Toxicity, Mobility, and Volume through Treatment
Short-term Effectiveness
Implementability
Cost
State Acceptance
Community Acceptance

Overall Protection of Human Health and the Environment

Alternatives must be assessed for adequate protection of human health and environment in both short- and long-term, from unacceptable risks posed by hazardous substances, or contaminants present at the site by eliminating, reducing, or controlling exposure to levels exceeding remediation goals. Overall protection draws on the assessments of other evaluation criteria, especially long-term effectiveness and permanence, short-term effectiveness, and compliance with ARARs.

Compliance with ARARs

Alternatives must be assessed to determine whether they attain ARARs under federal environmental laws and state environmental or facility siting laws. If one or more regulations that are applicable cannot be complied with, then a waiver must be invoked. Grounds for invoking a waiver would depend on the following circumstances.

- The alternative is an interim measure and will become part of a total remedial action that will attain the ARAR.

- Compliance will result in greater risk to human health and the environment.

- Compliance is technically impracticable from an engineering perspective.

- The alternative will attain a standard of performance that is equivalent to that required under the otherwise applicable standard, requirement, or limitation through use of another method or approach.

- A state requirement has not been consistently applied, or the state has not demonstrated the intention to consistently apply the promulgated requirement in similar circumstances at other remedial actions within the state.

- For Fund-financed response actions only, an alternative that attains the ARAR will not provide a balance between the need for protection of human health and the environment at the site and the availability of Fund monies to respond to other sites that may present a threat to human health and the environment.

Long-term Effectiveness and Permanence

Alternatives must be assessed for the long-term effectiveness and permanence they offer, along with the degree of certainty that the alternative will prove successful. Factors that shall be considered as appropriate include the following:

Magnitude of Residual Risk:

Risk posed by untreated waste or treatment residuals at the conclusion of remedial activities. The characteristics of residuals should be considered to the degree that they remain hazardous, taking into account their volume, toxicity, mobility, and propensity to bioaccumulate.

Adequacy and Reliability of Controls:

Controls such as containment systems and institutional controls that are necessary to manage treatment residuals and untreated waste must be shown reliable. In particular, the uncertainties associated with land disposal for providing long-term protection from residuals; the assessment for the potential need to replace technical components of the alternative such as a cap, a slurry wall, or a treatment system; and the potential exposure pathways and risks posed should the remedial action need replacement.

Reduction of Toxicity, Mobility or Volume through Treatment

The degree to which the alternative employs recycling or treatment that reduces the toxicity, mobility or volume shall be assessed, including how treatment is used to address the principal threats posed by the site. Factors that shall be considered, as appropriate, include the following:

The treatment or recycling processes the alternative employs and the materials that they will treat.

- The amount of hazardous substances, pollutants or contaminants that will be destroyed, treated, or recycled.

- The degree of expected reduction in toxicity, mobility or volume of waste due to treatment or recycling and the specification of which reduction(s) are occurring.

- The degree to which the treatment is irreversible.

- The type and quantity of residuals that will remain following treatment considering the persistence, toxicity, mobility, and propensity to bioaccumulate of such hazardous substances and their constituents.

- The degree to which treatment reduces the inherent hazards posed by principal threats at the site.

Short-Term Effectiveness

The short-term impacts of the alternative shall be assessed considering the following:

- Short-term risks that might be posed to the community during implementation.

- Potential impacts on workers during remedial action and the effectiveness and reliability of protective measures.

- Potential environmental impacts of the remedial action and the effectiveness and reliability of mitigative measures during implementation.

- Time until protection is achieved.

Implementability

The ease or difficulty of implementing the alternatives shall be assessed by considering the following types of factors, as appropriate:

- Technical feasibility, including technical difficulties and unknowns associated with the construction and operation of a technology, the reliability of the technology, ease of undertaking additional remedial actions, and the ability to monitor the effectiveness of the remedy.

- Administrative feasibility, including activities needed to coordinate with other offices and agencies, and the ability and time required obtaining any necessary approvals and permits from other agencies (for off-site actions).

- Availability of services and materials, including the availability of adequate off-site treatment, storage capacity, and disposal capacity and services; the availability of necessary equipment and specialists, and provisions to ensure any necessary additional resources; the availability of services and materials; and availability of prospective technologies.

Cost

Capital costs shall include both direct and indirect costs. Annual O&M costs shall be provided. A net present worth (NPW) of the capital and O&M costs shall also be provided. Typically, the cost estimate accuracy range is plus 50 percent to minus 30 percent.

State Acceptance

The state's concerns that must be assessed include the following:

- The state's position and key concerns related to the preferred alternative and other alternatives
- State comments on ARARs or the proposed use of waivers

These concerns cannot be evaluated at this time until the state has reviewed and commented on the RI/FS. These concerns will be discussed, to the extent possible, in the Proposed Plan to be issued to for public comment.

Community Acceptance

This assessment consists of responses of the community to the Proposed Plan. This assessment includes determining which components of the alternatives interested persons in the community support, have reservations about, or oppose. This assessment can be done after comments on the proposed plan are received from the public.

11.1.2 Relative Importance of Criteria

Among the nine criteria, the threshold criteria are considered to be:

Overall Protection of Human Health and the Environment
Compliance with ARARs (excluding those that may be waived)

The threshold criteria must be satisfied in order for an alternative to be eligible for selection.

Among the remaining criteria, the following five criteria are considered to be the primary balancing criteria.

- Long-term Effectiveness and Permanence
- Reduction of Toxicity, Mobility and Volume
- Short-Term Effectiveness
- Implementability
- Cost

The balancing criteria are used to weigh the relative merits of alternatives.

The remaining two of the nine criteria, namely: State Acceptance and Community Acceptance are considered to be modifying criteria that must be considered during remedy selection. These last two criteria can be evaluated after the document has been reviewed by the state of Florida and the Proposed Plan has been discussed in a public meeting. Therefore, this document addresses only seven out of the nine criteria.

11.1.3 Selection of Remedy

The selection of a remedy is a two-step process. The first step consists of identification of a preferred alternative and presentation of the alternative in a Proposed Plan to the community for review and comment. The preferred alternative must meet the following criteria.

- Protection of human health and the environment.
- Compliance with ARARs unless a waiver is justified.
- Cost effectiveness in protecting human health and environment and in complying with ARARs.
- Utilization of permanent solutions and alternate treatment technologies or resource recovery technologies to the maximum extent practicable.

The second step consists of the review of the comments and determination of whether or not the preferred alternative continues to be the most appropriate remedial action for the site, in consultation with the state of Florida.

11.2 DEVELOPMENT OF SOIL ALTERNATIVES

The following alternatives for soil remediation have been developed for PSC 47:

Alternative S-1: No Action
Alternative S-2: Capping to Allow Industrial Use and Prevent Leaching, LUCs, and Monitoring
Alternative S-3: Excavation and Off-Site Disposal to Allow Industrial Use, Capping to Prevent Leaching, LUCs, and Monitoring
Alternative S-4: Excavation and Off-Site Disposal to Allow Residential Exposure and to Prevent Leaching

Alternative S-1 was developed and analyzed to serve as a baseline for other alternatives, as required by the CERCLA and the NCP. Alternatives S-2 and S-3 were developed and analyzed to evaluate the adequacy of moderate action to address environmental concerns under current site use. Alternatives S-4 was developed and analyzed to evaluate complete contaminated soil cleanup for unrestricted site use.

A description and detailed analysis of these alternatives are provided in the following sections.

11.2.1 Alternative S-1: No Action

11.2.1.1 Description

This alternative is a "walk-away" alternative that is required under CERCLA to establish a basis for comparison with other alternatives. Under this alternative the property would be released for unrestricted use. This alternative cannot be chosen if waste remains on site.

11.2.1.2 Detailed Analysis

Overall Protection of Human Health and the Environment

Alternative S-1 would not be protective of human health and the environment. The potential for direct human and ecological exposure to contaminated soil would remain unchanged, leading to unacceptable risks under the current industrial site use and to even greater risks under a hypothetical future residential use. Soil COCs would continue to migrate to groundwater and no monitoring would be performed to assess this migration. Alternative S-1 would not meet the soil RAOs.

Compliance with ARARs and TBCs

Alternative S-1 would not comply with chemical-specific ARARs and TBCs because no action would be taken to reduce concentrations of COCs. Alternative S-1 would also not comply with location-specific ARARs. Action-Specific ARARs are not applicable.

Long-Term Effectiveness and Permanence

Alternative S-1 would not be long-term effective and permanent because it would involve no action and leave contaminated soil unchanged on site with unacceptable concentrations of COCs. In addition, because no controls would prevent a hypothetical future residential development, the potential would exist for increased risk to human and ecological receptors. Because no monitoring would be performed there would be no assessment of the migration of soil COCs to groundwater. Although concentrations of soil COCs might eventually decrease to acceptable levels through natural attenuation, no monitoring would verify this occurrence.

Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative S-1 would not reduce toxicity, mobility, or volume of the soil COCs through treatment because no treatment would occur. The toxicity and volume of the soil COCs might eventually be reduced through natural attenuation, but this would not be verified through monitoring.

Short-term Effectiveness

Because no action would occur, implementation of Alternative S-1 would not result in any short-term risks to on-site workers or adversely impact the local community and the environment.

Alternative S-1 would not meet the soil RAOs and, although the soil PRGs might eventually be achieved through natural attenuation, this would not be verified through monitoring.

Implementability

Alternative S-1 would be very easy to implement because there would be nothing to implement. The technical feasibility criteria, including constructability, operability, and reliability, are not applicable. The implementability of administrative measures is not applicable because no such measures would be taken.

Cost

There would be no costs associated with Alternative S-1.

11.2.2 Alternative S-2: Capping To Allow Industrial Use and Prevent Leaching, LUCs, and Monitoring

11.2.2.1 Description

Alternative S-2 would consist of four major components: (1) capping to allow industrial use and prevent leaching, (2) disposal of excavated soil, (3) LUCs, and (4) monitoring.

Component 1: Capping to Allow Industrial Use and Prevent Leaching

Areas of the site with concentrations of soil COCs greater than the industrial and/or leachability SCTLs would be capped with an impervious cover system to allow industrial use and to prevent leaching of soil COCs to groundwater. Pre-construction sampling would be performed to verify the exact extent of the contamination.

To maintain the current topography of the site and to allow unimpeded access to existing buildings, surface preparation of the areas to be capped would require excavation to a depth equal to the thickness of the cap. Because the planned thickness of the cap is 2 ft, this pre-excavation would result in the removal of all surface soil exceeding industrial and/or leachability SCTLs, leaving only subsurface soil with concentrations of COCs greater than industrial and/pr leachability SCTLs to be capped. The areas to be capped would be covered with a 2-ft thick layer of compacted soil with a permeability of 10^{-6} centimeters per second (cm/sec). The pre-excavated areas that do not require capping would be backfilled with clean fill. The capped and backfilled areas would be re-vegetated or re-paved to match original surface conditions.

It is estimated that approximately 6,300 yd^3 of surface soil would be excavated as part of site preparation from a total area of 85,100 ft^2 (1.95 acres). Subsequently, an estimated 52,000 ft^2 (1.19 acres) of the exposed subsurface soil would be capped and the remaining 33,100 ft^2 (0.76 acres) of excavated area

would be backfilled with 2,450 yd^3 of clean fill material. The extent of site preparation, excavation, and areas to be capped are illustrated on Figures 11-1 and 11-2, respectively.

During construction activities, ECs such as water sprinkling and environmental controls such as perimeter air quality monitoring would be implemented to ensure that fugitive dust emissions are kept to an acceptable minimum. Appropriate controls such as silt fences, sediment traps, and hay bales would also be used to minimize erosion and sedimentation. In addition, during the excavation of contaminated soil in close proximity to existing buildings, care would be taken not to undermine the foundations of these buildings.

Component 2: Disposal of Excavated Soil

To determine the proper method of disposal, composite samples would be collected from the excavated soil at the rate of approximately one sample per 100 yd^3. These samples would be analyzed for soil COCs (SVOCs, pesticides, and arsenic) to sort the excavated soil in the following three disposal categories:

- Soil with concentrations of COCs lower than the PRGs (residential or leachability SCTLs) would be identified as non-contaminated and could be re-used on site or offsite. For the purpose of this FS, it is assumed that 1,150 yd^3 of excavated soil would fall in this category.

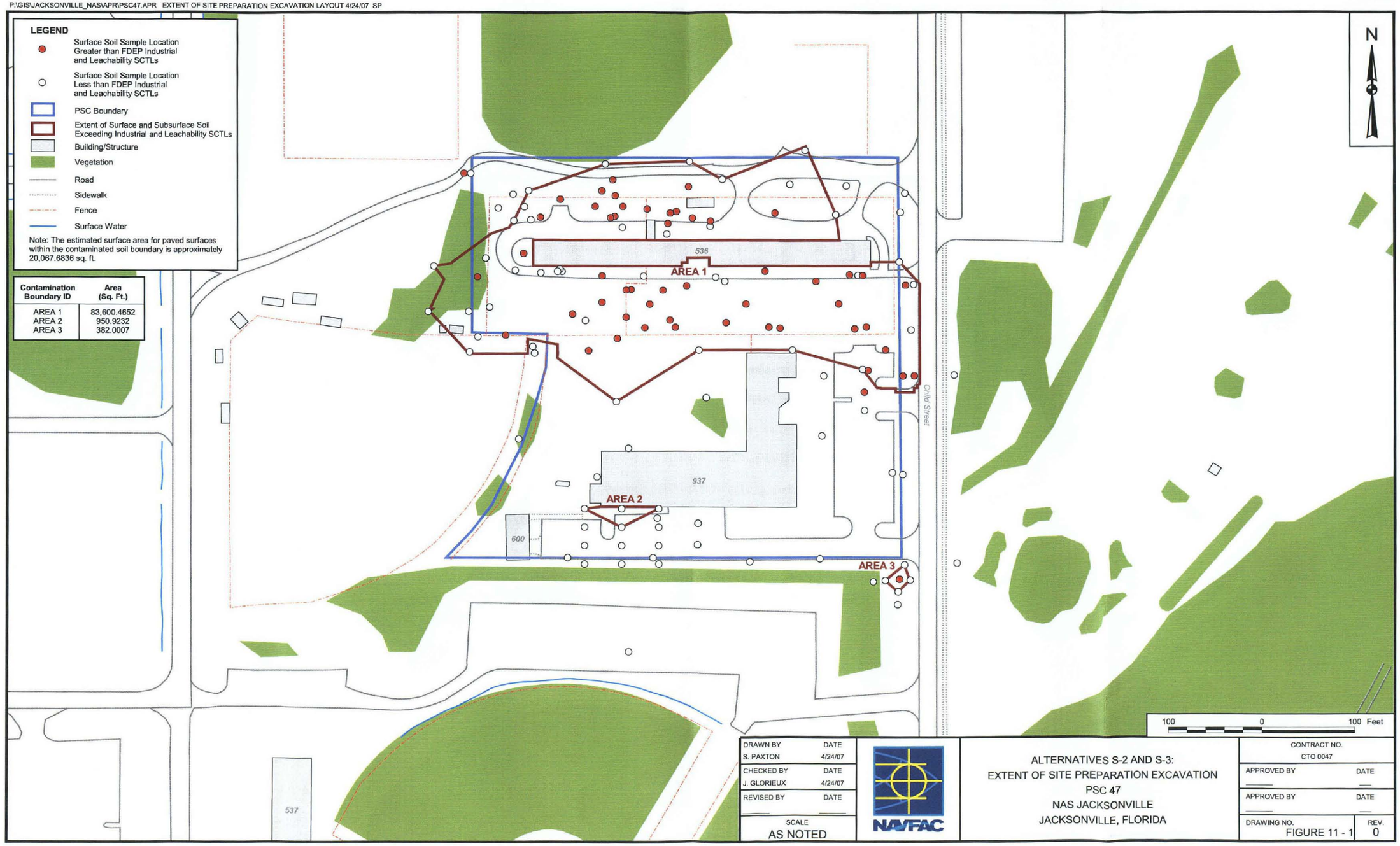
- Soil with concentrations of COCs lower than the industrial SCTLs, but greater than the PRGs would be identified as RCRA non-hazardous and would be disposed at an offsite RCRA Subtitle D solid waste landfill. For the purpose of this FS, it is assumed that 4,150 tons of excavated soil would fall in this category.

- Soil with any concentrations of COCs greater than the industrial SCTLs would be identified as RCRA hazardous and would be disposed at an off-site RCRA Subtitle C hazardous waste landfill. For the purpose of this FS, it is assumed that 1,000 tons of excavated soil would fall in this category.

During off-site transportation of contaminated soil, appropriate spill prevention and control measures would be taken and DOT regulations would be adhered to.

For the purpose of this FS, it is assumed that the contaminated soil disposed offsite would not require treatment prior to landfilling.

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF SITE PREPARATION EXCAVATION LAYOUT 4/24/07 SP



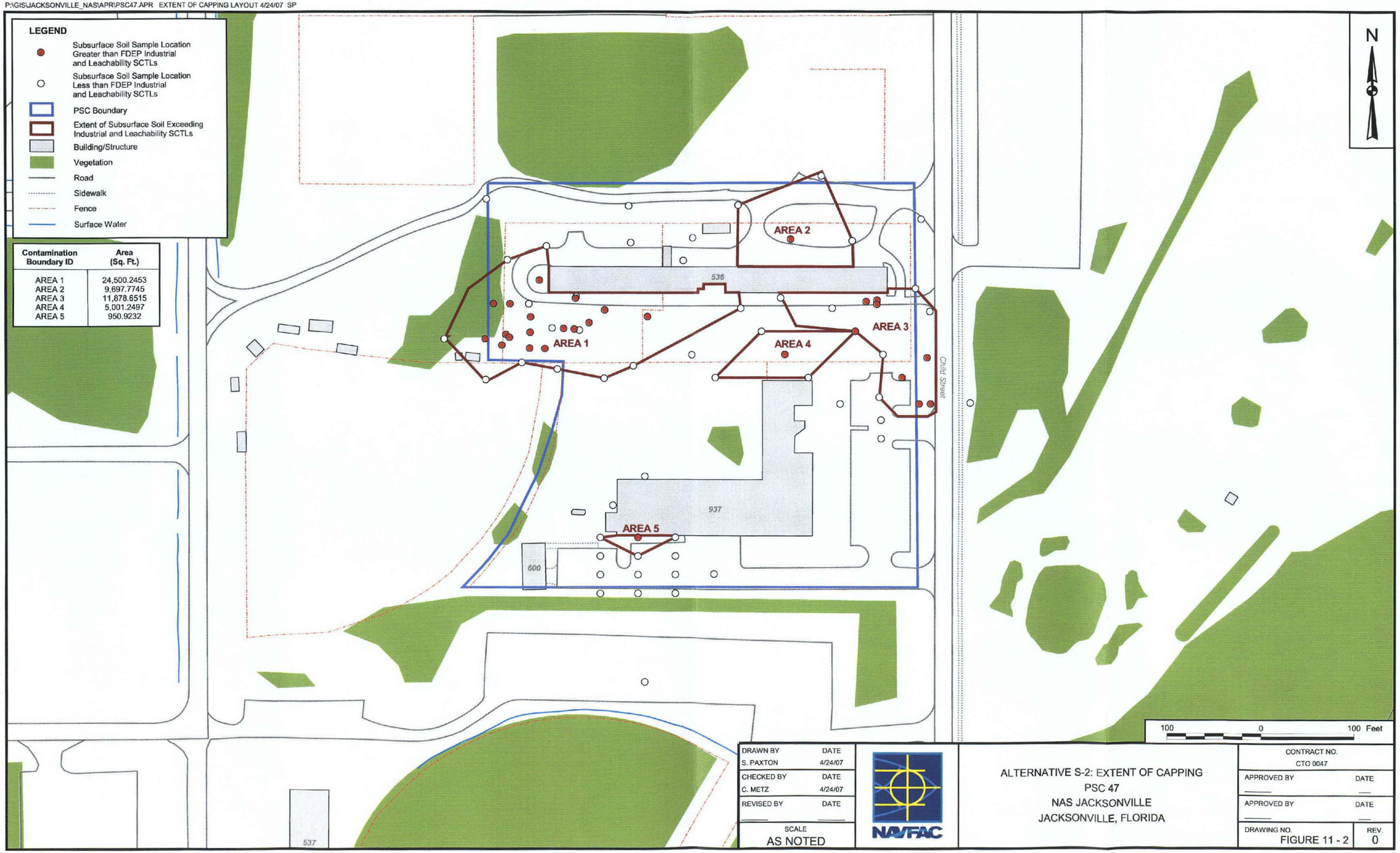
DRAWN BY	DATE
S. PAXTON	4/24/07
CHECKED BY	DATE
J. GLORIEUX	4/24/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

ALTERNATIVES S-2 AND S-3:
EXTENT OF SITE PREPARATION EXCAVATION
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 11 - 1
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF CAPPING LAYOUT 4/24/07 SP



DRAWN BY: S. PAXTON	DATE: 4/24/07
CHECKED BY: C. METZ	DATE: 4/24/07
REVISED BY	DATE
SCALE: AS NOTED	

NAVFAC

ALTERNATIVE S-2: EXTENT OF CAPPING
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. CTO 0047	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 11 - 2	REV. 0

Component 3: LUCs

A LUC RD would be prepared to establish and implement methods and procedures to prevent residential development of PSC 47. The LUC RD would also include procedures for regular inspections of the cap and maintenance and repair of that cap as may be required. In addition, regular site inspections would be performed to verify the continued implementation of the LUCs. The LUC RD and LUCs would be developed in accordance with the Navy's LUC Principles (DoD, 2003).

Component 4: Monitoring

A soil and groundwater monitoring program would be developed and implemented to verify the long-term effectiveness of the cap and to evaluate the potential migration and/or natural attenuation of soil COCs. Monitoring requirements would be determined during final design of capping. For the purposes of this FS, the following monitoring strategy is assumed for costing purposes.

A total of six soil samples would be collected from capped and un-capped areas and analyzed for SVOCs, pesticides, and arsenic. Monitoring frequency would be annually.

A total of five monitoring wells would be sampled and the collected samples would be analyzed for pesticides. Monitoring frequency would be quarterly for the first year, semi-annually for the next two years and annually thereafter.

11.2.2.2 Detailed Analysis

Overall Protection of Human Health and Environment

Alternative S-2 would be protective of human health and the environment. Placement of a cap over the area of soil with concentrations of COCs greater than the industrial SCTLs would be protective of current site users. In addition, the cap would also protect human health and the environment by minimizing the leaching of pesticides from soil to groundwater. LUCs would be protective of human health and the environment by preventing potential future residential development that could have resulted in unacceptable human health and ecological risks. Monitoring would be protective of human health and the environment by providing an assessment of on-site concentrations of COCs and a warning of their migration. Alternative S-2 would meet the soil RAOs.

Compliance with ARARs and TBCs

Alternative S-2 would not meet the chemical-specific ARARs and TBCs in the short-term. Compliance with these ARARs might eventually be achieved through natural attenuation and this would be verified

through monitoring. Alternative S-2 would comply with the location- and action-specific ARARs and TBCs.

Long-term Effectiveness and Permanence

Alternative S-2 would be long-term effective. Installation of a cap would effectively cover soil with concentrations of COCs to which current site users should not be exposed. The cap would also effectively minimize water infiltration, which is the primary pathway for migration of pesticides from soil to groundwater. LUCs would effectively prevent residential development and thus no future resident would be exposed to contaminated soil. Monitoring would be an effective mean to assess reduction of soil COCs concentrations through natural attenuation and to detect migration of soil COCs to groundwater.

Reduction of Toxicity, Mobility, and Volume through Treatment

Alternative S-2 would reduce the toxicity, mobility, and volume of the soil COCs, but not through treatment. The mobility of soil COCs would be reduced through capping and, as a result of cap construction, approximately 3,678 tons of the most highly contaminated soil would be permanently and irreversibly removed from PSC 47 and disposed offsite at a RCRA solid waste or hazardous waste landfill. In addition, the toxicity and volume of the remaining soil COCs might eventually be reduced through natural attenuation as verified through monitoring.

Short-term Effectiveness

Implementation of Alternative S-2 could result in moderate short-term risks to on-site workers as a result of exposure to contamination during soil excavation and installation of a cap and also as a result of monitoring. However, these risks would be adequately mitigated by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health and safety procedures. Alternative S-2 could also have a minimal adverse impact on the surrounding community and the environment as a result of the installation of a cap and excavation and off-site transportation of contaminated soil. This impact would also be adequately mitigated by the implementation of ECs such as dust suppression and air quality monitoring, by adherence to spill prevention procedures, and by compliance with DOT regulations.

Alternative S-2 could be completed in approximately four months and would achieve the soil RAOs at completion. The soil PRGs might eventually be met through natural attenuation and this would be determined through monitoring.

Implementability

Alternative S-2 would be easy to implement and resources, equipment, and materials would be readily available for this purpose. The capping component of this alternative could be performed with normal construction equipment by a wide range of contractors. As noted in the above detailed description of this component, preliminary excavation and off-site disposal of a certain volume of surface soil may be required prior to cap installation to maintain normal access to existing buildings. Off-site borrow locations for clean soil as well as RCRA solid waste or hazardous waste landfills for the disposal of the excavated soil would be readily available. A number of monitoring events have already been implemented at PSC 47 and additional monitoring could easily be performed.

The administrative aspects of Alternative S-2 would be simple to implement. A construction permit would have to be obtained for installation of the cap. The off-site transportation and disposal of the excavated soil would have to be properly documented, which could readily be accomplished. A LUC RD would be easy to prepare and LUCs could be readily implemented and enforced.

Cost

Estimated costs for Alternative S-2 are as follows:

Capital:	$1,708,098
30-Year NPW of O&M:	$393,000
30-Year NPW:	$2,101,098

The above figures have been rounded to the nearest $1,000 to reflect the preliminary nature of the estimates. A more detailed breakdown of these cost estimates is provided in Appendix M.

11.2.3 Alternative S-3: Excavation and Off-Site Disposal to Allow Industrial Use, Capping to Prevent Leaching, LUCs, and Monitoring

11.2.3.1 Description

Alternative S-3 would consist of four major components: (1) excavation and capping to allow industrial use and to prevent leaching. (2) disposal of excavated soil, (3) LUCs, and (4) monitoring.

Component 1: Excavation and Capping to Allow Industrial Use and to Prevent Leaching

Areas of the site with concentrations of soil COCs greater than the industrial SCTLs would be excavated to allow industrial use. Remaining areas with concentrations of soil COCs greater than the leachability

SCTLs would then be capped with an impervious cover system to prevent leaching of soil COCs to groundwater. Pre-construction sampling would be performed to verify the exact extent of the contamination.

The same 6,300 yd^3 of surface soil that were removed from a total area of 85,100 ft^2 (1.95 acres) as part of site preparation for Alternative S-2 (see Figure 11-1) would also be excavated as part of Alternative S-3. An additional estimated 3,500 yd^3 would then be excavated to the groundwater table at approximately 5 ft bls from a total area of 31,600 ft^2 (0.72 acres) of exposed subsurface soil and 20,500 ft^2 (0.47 acres) of exposed subsurface soil would be covered with the same type of 2-ft thick impervious cap as used for Alternative S-2. Figure 11-3 illustrates the areas of subsurface soil to be excavated and those to be capped. Excavated areas that are not capped would be backfilled with an estimated 7,150 yd^3 of clean fill material. The capped and backfilled areas would be re-vegetated or re-paved to match original surface conditions.

During excavation, ECs such as water sprinkling and environmental controls such as perimeter air quality monitoring would be implemented to ensure that fugitive dust emissions are kept to an acceptable minimum. The excavated areas would be backfilled as soon as possible and on-site staging and stockpiling of excavated soil would be kept to a minimum. Any on-site stockpiles of excavated soil/sediment would be covered with an impervious synthetic liner at the end of each day's work. In addition, during the excavation of contaminated soil in close proximity to existing buildings, care would be taken not to undermine the foundations of these buildings.

Component 2: Disposal of Excavated Soil

This component would be similar to Component 2 of Alternative S-2, except that the estimated volumes of soil for the three disposal categories would be: 1,150 yd^3 of non-contaminated soil, 11,350 tons of RCRA non-hazardous soil, and 1,625 tons of RCRA hazardous soil.

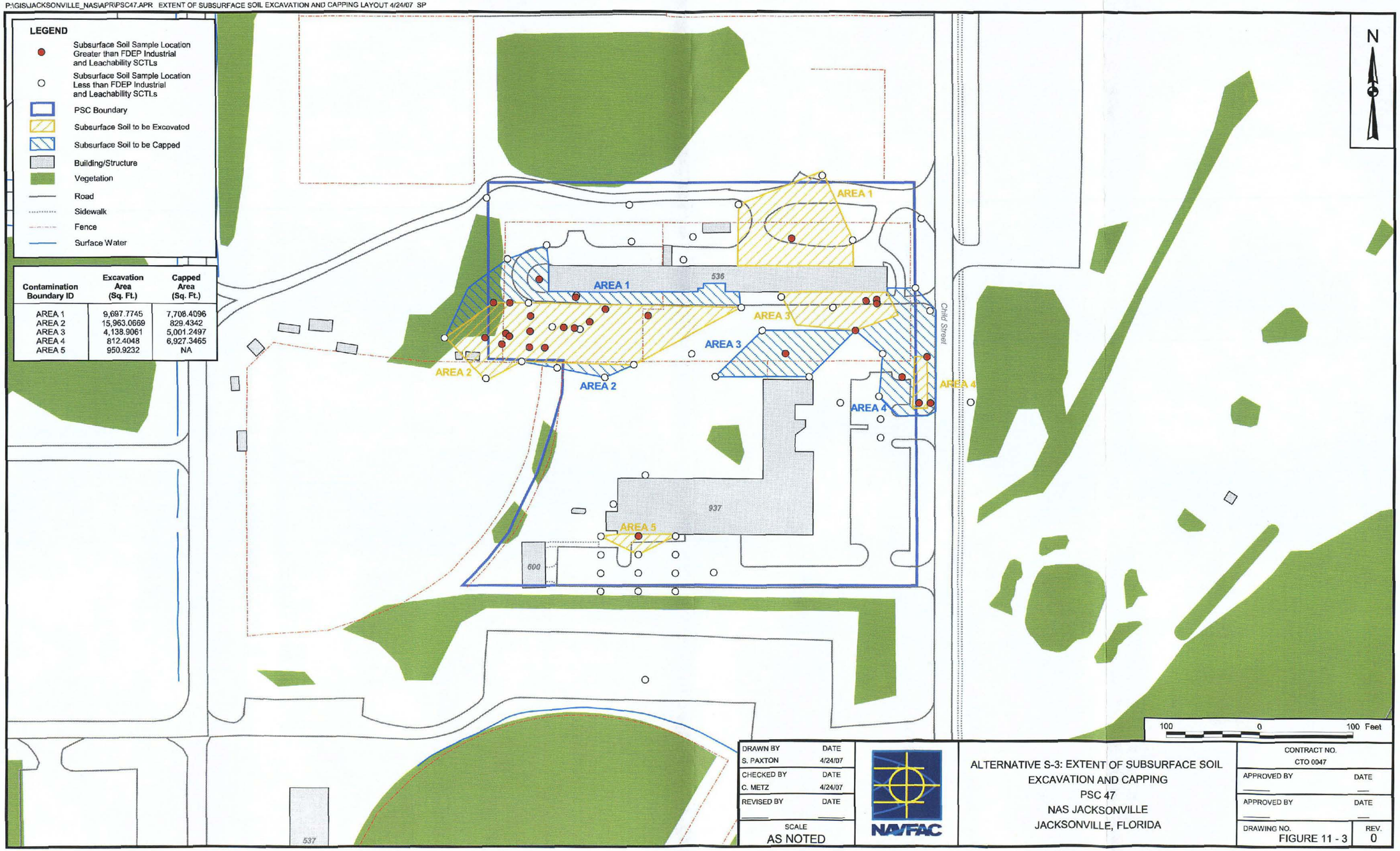
Component 3: LUCs

This component would be identical to Component 3 of Alternative S-2.

Component 4: Monitoring

This component would be similar to Component 4 of Alternative S-2, except that no soil monitoring would be performed.

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF SUBSURFACE SOIL EXCAVATION AND CAPPING LAYOUT 4/24/07 SP



Contamination Boundary ID	Excavation Area (Sq. Ft.)	Capped Area (Sq. Ft.)
AREA 1	9,697.7745	7,708.4096
AREA 2	15,963.0669	829.4342
AREA 3	4,138.9061	5,001.2497
AREA 4	812.4048	6,927.3465
AREA 5	950.9232	NA

DRAWN BY	DATE
S. PAXTON	4/24/07
CHECKED BY	DATE
C. METZ	4/24/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

ALTERNATIVE S-3: EXTENT OF SUBSURFACE SOIL EXCAVATION AND CAPPING
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	
CTO 0047	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 11 - 3	REV. 0

11.2.3.2 Detailed Analysis

Overall Protection of Human Health and the Environment

Alternative S-3 would be protective of human health and the environment. Excavation and off-site disposal of soil with concentrations of COCs greater than the industrial SCTLs would be protective of the human health under the current site use scenario. Placement of a cap over soil with concentrations of pesticides greater than their leachability SCTL would also protect human health and the environment by minimizing the leaching of pesticides from soil to groundwater. LUCs would be protective of human health and the environment by preventing potential future residential development that could have resulted in unacceptable human health and ecological risks. Monitoring would be protective of human health and the environment by providing an assessment of on-site concentrations of COCs and a warning of their migration. Alternative S-3 would meet the soil RAOs.

Compliance with ARARs and TBCs

Alternative S-3 would not meet the chemical-specific ARARs and TBCs in the short-term. Compliance with these ARARs might eventually be achieved through natural attenuation and this would be verified through monitoring. Alternative S-3 would comply with the location- and action-specific ARARs and TBCs.

Long-term Effectiveness and Permanence

Alternative S-3 would be long-term effective and permanent. Excavation and off-site disposal would effectively and permanently remove soil with concentrations of COCs to which current site users should not be exposed. Installation of a cap would effectively minimize water infiltration, which is the primary pathway for migration of pesticides from soil to groundwater. LUCs would effectively prevent residential development and thus no future resident would be exposed to contaminated soil. Monitoring would be an effective mean to assess reduction of soil COCs concentrations through natural attenuation and to detect migration of soil COCs to groundwater.

Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative S-3 would reduce the toxicity, mobility, and volume of the soil COCs, but not through treatment. Approximately 8,650 yd^3 of the most highly contaminated soil would be permanently and irreversibly removed from PSC 47 and disposed off-site at a RCRA solid waste or hazardous waste landfill. In addition, the mobility of the soil COCs most likely to leach to groundwater would be reduced through capping. The toxicity and volume of the residual soil COCs might also be eventually reduced through natural attenuation; however, no soil monitoring is planned under this alternative.

Short-term Effectiveness

Implementation of Alternative S-3 could result in moderate short-term risks to on-site workers as a result of exposure to contamination during soil excavation and installation of a cap and also as a result of monitoring. However, these risks would be adequately mitigated by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health and safety procedures. Alternative S-3 could also have a minimal adverse impact on the surrounding community and the environment as a result of the installation of a cap and excavation and off-site transportation of contaminated soil. This impact would also be adequately mitigated by the implementation of ECs such as dust suppression and air quality monitoring, by adherence to spill prevention procedures, and by compliance with DOT regulations.

Alternative S-3 could be completed within approximately five months and would achieve the soil RAOs at completion. The soil PRGs might eventually be met through natural attenuation.

Implementability

Alternative S-3 would be easy to implement and resources, equipment, and materials would be readily available for this purpose. The excavation and capping components of this alternative could be performed with normal construction equipment by a wide range of contractors. Because excavation would be limited to approximately 5 ft bls and would not extend below the water table, the need for shoring would be limited to the temporary support of exposed existing buildings foundations as may be required and there will be no need for dewatering. Off-site borrow locations for clean soil as well as RCRA solid waste and hazardous waste landfills for the off-site disposal of the excavated soil would be readily available. A number of groundwater monitoring events have been implemented at PSC 47 and additional monitoring would be easy to perform.

The administrative aspects of Alternative S-3 would be simple to implement. A construction permit would have to be obtained for soil excavation and installation of the cap. The off-site transportation and disposal of the excavated soil would have to be properly documented, which could readily be accomplished. A LUC RD would be easy to prepare and LUCs could be readily implemented and enforced.

Cost

The estimated costs for Alternative S-3 are:

Capital Cost:	$2,597,778
30-Year NPW of O&M Cost:	$274,000
30-Year NPW:	$2,871,778

A detailed cost estimate for this alternative is provided in Appendix M.

11.2.4 Alternative S-4: Excavation and Off-Site Disposal To Allow Residential Exposure and Prevent Leaching

11.2.4.1 Description

Alternative S-4 would consist of two major components: (1) excavation of soil to allow residential exposure and to prevent leaching and (2) disposal of excavated soil.

Component 1: Excavation to Allow Residential Exposure and Prevent Leaching

Areas of the site with concentrations of soil COCs greater than the residential and/or leachability SCTLs would be excavated to allow residential and to prevent leaching of soil COCs to groundwater. Pre-construction sampling would be performed to verify the exact extent of the contamination.

An estimated 8,200 yd^3 of surface soil would be excavated from a total area of 110,500 ft^2 (2.54 acres) as illustrated on Figure 11-4. An additional estimated 7,350 yd^3 would then be excavated to the groundwater table at approximately 5 ft bls from a total area of 66,400 ft^2 (1.52 acres) of exposed subsurface soil as illustrated on Figure 11-5. Excavated areas would be backfilled with an estimated 15,550 yd^3 of clean fill material. The backfilled areas would be re-vegetated or re-paved to match original surface conditions.

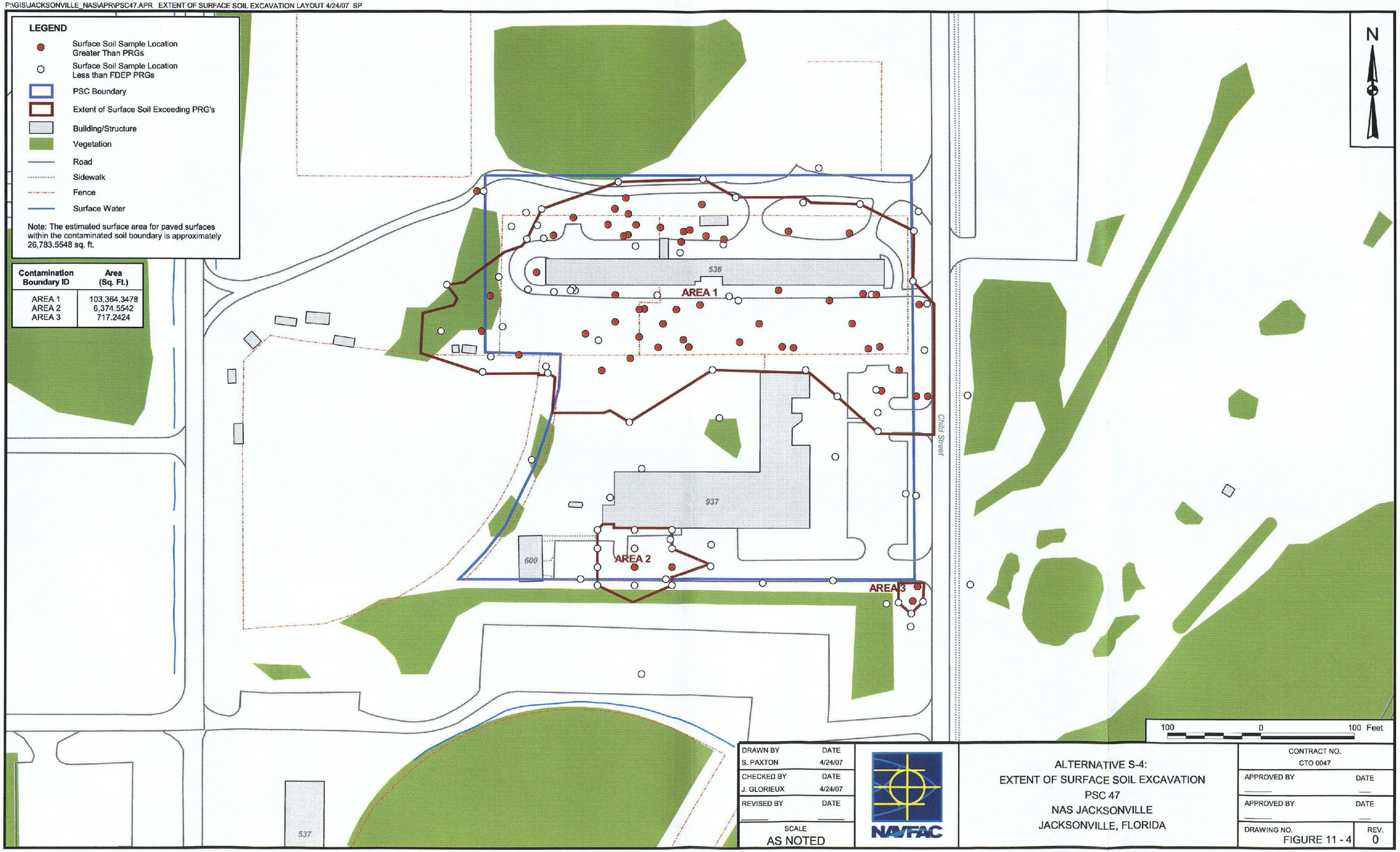
The same procedures would be followed and precautions taken as for implementation of Component 1 of Alternatives S-2 and S-3.

Component 2: Disposal of Excavated Soil

This component would be similar to Component 2 of Alternative S-2, except that the estimated volumes of soil for the three disposal categories would be: 1,300 yd^3 of non-contaminated soil, 19,750 tons of RCRA non-hazardous soil, and 1,625 tons of RCRA hazardous soil.

Rev. 1
05/18/07

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF SURFACE SOIL EXCAVATION LAYOUT 4/24/07 SP



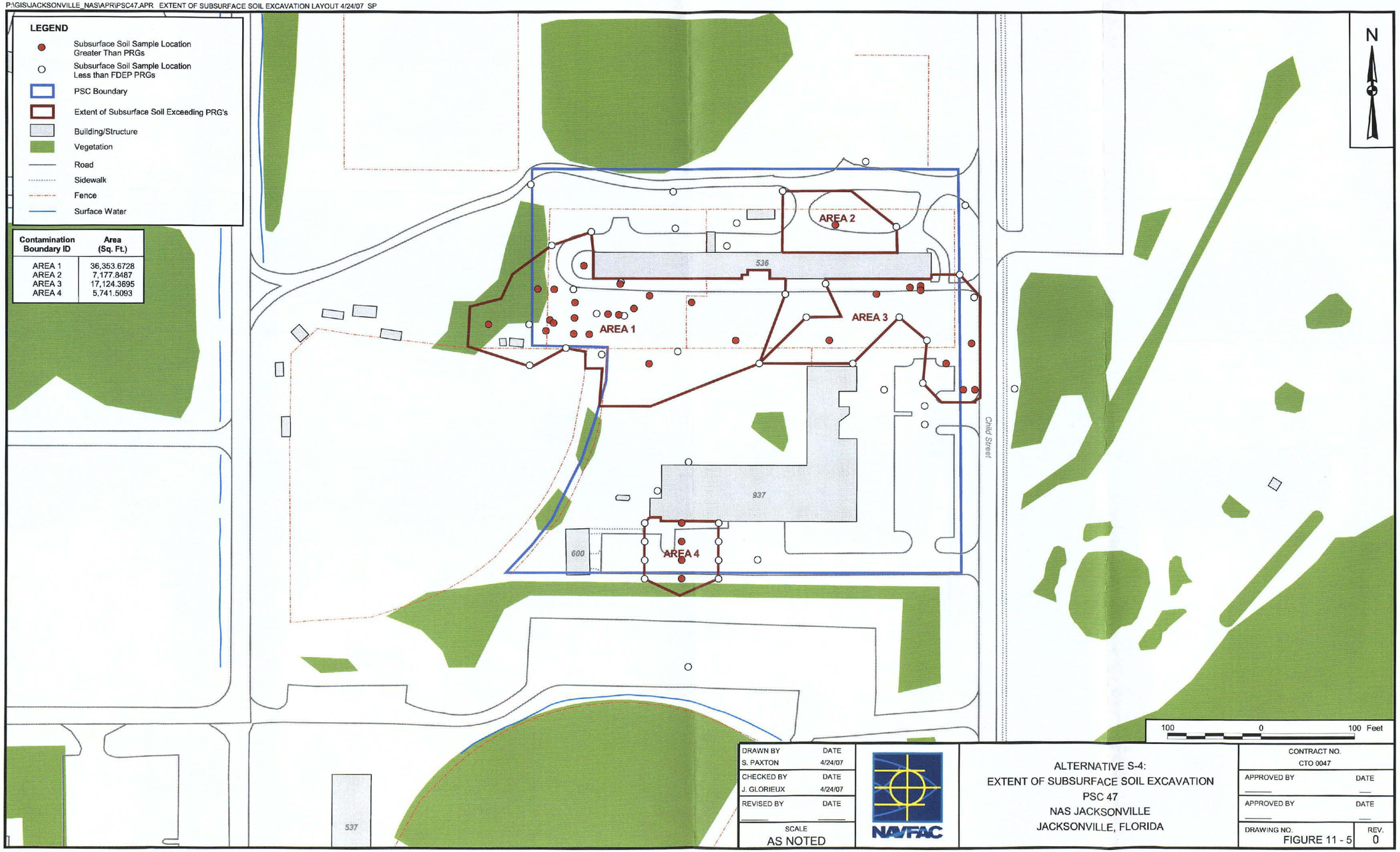
DRAWN BY	DATE
S. PAXTON	4/24/07
CHECKED BY	DATE
J. GLORIEUX	4/24/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

ALTERNATIVE S-4:
EXTENT OF SURFACE SOIL EXCAVATION
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 11 - 4
REV.	0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR EXTENT OF SUBSURFACE SOIL EXCAVATION LAYOUT 4/24/07 SP



DRAWN BY S. PAXTON	DATE 4/24/07
CHECKED BY J. GLORIEUX	DATE 4/24/07
REVISED BY	DATE
SCALE AS NOTED	

NAVFAC

ALTERNATIVE S-4:
EXTENT OF SUBSURFACE SOIL EXCAVATION
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. CTO 0047	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 11 - 5	REV. 0

11.2.4.2 Detailed Analysis

Overall Protection of Human Health and the Environment

Alternative S-4 would be fully protective of human health and the environment under the current industrial exposure scenario and any other foreseeable site use. Excavation and off-site disposal of soil with concentrations of COCs greater than their PRGs would eliminate unacceptable risks from direct exposure to contaminated soil or from migration of soil COCs either offsite or to other media. Alternative S-4 would meet the soil RAOs.

Compliance with ARARs and TBCs

Alternative S-4 would comply with all chemical-, location-, and action-specific ARARs and TBCs.

Long-term Effectiveness and Permanence

Alternative S-4 would be long-term effective and permanent. Excavation and off-site disposal would effectively and permanently remove soil with concentrations of COCs to which current or potential future site users should not be exposed. Excavation and off-site disposal would also remove soil with concentrations of COCs high enough to leach to groundwater.

Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative S-4 would reduce the toxicity, mobility, and volume of the soil COCs, but not through treatment. Approximately 14,250 yd^3 of contaminated soil would be permanently and irreversibly removed from PSC 47 and disposed in an off-site solid waste or hazardous waste landfill.

Short-term Effectiveness

Implementation of Alternative S-4 could result in significant short-term risks to on-site workers as a result of exposure to contamination during soil excavation. However, these risks would be adequately mitigated by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health and safety procedures. Alternative S-4 could also adversely impact the surrounding community and the environment as a result of the excavation and off-site transportation of contaminated soil. This adverse impact would also be adequately mitigated by the implementation of ECs such as dust suppression and air quality monitoring, by adherence to spill prevention procedures, and by compliance with DOT regulations.

Alternative S-4 could be completed within approximately six months and would achieve the soil RAOs and meet the soil PRGs at completion.

Implementability

Alternative S-4 would be easy to implement and resources, equipment, and materials would be readily available for this purpose. The excavation component of this alternative could be performed with normal construction equipment by a wide range of contractors. Because excavation would be limited to approximately 5 ft bls and would not extend below the water table, the need for shoring would be limited to the temporary support of exposed existing buildings foundations as may be required and there be no need for dewatering. RCRA solid waste and hazardous waste landfills are readily available for the off-site disposal of the excavated soil.

The administrative aspects of Alternative S-4 would be simple to implement. A construction permit would have to be obtained and the off-site transportation and disposal of the excavated soil would have to be properly documented, which could readily be accomplished.

Cost

The estimated costs for Alternative S-4 are:

Capital Cost:	$3,513,715
NPW of O&M Cost:	$0
NPW:	$3,513,715

A detailed cost estimate for this alternative is provided in Appendix M.

11.3 DEVELOPMENT OF GROUNDWATER REMEDIAL ALTERNATIVES

The following alternatives have been developed for groundwater remediation at PSC 47:

Alternative GW-1:	No Action
Alternative GW-2:	Monitored Natural Attenuation and LUCs
Alternative GW-3A:	Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored Natural Attenuation and LUCs
Alternative GW-3B:	Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored Natural Attenuation and LUCs

Alternative GW-1 was developed and analyzed to serve as a baseline for other alternatives, as required by the by CERCLA and the NCP. Alternative GW-2 was developed and analyzed to evaluate the adequacy of minimal action according to Chapter 62-780, FAC, RBCA RMO Level III. Alternatives GW-3A and GW-3B were developed and analyzed to evaluate active remediation with relatively innovative in-situ treatment approaches for the Northern and Southern Plumes, respectively.

A description and detailed analysis of these alternatives are provided in the following sections.

11.3.1 Alternative GW-1 - No Action

11.3.1.1 Description

This alternative is a "walk-away" alternative that is required under CERCLA to establish a basis for comparison with other alternatives. Under this alternative the property would be released for unrestricted use. This alternative cannot be chosen if waste remains on site.

11.3.1.2 Detailed Analysis

Overall Protection of Human Health and the Environment

Alternative GW-1 would not be protective of human health and the environment. Although there are no unacceptable human health risks from exposure to contaminated groundwater under the current industrial site use, Alternative GW-1 would not prevent unacceptable human health risks that would result from a hypothetical future residential site use. In addition, in the absence of monitoring, the progress of natural attenuation would remain unknown and potential future migration of groundwater COCs to surface water would remain undetected, which could adversely impact ecological receptors.

Compliance with ARARs and TBCs

Alternative GW-1 would not comply with chemical-specific ARARs or TBCs because no action would be taken to reduce contaminant concentrations. Chemical-specific ARARs and TBCs might eventually be met through natural attenuation, but this would not be verified through monitoring. Compliance with location-specific ARARs or TBCs would be purely incidental. Action-specific ARARs or TBCs are not applicable.

Long-term Effectiveness and Permanence

Alternative GW-1 would not be long-term effective and permanent because it would not involve any action and it would leave PSC 47 open to unrestricted use, which would result in unacceptable human health

risks. In addition, because there would be no monitoring, the progress of natural attenuation would remain unknown and potential migration of groundwater COCs to surface water would not be detected.

Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative GW-1 would not reduce toxicity, mobility, or volume of contaminants through treatment because no treatment would occur. Some reduction of contaminant toxicity or volume might occur through natural attenuation. but no monitoring would verify this.

Short-term Effectiveness

Because no action would occur, implementation of Alternative GW-1 would not pose any short-term risks to on-site workers or result in adverse impact to the local community and the environment.

Alternative GW-1 would not meet the groundwater RAOs and, although the groundwater PRGs might eventually be achieved through natural attenuation, this would not be verified through monitoring.

Implementability

Alternative GW-1 would be very easy to implement because there would be nothing to implement. The technical feasibility criteria, including constructability, operability, and reliability, are not applicable. The implementability of administrative measures is not applicable because no such measures would be taken.

Cost

There would be no costs associated with the No Action alternative.

11.3.2 Alternative GW-2: Monitored Natural Attenuation and LUCs

11.3.2.1 Description

Alternative GW-2 would consist of three major components: (1) natural attenuation, (2) monitoring, and (3) LUCs.

Component 1: Natural Attenuation

Natural attenuation relies on naturally occurring processes within the aquifer to reduce the concentrations of VOCs, SVOCs, pesticides, and arsenic. Biodegradation, dispersion, and dilution through aquifer movement, and adsorption on soil particles are expected to be the processes primarily responsible for this natural attenuation. Initial data suggest that natural attenuation of COCs is occurring at the site,

however additional data collection would be necessary to fully evaluate natural attenuation effectiveness. Under this scenario, aquifer conditions and quality would be continually monitored to track the progress of remediation through natural attenuation.

Component 2: Monitoring

Monitoring would consist of regularly collecting and analyzing groundwater samples both from within the Northern and Southern Plumes to assess natural attenuation and downgradient of the leading edge of the plumes to detect potential migration of groundwater COCs to surface water. The specific scope for monitoring would be detailed in a monitored natural attenuation work plan to be developed after approval of the remedy.

For costing purposes, it is assumed that monitoring for natural attenuation would be performed over a period of up to 30 years and would consist of collecting samples from 15 existing monitoring wells and analyzing them for groundwater COCs (VOCs, SVOCs, pesticides and arsenic). During the initial period of monitoring, samples would also be analyzed for natural attenuation indicator parameters, such as ORP, dissolved oxygen, pH, alkalinity, temperature, conductivity, BOD, COD, TOC, ferrous and total iron, sulfur compounds (sulfates, sulfides), nitrogen compounds (nitrates, nitrites), orthophosphates, chlorides, and metabolic gases (methane, ethane, ethene, and carbon dioxide). Sampling frequency would be quarterly for the first year, semi-annually for the next two years, and annually thereafter.

Monitoring for potential migration of COCs would be performed over a period of up to 30 years and would consist of collecting samples from six existing monitoring wells and analyzing them for groundwater COCs. Sampling frequency would be quarterly for the first year, semi-annually for the next two years, and annually thereafter.

Reviews would be performed every five years to evaluate site status, assess the continued adequacy of remedial activities, and determine whether further action is necessary. These site reviews are required because this alternative allows COCs to remain in groundwater at concentrations in excess of PRGs.

Component 3: LUCs

A LUC RD would be prepared to establish and implement methods and procedures to prohibit the use of the surficial aquifer groundwater at PSC 47 for human consumption, dewatering, irrigation, and heating/cooling or industrial purposes without the consent of the Navy and FDEP. In addition, regular site inspections would be performed to verify the continued implementation of the LUCs. The LUC RD and LUCs would be developed in accordance with the Navy's LUC Principles (DoD, 2003).

11.3.2.2 Detailed Analysis

Overall Protection of Human Health and the Environment

Alternative GW-2 would be protective of human health and the environment. Natural attenuation would be protective of human health and the environment because it would reduce concentrations of COCs until the PRGs are eventually achieved. LUCs would be protective because they would prevent unacceptable human health risks from exposure to contaminated groundwater until the groundwater PRGs have been met. Monitoring would be protective because it would assess the progress of natural attenuation and also because it would detect the potential migration of groundwater COCs to surface water, which would allow the prevention of unacceptable human health and ecological risks. Alternative GW-2 would meet the groundwater RAOs.

Compliance with ARARs and TBCs

Alternative GW-2 would not comply in the short-term with chemical-specific ARARs and TBCs, but compliance would eventually be achieved through natural attenuation. Alternative GW-2 would comply with location-, and action-specific ARARs and TBCs.

Long-term Effectiveness and Permanence

Alternative GW-2 would be long-term effective and permanent. Natural attenuation would effectively reduce concentrations of groundwater COCs and eventually achieve the groundwater PRGs as verified through monitoring. Until this occurs, LUCs would effectively prevent groundwater access and use, which would result in unacceptable human health risk, Monitoring would effectively determine whether or not groundwater COCs are migrating to surface water, which might result in unacceptable ecological risks.

Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative GW-2 would reduce the toxicity, mobility, and volume of groundwater COCs, but not through treatment. The toxicity and volume of groundwater COCs would be reduced through natural attenuation and this reduction would be quantified by monitoring.

Short-term Effectiveness

Implementation of Alternative GW-2 could result in minimal short-term risks to on-site workers as a result of exposure to contamination during monitoring. However, these risks would be adequately mitigated by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health

and safety procedures. Alternative GW-2 would also not adversely impact the surrounding community or the environment.

Alternative GW-2 could be implemented within approximately three months and would achieve the groundwater RAOs at completion. The groundwater PRGs would eventually be met through natural attenuation and this would be determined through monitoring.

Implementability

Alternative GW-2 would be easy to implement. A number of groundwater monitoring events have been implemented at PSC 47 and additional monitoring would be easy to perform.

The administrative aspects of Alternative GW-2 would be simple to implement. A LUC RD would be easy to prepare and LUCs could be readily implemented and enforced. No construction permits would be required for this alternative.

Cost

The estimated costs for Alternative GW-2 are:

Capital Cost:	$16,000
30-Year NPW of O&M Cost:	$754,000
30-Year NPW:	$770,000

A detailed cost estimate for this alternative is provided in Appendix M.

11.3.3 Alternative GW-3A: Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored Natural Attenuation, and LUCs

11.3.3.1 Description

Alternative GW-3A would consist of four major components: (1) In-situ enhanced bioremediation of Northern Plume, (2) natural attenuation, (3) monitoring, and (4) LUCs.

Component 1: In-Situ Enhanced Bioremediation of Northern Plume

In-situ bioremediation would consist of using electron donor injection to enhance the growth of indigenous microorganisms and augment the natural biodegradation of the Northern Plume COCs, particularly the pesticides. As previously discussed in Section 10.5.4.1, the results of bench-scale treatability tests

(TtNUS, 2007) have tentatively identified emulsified food-grade vegetable oil as a suitable electron donor. For the purposes of this FS, it is assumed that this emulsified oil would be injected in the contaminated groundwater using DPT wells and that a single injection sequence would be required. Based upon experience with similar applications, it is assumed that 230 DPT wells would be installed to a depth of 25 ft bls as illustrated on Figure 11-6. Emulsified oil would be injected in these wells at the rate of approximately 10 pounds of concentrate per foot of depth in the 5 to 25 ft bls interval, for a total emulsified oil concentrate use of approximately 46,000 pounds (6,200 gallons). The oil concentrate is typically diluted with water in the ratio of 10 to 1 prior to injection and a certain volume of water is added into the wells following injection to promote dispersion. Because the contaminant-degrading microorganisms function optimally in a pH range of 6.0 to 8.0 SU, pH adjustment would probably be required with controlled injection of an alkaline reagent such as sodium hydroxide (caustic soda) at the same time as that of the emulsified oil. The exact design of the treatment system would be verified through pilot-scale treatability testing prior to implementation. Conceptual design calculations for the in-situ bioremediation system are provided in Appendix M.

Component 2: Natural Attenuation

This component would be identical to Component 1 of Alternative GW-2.

Component 3: Monitoring

This component would be identical to Component 2 of Alternative GW-2, except that the samples collected from the six wells in the Northern Plume would be analyzed for natural attenuation parameters after completion of the in-situ enhanced bioremediation that is from Year 4 to Year 8 instead of from Year 1 to Year 5.

Component 4: LUCs

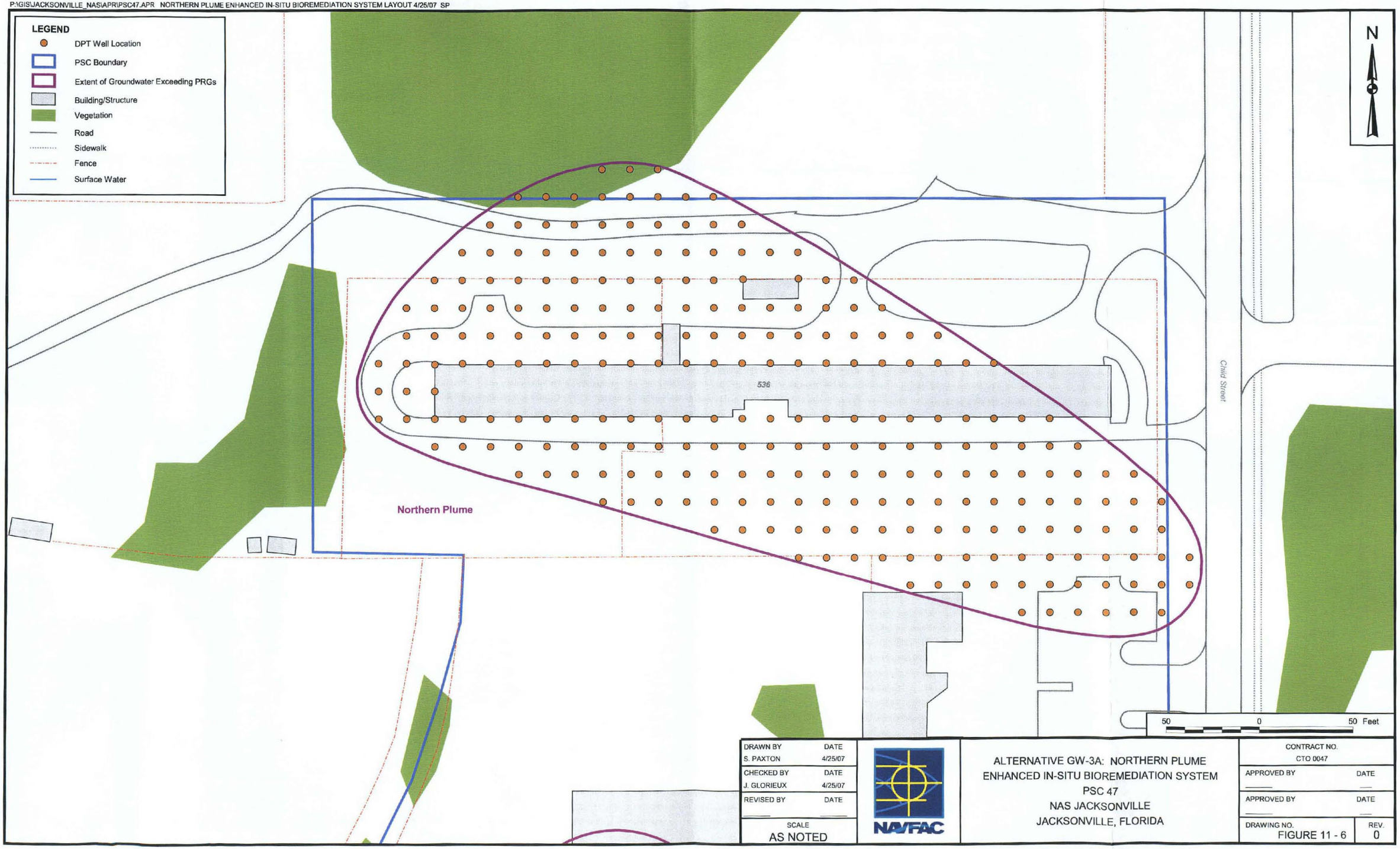
This component would be identical to Component 3 of Alternative GW-2.

11.3.3.2 Detailed Analysis

Overall Protection of Human Health and the Environment

Alternative GW-3A would be protective of human health and the environment. In-situ enhanced bioremediation of the Northern Plume would be protective of human health and the environment because it would significantly accelerate the natural attenuation of this area of contaminated groundwater. LUCs would be protective because they would prevent unacceptable human health risks from exposure to contaminated groundwater until the groundwater PRGs have been met. Monitoring would be protective

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR NORTHERN PLUME ENHANCED IN-SITU BIOREMEDIATION SYSTEM LAYOUT 4/25/07 SP



DRAWN BY S. PAXTON	DATE 4/25/07
CHECKED BY J. GLORIEUX	DATE 4/25/07
REVISED BY	DATE
SCALE AS NOTED	

NAVFAC

ALTERNATIVE GW-3A: NORTHERN PLUME
ENHANCED IN-SITU BIOREMEDIATION SYSTEM
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. CTO 0047	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 11 - 6	REV. 0

because it would assess the progress of in-situ bioremediation and natural attenuation and also because it would detect the potential migration of groundwater COCs to surface water, which would allow the prevention of unacceptable human health and ecological risks. Alternative GW-3A would meet the groundwater RAOs.

Compliance with ARARs and TBCs

Alternative GW-3A would eventually comply with chemical-specific ARARs and TBCs through the combination of active in-situ biological treatment and natural attenuation. Alternative GW-3A would also comply with location- and action-specific ARARs and TBCs.

Long-term Effectiveness and Permanence

Alternative GW-3A would be long-term effective and permanent. In-situ enhanced bioremediation of the Northern Plume would effectively and permanently reduce concentrations of COCs within that area of contaminated groundwater. However the site-specific effectiveness of the proposed electron donor injection technology would have to be verified through pilot-scale testing, particularly for the removal of pesticides. Natural attenuation would effectively reduce concentrations of groundwater COCs and eventually achieve the groundwater PRGs as verified through monitoring. Until this occurs, LUCs would effectively prevent groundwater access and use, which would result in unacceptable human health risk, Monitoring would effectively determine whether or not groundwater COCs are migrating to surface water, which might result in unacceptable ecological risks.

Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative GW-3A would reduce the toxicity, mobility, and volume of the Northern Plume COCs through treatment. An estimated 2.7 pounds of VOCs, SVOCs, and pesticides would be permanently and irreversibly removed through in-situ enhanced bioremediation. Additional reduction in the toxicity, mobility, and volume of groundwater COCs would be achieved through natural attenuation and this reduction would be quantified by monitoring. Alternative GW-3A would not generate any treatment residue.

Short-term Effectiveness

Implementation of Alternative GW-3A could result in moderate short-term risks to on-site workers as a result of exposure to contamination during the installation and operation of an in-situ chemical injection system and as a result of monitoring. However, these risks would be adequately mitigated by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health and safety

procedures. Alternative GW-3A would also not adversely impact the surrounding community or the environment.

Alternative GW-3A could be implemented within approximately one year and would achieve the groundwater RAOs at completion. Alternative GW-3A would also meet the groundwater PRGs for the Northern Plume within an estimated three years. The remaining groundwater PRGs would eventually be met through natural attenuation and this would be determined through monitoring.

Implementability

Alternative GW-3A would be relatively easy to implement. In-situ enhanced bioremediation services are available from a number of qualified contractors. Installation of a large number (230) of DPT wells for electron donor injection would likely interfere, at least temporarily, with the normal use of the site, especially the installation of those DPT wells that would be located on existing parking lots and next to Building 536. Pilot-scale treatability testing would have to be performed to verify the site-specific effectiveness and the design parameters for the electron donor injection technology for the in-situ bioremediation of pesticides. A number of groundwater monitoring events have been implemented at PSC 47 and additional monitoring would be easy to perform.

The administrative aspects of Alternative GW-3A would be simple to implement. A LUC RD would be easy to prepare and LUCs could be readily implemented and enforced. No construction permits would be required for this alternative.

Cost

The estimated costs for Alternative GW-3A are:

Capital Cost:	$1,219,000
30-Year NPW of O&M Cost:	$813,000
30-Year NPW:	$2,032,000

Detailed cost estimates for this alternative are provided in Appendix M.

11.3.4 Alternative GW-3B: Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored Natural Attenuation, and LUCs

Alternative GW-3B would consist of four major components: (1) chemical oxidation and precipitation of the Southern Plume, (2) natural attenuation, (3) monitoring, and (4) LUCs.

11.3.4.1 Detailed Description

Component 1: Chemical Oxidation and Precipitation of the Southern Plume

This component would consist of installing a DPT injection system for the in-situ chemical oxidation and precipitation of the Southern Plume Arsenic Hot Spot. Treatment would include two rounds of injection in rapid succession, with the first round providing the iron necessary for the arsenic co-precipitation process and the second round providing an oxygen rich environment to oxidize arsenic from the trivalent to the pentavalent state, resulting in the co-precipitation of an arsenic ferro-oxide.

For the purpose of this FS, the conceptual design of this component was based on general experience with DPT injection systems for the remediation of plumes similar to the PSC 47 Southern Plume Arsenic Hot Spot. Conceptual design calculations are provided in Appendix M. The exact design of the in-situ chemical oxidation and precipitation system would be verified through treatability testing prior to implementation.

The DPT injection system would consist of a grid of 55 DPT injection wells installed to a depth of 25 ft bls. The proposed arrangement of the DPT injection system is illustrated on Figure 11-7. For the first round of injection, the DPT injection system would be used to feed a total of approximately 5,850 pounds of a 40-percent (by weight) solution of ferric chloride (approximately 500 gallons), which corresponds to a total iron III addition of approximately 800 pounds, which corresponds to twice the stochiometric demand for arsenic co-precipitation. To promote dispersion, the ferric chloride solution would be diluted 100 to 1 providing approximately 920 gallons of dilute solution to be injected at each DPT point. For the second round of injection, 200 pounds of an oxygen enhancer such as ORC or similar compound would be injected in each of the DPT well for a total injection of 11,000 pounds of an oxygen enhancer into the Arsenic Hot Spot.

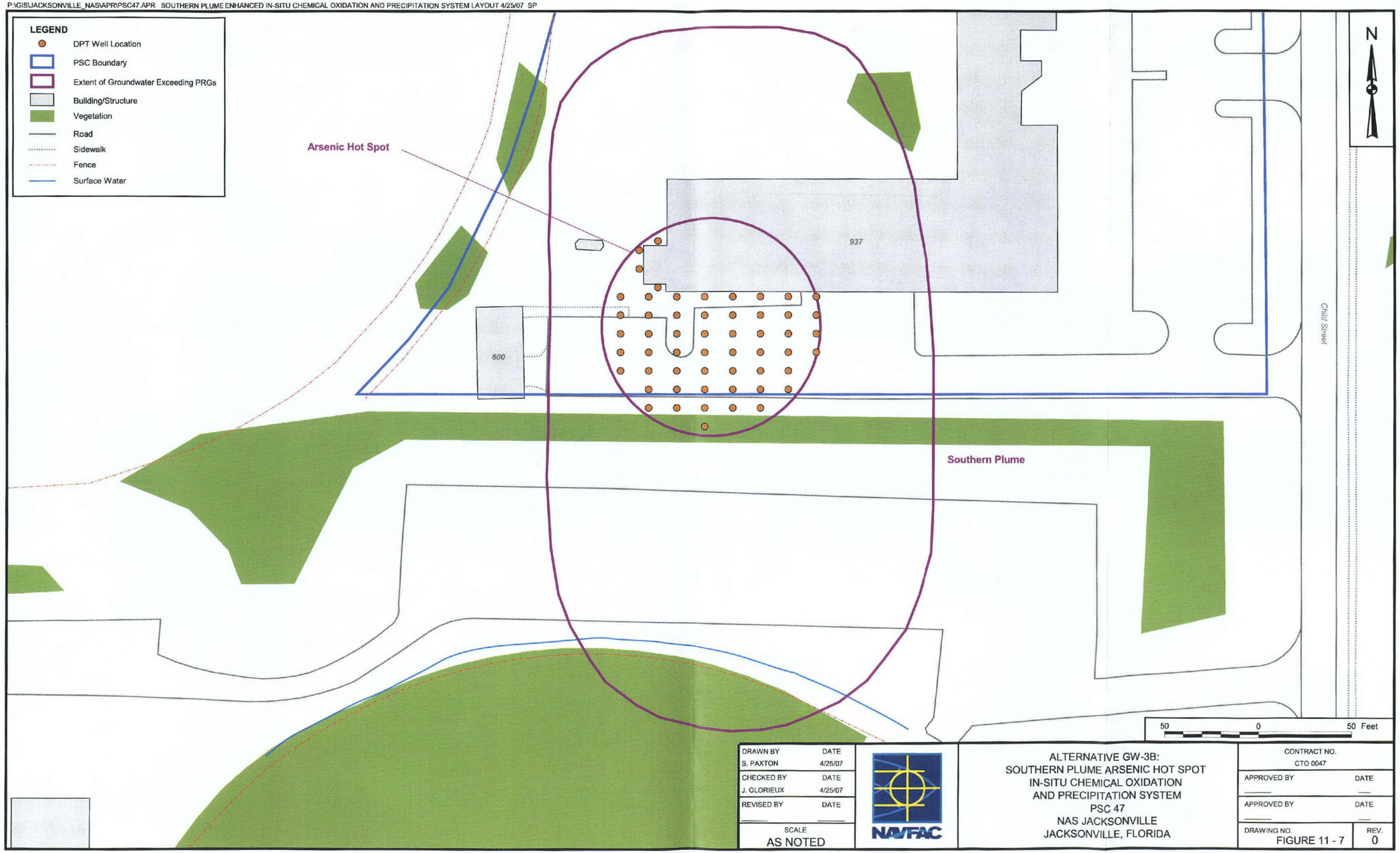
Component 2: Natural Attenuation

This component would be identical to Component 1 of Alternative GW-2.

Component 3: Monitoring

This component would be identical to Component 2 of Alternative GW-2, except that the samples collected from the nine wells in the Southern Plume would be analyzed for natural attenuation parameters after completion of the in-situ chemical oxidation and precipitation, which is from Year 2 to Year 6 instead of from Year 1 to Year 5.

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR SOUTHERN PLUME ENHANCED IN-SITU CHEMICAL OXIDATION AND PRECIPITATION SYSTEM LAYOUT 4/25/07 SP



DRAWN BY	DATE
S. PAXTON	4/25/07
CHECKED BY	DATE
J. GLORIEUX	4/25/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

ALTERNATIVE GW-3B:
SOUTHERN PLUME ARSENIC HOT SPOT
IN-SITU CHEMICAL OXIDATION
AND PRECIPITATION SYSTEM
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 11 - 7
REV.	0

Component 4: LUCs

This component would be identical to Component 3 of Alternative GW-2.

11.3.4.2 Detailed Analysis

Overall Protection of Human Health and the Environment

Alternative GW-3B would be protective of human health and the environment. In-situ chemical oxidation and precipitation of the Southern Plume would be protective of human health and the environment because it would significantly accelerate the natural attenuation of this area of contaminated groundwater. LUCs would be protective because they would prevent unacceptable human health risks from exposure to contaminated groundwater until the groundwater PRGs have been met. Monitoring would be protective because it would assess the progress of in-situ bioremediation and natural attenuation and also because it would detect the potential migration of groundwater COCs to surface water, which would allow the prevention of unacceptable human health and ecological risks. Alternative GW-3B would meet the groundwater RAOs.

Compliance with ARARs and TBCs

Alternative GW-3B would eventually comply with chemical-specific ARARs and TBCs through the combination of active in-situ chemical treatment and natural attenuation. Alternative GW-3B would also comply with location- and action-specific ARARs and TBCs.

Long-term Effectiveness and Permanence

Alternative GW-3B would be long-term effective and permanent. In-situ chemical oxidation and precipitation of the Southern Plume would effectively and permanently reduce concentrations of arsenic within that area of contaminated groundwater. However, the site-specific effectiveness of the proposed ferric iron and oxygen enhancer would have to be verified through bench- and pilot-scale testing. In addition, there would also be a slight possibility that the arsenic that had been removed from groundwater and immobilized in the surrounding soil could be redissolved and remobilized over the long term as a result of naturally occurring changes in groundwater chemistry. Natural attenuation would effectively reduce concentrations of groundwater COCs and eventually achieve the groundwater PRGs as verified through monitoring. Until this occurs, LUCs would effectively prevent groundwater access and use, which would result in unacceptable human health risk, Monitoring would effectively determine whether or not groundwater COCs are migrating to surface water, which might result in unacceptable ecological risks.

Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative GW-3B would reduce the toxicity and mobility of the arsenic in the Southern Plume through treatment. An estimated 27 pounds of arsenic would be removed from groundwater and immobilized in the surrounding soil matrix through in-situ chemical oxidation and precipitation. However, as previously remarked, this removal and immobilization might not be fully permanent and irreversible. Reduction in the toxicity, mobility, and volume of other groundwater COCs would be achieved through natural attenuation and this reduction would be quantified by monitoring. Alternative GW-3B would not generate any treatment residue.

Short-term Effectiveness

Implementation of Alternative GW-3B could result in moderate short-term risks to on-site workers as a result of exposure to contamination during the installation and operation of an in-situ chemical injection system and as a result of monitoring. However, these risks would be adequately mitigated by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health and safety procedures. Alternative GW-3B would also not adversely impact the surrounding community or the environment.

Alternative GW-3B could be implemented within approximately one year and would achieve the groundwater RAOs at completion. Alternative GW-3B would also meet the arsenic PRG for the Southern Plume Arsenic Hot Spot within an estimated one year. The remaining groundwater PRGs would eventually be met through natural attenuation and this would be determined through monitoring.

Implementability

Alternative GW-3B could be implemented. In-situ chemical oxidation and precipitation is a relatively innovative and this kind of service would only be available from a limited number of qualified contractors. Installation of a relatively large number (90) of DPT wells for chemical injection might interfere, at least temporarily, with the normal use of the site, especially because most of those DPT wells would be located next to Building 937. Pilot-scale treatability testing would have to be performed to verify the site-specific effectiveness and the design parameters for the electron donor injection technology for the in-situ bioremediation of pesticides. A number of groundwater monitoring events have been implemented at PSC 47 and additional monitoring would be easy to perform.

The administrative aspects of Alternative GW-3B would be simple to implement. A LUC RD would be easy to prepare and LUCs could be readily implemented and enforced. No construction permits would be required for this alternative.

Cost

The estimated costs for Alternative GW-3B are:

Capital Cost:	$691,000
30-Year NPW of O&M Cost:	$790,000
30-Year NPW:	$1,481,000

Detailed cost estimates for this alternative are provided in Appendix M.

12.0 COMPARATIVE ANALYSIS OF REMEDIAL ALTERNATIVES

This section compares the analyses that were presented for each of the remedial in Section 11.0. The criteria for comparison are identical to those used for the detailed analysis of individual alternatives.

12.1 COMPARISON OF SOIL REMEDIAL ALTERNATIVES BY CRITERIA

The following remedial alternatives for soil are being compared in this section:

Alternative S-1: No Action
Alternative S-2: Capping to Allow Industrial Use and Prevent Leaching, LUCs, and Monitoring
Alternative S-3: Excavation and Off-Site Disposal to Allow Industrial Use, Capping to Prevent Leaching, LUCs, and Monitoring
Alternative S-4: Excavation and Off-Site Disposal to Allow Residential Exposure and Prevent Leaching

12.1.1 Overall Protection of Health and Environment

Alternative S-1 would not be protective of human health and the environment because it would allow unacceptable human health risks from exposure to contaminated soil to continue under the current industrial site use as well as the potential for even greater human health risks under a hypothetical future residential site use. In addition, Alternative S-1 would not be protective because it would not prevent the ongoing migration of soil COCs to groundwater. Alternative S-1 would not meet the soil RAOs.

Alternatives S-2, S-3, and S-4 would be protective of human health and the environment and would meet the soil RAOs.

Alternatives S-2 and S-3 would be protective because they would actively prevent unacceptable human health risks from exposure to contaminated soil under the current industrial scenario as well as minimize the migration of soil COCs to groundwater. Alternative S-2 and S-3 would also be protective through the use of LUCs that would prevent hypothetical future residential use of PSC 47. Alternative S-3 would be slightly more protective than Alternative S-2 because it would mostly rely on excavation and off-site disposal to achieve protection, instead of using capping as Alternative S-2.

Alternative S-4 would be most protective of human health and the environment because it would use excavation and off-site disposal to prevent unacceptable human health risks from exposure to

contaminated soil under both current and hypothetical future site uses. Alternative S-4 would also actively prevent the migration of soil COCs to groundwater.

12.1.2 Compliance with ARARs and TBCs

Alternative S-1 would not comply with chemical- and location-specific ARARs and TBCs. Chemical-specific ARARs and TBCs might eventually be met through natural attenuation, but this would not be verified. No action-specific ARARs or TBCs apply to this alternative.

Alternatives S-2 and S-3 would not comply with chemical-specific ARARs and TBCs in the short-term. Chemical-specific ARARs and TBCs might eventually be met through natural attenuation, and this would be verified by monitoring. Alternatives S-2 and S-3 would comply with location- and action-specific ARARs and TBCs.

Alternative S-4 would comply with chemical-, location-, and action-specific ARARs and TBCs.

12.1.3 Long-term Effectiveness and Permanence

Alternative S-1 would not be long-term effective and permanent because it would involve no action.

Alternatives S-2, S-3, and S-4 would be long-term effective and permanent.

The capping, LUCs, and monitoring of Alternatives S-2 would constitute effective means of preventing unacceptable human health risk of exposure under the current industrial scenario, of preventing future hypothetical residential site use, and of minimizing migration of soil COCs to groundwater and detecting it if it occurs. Alternative S-3 would be slightly more effective and permanent than Alternative S-2 because it would replace most of the capping with excavation and off-site disposal, which is the most effective and permanent mean of removing contaminated soil from the site. Both S-2 and S-3 would also reduce the mobility of COCs from soils to groundwater thereby increasing the effectiveness of groundwater alternatives.

Alternative S-4 would be most effective and permanent because it would permanently remove from the site any soil that could constitute an unacceptable human health risk under either current or hypothetical future site uses or that could contribute to the leaching of soil COCs to groundwater.

12.1.4 Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative S-1 would not reduce toxicity, mobility, or volume of the soil COCs through treatment because no treatment would occur. The toxicity and volume of the soil COCs might eventually be reduced through natural attenuation, but this would not be verified through monitoring.

Alternative S-2 would reduce the toxicity, mobility, and volume of the soil COCs, but not through treatment. The mobility of soil COCs would be reduced through capping and, as a result of cap construction, approximately 5,150 yd^3 of the most highly contaminated soil would be permanently and irreversibly removed from PSC 47 and disposed in an off-site RCRA Subtitle D solid waste landfill. In addition, the toxicity and volume of the remaining soil COCs might eventually be reduced through natural attenuation as verified through monitoring.

Alternative S-3 would reduce toxicity, mobility, and volume of the soil COCs, but not through treatment. Approximately 8,650 yd^3 of the most highly contaminated soil would be permanently and irreversibly removed from PSC 47 and disposed in an off-site RCRA Subtitle D solid waste landfill. In addition, the mobility of the soil COCs most likely to leach to groundwater would be reduced through capping. The toxicity and volume of the residual soil COCs might also be eventually reduced through natural attenuation.

Alternative S-4 would reduce toxicity, mobility, and volume of the soil COCs, but not through treatment. Approximately 14,250 yd^3 of contaminated soil would be permanently and irreversibly removed from PSC 47 and disposed in an off-site RCRA Subtitle D solid waste landfill.

12.1.5 Short-term Effectiveness

Because no action would occur, implementation of Alternative S-1 would not result in any short-term risks to on-site workers or adversely impact the local community and the environment.

Implementation of Alternatives S-2, S-3, and S-4 could result in short-term risks to on-site workers as a result of exposure to contamination. The potential for exposure would be moderate with Alternatives S-2 and S-3 and significant with Alternative S-4 because of the higher level of activities. However, these risks would be adequately mitigated for all alternatives by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health and safety procedures.

Alternatives S-2, S-3, and S-4 could also have an adverse impact on the surrounding community and the environment as a result of on-site activities and off-site transportation of contaminated soil. The potential for adverse impact would be minimal for Alternatives S-2 and S-3 and greater for Alternative S-4 because of the greater level of activities and the larger volume of contaminated soil. However, this impact would

also be adequately mitigated for all alternatives by the implementation of engineering controls such as dust suppression and air quality monitoring, by adherence to spill prevention procedures, and by compliance with DOT regulations.

Alternative S-1 would not achieve the soil RAOs or meet the soil PRGs. Alternatives S-2 and S-3 could be completed in approximately five months and would achieve the soil RAOs at completion. In addition, Alternatives S-3 and S-2 might eventually meet the soil PRGs as a result of natural attenuation and this would be determined through monitoring. Alternative S-4 could be completed in approximately six months and would achieve the soil RAOs and meet the PRGs at completion.

12.1.6 Implementability

Alternative S-1 would be very easy to implement because there would be nothing to implement. The implementability of administrative measures is not applicable because no such measures would be taken.

Alternatives S-2, S-3, and S-4 would be easy to implement and resources, equipment, and materials would be readily available for this purpose. The technical complexity of all three alternatives would be similar because while Alternative S-4 would involve a significantly higher level of short-term activities, it would not include the long-term monitoring component of Alternatives S-2 and S-3.

The administrative aspects of Alternatives S-2, S-3, and S-4 would be simple to implement. The administrative implementability of Alternatives S-2 and S-3 would be slightly more complex than that of Alternative S-4 because in addition to the securing of a construction permit and the documentation of the off-site disposal of excavated soil, these two alternatives would require the preparation of a LUC RD and the long-term enforcement of LUCs.

12.1.7 Cost

The capital and O&M costs and NPW of the soil alternatives are as follows. Costs have been rounded to the nearest $1,000 to reflect the preliminary nature of the estimates. Detailed cost estimates are provided in Appendix M.

Alternative	Capital ($)	NPW of O&M ($)	NPW ($)
S-1	0	0	0
S-2	2,522,000	393,000 (30 Years)	2,915,000 (30 Years)
S-3	5,620,000	274,000 (30 Years)	5,894,000 (30 Years)
S-4	6,536,000	0 (1 Year)	6,536,000 (1 Year)

12.2 PREFERRED SOIL REMEDIAL ALTERNATIVES

Table 12-1 summarizes the above comparative analysis of soil remedial alternatives. Based on this comparison, Alternative S-3 was selected as the preferred soil alternative because it would be most cost effective to provide adequate protection under current site use while providing protection via the reduction and or elimination of COC migration from soils to groundwater at the site.

12.3 COMPARISON OF GROUNDWATER REMEDIAL ALTERNATIVES BY CRITERIA

The following remedial alternatives for groundwater are being compared in this section:

Alternative GW-1: No Action

Alternative GW-2: Monitored Natural Attenuation and LUCs

Alternative GW-3A: Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored Natural Attenuation and LUCs

Alternative GW-3B: Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored Natural Attenuation and LUCs

12.3.1 Overall Protection of Human Health and the Environment

Alternative GW-1 would not be protective of human health and the environment. There would be no LUCs to prevent usage or exposure to contaminated groundwater nor would Alternative GW-1 detect the potential migration of groundwater COCs to surface water. Alternative GW-1 would not meet the groundwater RAOs.

Alternatives GW-2, GW-3A, and GW-3B would be protective of human health and the environment and would meet the groundwater RAOs. The LUCs component of these alternatives would be protective because they would prevent access to and use of the surficial aquifer groundwater. The monitoring component of these alternatives would be protective because it would evaluate the progress of remediation and detect potential migration of groundwater COCs to surface water so that appropriate contingency measures could be taken.

Table 12-1
Summary Comparative Analysis of Soil Remedial Alternatives

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Evaluation Criteria	Alternative S-1: No Action	Alternative S-2: Capping to Allow Industrial Use and Prevent Leachability, LUCs, & Monitoring	Alternative S-3: Excavation & Off-Site Disposal to Allow Industrial Use, Capping to Prevent Leachability, LUCs, & Monitoring	Alternative S-4: Excavation & Off-Site Disposal to Allow Residential Use and Prevent Leachability
Overall Protection of Human Health and Environment	Not protective	Protective	As protective as Alternative S-2	Most protective
Compliance with ARARs and TBCs				
Chemical-Specific	Would not comply	Would eventually comply	Would eventually comply	Would comply
Location-Specific	Would not comply	Would comply	Would comply	Would comply
Action-Specific	Not applicable	Would comply	Would comply	Would comply
Long-Term Effectiveness and Permanence	Not effective	Effective	As effective as Alternative S-2	Most effective
Reduction of Contaminant Toxicity, Mobility, or Volume through Treatment	None	No treatment. Mobility reduced by capping and 5,150 yd^3 contaminated soil permanently removed from site and landfilled. Toxicity and volume of remaining COCs might be reduced through natural attenuation as verified by monitoring.	No treatment. 8,650 yd^3 contaminated soil permanently removed from site and landfilled. Toxicity and volume of remaining COCs might be reduced through natural attenuation as verified by monitoring.	No treatment. 14,250 yd^3 contaminated soil permanently removed from site and landfilled.
Short-Term Effectiveness	No short-term risks. Does not attain RAOs.	Moderate potential for short-term risks. Would require approximately six months to attain RAOs.	Moderate potential for short-term risks. Would require approximately five months to attain RAOs.	Significant potential for short-term risks. Would require approximately six months to attain RAOs and PRGs.
Implementability	Nothing to implement	Easy to implement. Implementability similar to Alternatives S-3 and S-4.	Easy to implement. Implementability similar to Alternatives S-2 and S-4.	Easy to implement. Implementability similar to Alternatives S-2 and S-3.

Table 12-1
Summary Comparative Analysis of Soil Remedial Alternatives

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Evaluation Criteria	Alternative S-1: No Action	Alternative S-2: Capping to Allow Industrial Use and Prevent Leachability, LUCs, & Monitoring	Alternative S-3: Excavation & Off-Site Disposal to Allow Industrial Use, Capping to Prevent Leachability, LUCs, & Monitoring	Alternative S-4: Excavation & Off-Site Disposal to Allow Residential Use and Prevent Leachability
Costs:				
Capital	$0	$2,522,000	$5,620,000	$6,536,000
NPW of O&M	$0	$393,000	$274,000	$0
NPW	$0	$2,915,000	$5,894,000	$6,536,000

NOTES:

yd^3	Cubic Yards	O&M	Operation and maintenance
ARARs	Applicable or Relevant and Appropriate Requirements	PRGs	Preliminary Remedial Goals
COCs	Chemicals of concern	RAOs	Remedial Action Objectives
LUCs	Land use controls	TBCs	To be considered (criteria)
NPW	Net present worth		

12.3.2 Compliance with ARARs and TBCs

Alternative GW-1 would not comply with chemical- and location-specific ARARs. Action-specific ARARs or TBCs would not apply.

Alternatives GW-2, GW-3A, and GW-3B, and GW-4 would eventually comply with chemical-specific ARARs and TBCs through natural attenuation or a combination of active remediation and natural attenuation. Alternatives GW-2, GW-3A, and GW-3B would also comply with location- and action-specific ARARs and TBCs.

12.3.3 Long-Term Effectiveness and Permanence

Alternative GW-1 would not be long-term effective and permanent because it would not involve any action and it would leave PSC 47 open to unrestricted use, which would result in unacceptable human health risks. In addition, because there would be no monitoring, the progress of natural attenuation would remain unknown and potential migration of groundwater COCs to surface water would not be detected.

Alternatives GW-2, GW-3A, and GW-3B would be long-term effective and permanent. The LUCs component of these alternatives would effectively restrict access to and use of the surficial aquifer groundwater until the groundwater PRGs have been met. The monitoring component of these alternatives would provide an effective means of evaluating the progress of remediation and detecting the potential migration of groundwater COCs to surface water.

Alternative GW-3A would be slightly more effective than Alternative GW-2 because in-situ enhanced bioremediation would very likely accelerate the natural attenuation of the Northern Plume. However, since COC concentration are relatively low and in general fall below natural attenuation default criteria for the northern plume, active treatment may not be warranted. Alternative GW-3B would be approximately as effective as Alternative GW-3A because, although it might significantly accelerate the natural attenuation of the Southern Plume Arsenic Hot Spot that is a greater environmental threat than he Northern Plume, the effectiveness of in-situ chemical oxidation and precipitation is not as well demonstrated or permanent as that of in-situ enhanced bioremediation.

12.3.4 Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative GW-1 would not reduce toxicity, mobility, or volume of groundwater COCs through treatment because no treatment would occur. The toxicity and volume of the groundwater COCs would be reduced through natural attenuation, but this would not be verified through monitoring.

Alternative GW-2 would reduce the toxicity, mobility, and volume of groundwater COCs, but not through treatment. The toxicity, mobility, and volume of groundwater COCs would be reduced through natural attenuation and this reduction would be quantified by monitoring. This process would only be enhanced by the soil remedial approaches S-2, S-3, or S-4 which would serve to reduce the transfer of COCs from soils to groundwater.

Alternative GW-3A would reduce the toxicity, mobility, and volume of the Northern Plume COCs through treatment. An estimated 2.7 pounds of VOCs, SVOCs, and pesticides would be permanently and irreversibly removed through in-situ enhanced bioremediation. Additional reduction in the toxicity, mobility, and volume of groundwater COCs would be achieved through natural attenuation and this reduction would be quantified by monitoring. However, the relatively low levels of COCs in the northern plume suggest that active treatment is not necessary.

Alternative GW-3B would reduce the toxicity and volume of the arsenic in the Southern Plume Arsenic Hot Spot through treatment. An estimated 27 pounds of arsenic would be removed from the groundwater and immobilized in the surrounding soil matrix through in-situ chemical oxidation and precipitation. However, it should be noted that this removal and immobilization might not be fully permanent and irreversible. Additional reduction in the toxicity, mobility, and volume of groundwater COCs would be achieved through natural attenuation and this reduction would be quantified by monitoring

12.3.5 Short-Term Effectiveness

Because no action would occur, implementation of Alternative GW-1 would not pose any short-term risks to on-site workers or result in adverse impact to the local community and the environment.

Implementation of Alternatives GW-2, GW-3A, and GW-3B could result in short-term risks to on-site workers as a result of exposure to contamination. The potential for exposure would be minimal with Alternative GW-2 and moderate with Alternatives GW-3A and GW-3B because of the increasing level of activities. However, these risks would be adequately mitigated for all alternatives by the wearing of appropriate PPE and by compliance with OSHA regulations and with site-specific health and safety procedures.

Alternatives GW-2, GW-3A, and GW-3B would have no adverse impact on the surrounding community and the environment.

Alternative GW-1 would not achieve the groundwater RAOs or meet the groundwater PRGs. Alternatives GW-2 and GW-3A and GW-3B could be implemented within approximately three months and one year, respectively, and would achieve the groundwater RAOs at completion. GW-3A and GW-3B may meet the groundwater PRGs for the Northern Plume and southern plume within a few years, but the actual time frame necessary for treatment could be longer depending on the ability to deliver the treatments sufficiently across the impacted media. Alternatives GW-2, GW-3A, and GW-3B would eventually meet the remaining groundwater PRGs through natural attenuation and this would be determined through monitoring.

12.3.6 Implementability

Alternative GW-1 would be very easy to implement because there would be nothing to implement. The implementability of administrative measures is not applicable because no such measures would be taken.

Alternative GW-2 would be easy to implement. A number of groundwater monitoring events have been implemented at PSC 47 and additional monitoring would be easy to perform.

The technical implementability of Alternatives GW-3A and GW-3B would be more difficult than that of Alternative GW-2. In-situ treatment services are available from a number of qualified contractors. Installation of a relatively large number of DPT wells for chemical injection might interfere, at least temporarily, with the normal use of the site. Pilot-scale treatability testing would have to be performed to verify the site-specific effectiveness and the design parameters for the in-situ bioremediation and chemical oxidation and precipitation technologies.

The administrative implementability of Alternatives GW-2would be easy because these alternatives would only require the preparation of a LUC RD and the enforcement of LUCs. Implemenation of alternatives GW-3A and GW-3B would be more difficult and would take longer since treatability studies would likely be necessary to complete a remedial design.

12.3.7 Cost

The capital and O&M costs and NPW of the groundwater alternatives are as follows.

Alternative	Capital ($)	NPW of O&M ($)	NPW ($)
GW-1	0	0	0
GW-2	16,000	754,000 (30 Years)	770,000 (30 Years)
GW-3A	1,219,000	813,000 (30 Years)	2,032,000 (30 Years)
GW-3B	691,000	790,000 (30 Years)	1,481,000 (30 Years)

Detailed cost estimates are provided in Appendix M.

12.4 PREFERRED GROUNDWATER REMEDIAL ALTERNATIVES

Table 12-2 summarizes the above comparative analysis of the groundwater remedial alternatives. Based upon this analysis, Alternative GW-2 was selected as the preferred groundwater alternative. This alternative uses natural attenuation for the remediation of those COCs that are the most prevalent and the most likely to respond to this technology, i.e., the VOCs, SVOCs. In addition, the less transient COCs are not likely to migrate significant distances and may also be reduced in concentrations over time via control/removal of overlying impacted soils. Data collected to date suggests that natural attenuation is occurring at this site and maybe adequate to achieve the site RAOs. It is also anticipated that implementation of soil remedial alternatives will further reduce the potential for migration of COCs from soils to groundwater further enhancing the implementation of GW-2 ; however, additional monitoring data will be necessary to verify the protectiveness of Alternative GW-2 As a result, the preferred remedy would also include a contingency for selection of Alternative GW-3B for treatment of the southern plume should monitoring data indicate a more active treatment be necessary.

Table 12-2
Summary Comparative Analysis of Groundwater Remedial Alternatives

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Evaluation Criteria	Alternative GW-1: No Action	Alternative GW-2: Monitored Natural Attenuation & LUCs	Alternative GW-3A: Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored Natural Attenuation, & LUCs	Alternative GW-3B: Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored Natural Attenuation, & LUCs
Overall Protection of Human Health and Environment	Not protective.	Protective.	Slightly more protective than Alternative GW-2.	Slightly more protective than Alternative GW-3A.
Compliance with ARARs and TBCs				
Chemical-Specific	Would not comply	Would eventually comply	Would eventually comply	Would eventually comply
Location-Specific	Would not comply	Would comply	Would comply	Would comply
Action-Specific	Not applicable	Would comply	Would comply	Would comply
Long-Term Effectiveness and Permanence	Not effective	Effective	Slightly more effective than Alternative GW-2.	As effective as Alternative GW-3A.
Reduction of Contaminant Toxicity, Mobility, or Volume through Treatment	None	Toxicity, mobility, and volume reduced through natural attenuation.	2.8 pounds of VOCs, SVOCs, and pesticides removed through in-situ enhanced bioremediation. Additional toxicity, mobility, and volume reduced through natural attenuation.	27 pounds of arsenic removed through in-situ chemical oxidation and precipitation. Additional toxicity, mobility, and volume reduced through natural attenuation.
Short-Term Effectiveness	No short-term risks	Minimum potential for short-term risks. 3 months to attain RAOs.	Moderate potential for short-term risks. One year to attain RAOs.	Moderate potential for short-term risks. One year to attain RAOs.
Implementability	Nothing to implement	Implementable and easiest to implement.	Somewhat more difficult to implement than Alternative GW-2	As difficult to implement as Alternative GW-3A.

Table 12-2
Summary Comparative Analysis of Groundwater Remedial Alternatives

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Evaluation Criteria	Alternative GW-1: No Action	Alternative GW-2: Monitored Natural Attenuation & LUCs	Alternative GW-3A: Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored Natural Attenuation, & LUCs	Alternative GW-3B: Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored Natural Attenuation, & LUCs
Costs:				
Capital	$0	$16,000	$1,219,000	$691,000
NPW of O&M	$0	$754,000 (30 yr)	$813,000 (30 yr)	$790,000 (30 yr)
NPW	$0	$770,000 (30 yr)	$2,032,000 (30 yr)	$1.48,000 (30 yr)

NOTES:

ARARs Applicable or Relevant and Appropriate Requirements
LUCs Land use controls
NPW Net present worth
O&M Operation and maintenance
RAOs Remedial Action Objectives
SVOCs Semivolatile organic compounds
TBCs To be considered (criteria)
VOCs Volatile organic compounds

REFERENCES

ABB-ES (ABB Environmental Services, Inc.), 1995. "Naval Installation Restoration Program Plan", Volume 7, Remedial Investigation and Feasibility Study Work and Project Management Plan, Operable Unit 3 (OU 3), NAS Jacksonville, Jacksonville, Florida. Prepared for Southern Division Naval Facilities Engineering Command, North Charleston, South Carolina. March.

ABB–ES, 1996. "Remedial Investigation and Feasibility Study, OU-1", NAS Jacksonville, Jacksonville, Florida. Prepared for Southern Division Naval Facilities Engineering Command, North Charleston, South Carolina. March.

ATSDR (Agency for Toxic Substances and Disease Registry). 1997. ATSDR Toxicological Profiles on CD-ROM. U.S. Public Health Service, Atlanta, GA.

Amdur, M.O., J. Doull C.D. Klassen eds., 1991. Casarett and Doull's Toxicology: The Basic Science of Poisons 3rd edition Macmillan Press New York, New York.

BEI (Bechtel Environmental, Inc.), 1995. Remediation Work Plan for Disease Vector Ecology and Control Center (DVECC) Used Oil Tank Removal. September.

BEI, 1999. Completion Report for Soil Removal at Potential Source of Contamination 47, Pesticide Shop. Prepared for Southern Division Naval Facilities Engineering Command, North Charleston, South Carolina. July.

BRE (Brown and Root Environmental, Inc), 1996. Work Plan for Site Investigation for DVECC. Prepared for Southern Division, Naval Facilities Engineering Command. December.

BRE, 1997. Disease Vector Ecology and Control Center Resource Conservation and Recovery Act (RCRA) Facility Investigation. January.

CA EPA (California Environmental Protection Agency), 2002. Toxic Support Document for Describing Available Cancer Potency Factors. Air Toxics Hot Spots Program Risk Assessment Guidelines. Office of Environmental Health Hazard Assessment, December.

Davis, J. Hal, Michael Planert, and William J. Andrews, 1996. "Simulation of Ground-Water Flow at the U.S. Naval Air Station Jacksonville, Florida, with an Evaluation of the Changes to Ground-Water Movement Caused by Proposed Remedial Designs at Operable Unit 1". Open File 96-597. USGS.

REFERENCES (CONTINUED)

DoD (Department of Defense), 2003. Principles and Procedures for Specifying, Monitoring and Enforcement of Land Use Controls and Other Post-ROD Actions. Communication from Raymond F. Dubois, Deputy Under Secretary of Defense (installation and Environment) to the Honorable Marianne Lamont Horinko, Acting Administrator, United States Environmental Protection Agency. Washington D.C. October 2.

DON (Department of the Navy), 1999. Navy Policy for Conducting Ecological Risk Assessments. Office of the Chief of Naval Operations, Washington, D.C., April 6.

Edwards, N.T., 1983. Polycyclic aromatic hydrocarbons (PAHs) in the terrestrial environment – a review. Journal of Environmental Quality 12:427-441.

Eisler, R., 2000. Handbook of Chemical Risk Assessment: Health Hazards to Humans, Plants, and Animals; Volume 2, Organics. Lewis Publishers, Boca Raton, FL.

Erstfield, K.M. and J. Snow-Ashbrook, 1999. Effects of chronic low level PAH contamination on soil invertebrate communities. Chemosphere 39 (12): 2117-2139.

Fairchild, R. W., 1972. "The Shallow-Aquifer System in Duval County, Florida: Florida Bureau of Geology Report of Investigation No. 59".

Fairchild, R. W., 1977. "Availability of Water in the Floridian Aquifer in Southern Duval and Northern Clay and St. Johns Counties, Florida": U.S. Geological Survey Water – Resources Investigation 76-98, prepared in cooperation with the City of Jacksonville, Public Works Department.

FDEP (Florida Department of Environmental Protection), 2004. Standard Operating Procedures for Field Activities DEP-SOP-001/01, February 1, 2004.

FDEP, February 2005. Technical Report: Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Division of Waste Management, Tallahassee, Florida. February.

Ford and Gurba, 1984. Methods of Determining Relative Contaminant Mobilities and Migration Pathways Using Physical-Chemical Data.

REFERENCES (CONTINUED)

Freeze, R. Allan and John A. Cherry, 1979. "Groundwater".

Friday, G. P., 1998. Ecological Screening Values for Surface Water, Sediment, and Soil. Westinghouse Savannah River Company, Savannah River Site, Aiken, South Carolina. Document No. WSRC-TR-98-00110.

Gibbons, J.A., and M. Alexander, 1989. Microbial degradation of sparingly soluble organic chemicals: phthalate esters. Environmental Toxicology and Chemistry. 8(4): 283-291.

Hem, J.D., 1992. Study and Interpretation of Chemical Characteristics of Natural Water (Third Edition). U.S. Geological Survey Water-Supply Paper 2254, Washington, D.C.

HRP (HRP Spectrum), 1998. Application for Closure Permit, T-56 Engine Wash Area, Hangar 1000, and DVECC – Building 937. September.

HLA (Harding Lawson and Associates), 1999. Sampling Event Report for Potential Source of Contamination 47, Naval Air Station Jacksonville, Florida. February.

HSDB (Hazardous Substance Data Bank), 2001. On-line database. Toxnet National Library of Medicine. Washington, D.C.

Irwin, R. J., M. VanMouwerik, L. Stevens, M. D. Seese, and W. Basham, 1997. "Environmental Contaminants Encyclopedia". National Park Service, Water Resources Division, Fort Collins, Colorado.

Distributed on the Internet via the Nature Net portion of the Park Service Home Page (www.nps.gov), 1998. Also distributed by the NPS and/or NTIS via CD-ROM.

Kale, H. W. and D. S. Maehr, 1990. Florida's Birds. Pineapple Press, Sarasota, FL. 288 pp.

Laskowski, D.A., C.A. Goring, P.S. McCall, and R.L. Swann, 1983. Environmental Risk Analysis for Chemicals. Van Nostrand Reinhold Company, New York, New York.

Leve, G. W., 1966. "Groundwater in Duval and Nassau Counties, Florida": Bureau of Geology Report of Investigation No. 43.

REFERENCES (CONTINUED)

Lyman, W.J., W.F. Reehl, and D.H. Rosenblatt, 1990. Handbook of Chemical Property Estimation Methods. American Chemical Society, Washington, D.C.

NAS Jacksonville (Naval Air Station Jacksonville), 1990. "FFA Site Management Plan": November 14.

NAS Jacksonville Internet site.

Opresko, D.M., 1995. Oak Ridge National Laboratory, Risk Assessment Information System, Toxicity Profiles, Toxicity Summary for Acetone. http://risk.lsd.ornl.gov/tox/profiles/acetone.shtml

Rhodes, C., T. Orton, I. Pratt, P. Batten, H. Bratt, S. Jackson, C. Elcombe, 1986. Comparative Pharmacokinetics and Subacute Toxicity of Di(2-ethylhexyl)phthalate in Rats and Marmosets: Extrapolation of Effects in Rodent to Man. Environmental Health Perspective 65:299-308.

RUST (RUST Environment and Infrastructure), 1996. Closure Activities Report and Certification for DVECC Tank and Drains at Building 937. January.

Sallabanks, R. and F.C. James, 1999. American Robin (*Turdus migratorius*). In: *The Birds of North America,* No. 462 (A. Poole, P. Stettenheim, and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, Pennsylvania.

Scott, T. M., 1988. "The Lithostratigraphy of the Hawthorn Group (Miocene) of Florida". Florida Geological Survey Bulletin No. 59.

Singh, A., Singh, A.K. and R.W. Maichle, 2004. ProUCL Version 3.0 User Guide. USEPA. EPA/660/R04/079, April.

Spechler, R. M., 1982. "Generalized Configuration of the Top of the Limestone Unit of the Lower part of the Surficial Aquifer, Duval County, Florida".

Spectrum Laboratories, 2003. Chemical Fact Sheets. CAS #85687, CAS #117817, and CAS# 131113. http://www.speclab.com/compound/chemabc.htm

REFERENCES (CONTINUED)

Suter, G. W. and C. L. Tsao, 1996. "Toxicological benchmarks for screening potential contaminants of concern for effects on aquatic biota". 1996 Revision. ES/ER/TM-96/R2. Risk Assessment Program, Health Sciences Division, Oak Ridge National Laboratory, Tennessee.

Toth, D. J., 1990. "Geohydrologic Summary of the Floridian Aquifer in Coastal Areas of Nassau, Duval, and Northern St. Johns Counties" St. Johns River Water Management District Technical Publication SJ 90-5, Palatka, Florida.

TOXNET, 2003. http://toxnet.nlm.nih.gov/. September

TtNUS (Tetra Tech NUS, Inc.), 2000. Remedial Investigation and Feasibility Study Work Plan for Potential Source of Contamination 47. Prepared for Southern Division, Naval Facilities Engineering Command, Charleston, South Carolina.

TtNUS, 2001. Bench Scale Treatability Studies, Operable Unit 3 Letter Report, Naval Training Center, Orlando Florida. Prepared for Naval Facilities Engineering Command SouthEast, North Charleston, South Carolina. February.

TtNUS, 2006. Remedial Investigation/Feasibility Study Sampling and Analysis Plan Addendum for Potential Source of Contamination 47, Naval Air Station Jacksonville, Jacksonville, Florida. Prepared for Naval Facilities Engineering Command Southeast, North Charleston, South Carolina. November.

TtNUS, 2007. Draft Bench-Scale Treatability Study for Potential Source of Contamination 47, Naval Air Station Jacksonville, Jacksonville, Florida. Prepared for Naval Facilities Engineering Command Southeast, North Charleston, South Carolina. February.

USDA (U.S. Department of Agrilculture), 1978. "Soil Survey of Duval County, Florida".

USEPA (U.S. Environmental Protection Agency), 1979. Water-Related Environmental Fate of 129 Priority Pollutants. EPA/440/4-79/029, Washington, D.C., December.

USEPA, 1982. Aquatic Fate Process Data for Organic Priority Pollutants, Office of Water Regulations and Standards, Washington, D.C., December.

REFERENCES (CONTINUED)

USEPA, 1988. "Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA, Interim Final". USEPA/540/G-89/004. Office of Solid Waste and Emergency Response (OSWER), Washington D.C. October.

USEPA, 1989. Risk Assessment Guidance for Superfund: Volume I, Human Health Evaluation Manual (Interim Final). EPA/540/1-89/002, Washington, D.C., December.

USEPA, 1991. Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors. Directive 9285.6-03, Office of Solid Waste and Emergency Response, Washington, D.C., March.

USEPA, 1992. Handbook of RCRA Groundwater Monitoring Constituents: Chemical and Physical Properties.

USEPA. 1993. Wildlife Exposure Factors Handbook: Volumes I and II. EPA/600/R-93/187. USEPA Office of Research and Development, Washington, D.C.

USEPA, 1994. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, Office of Solid Waste and Remedial Response, Washington, District of Columbia.

USEPA, 1994. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, Office of Solid Waste and Remedial Response, Washington, District of Columbia.

USEPA, 1996. Soil Screening Guidance, Technical Background Document. EPA/540/R-96/018. May.

USEPA, 1997a. "Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments".

USEPA, 1997b. Exposure Factors Handbook, EPA/600/p-95/002 Fa.

USEPA, 1997c. Health Effects Assessment Summary Tables FY 1997. Office of Solid Waste and Emergency Response, Washington, D.C., July.

REFERENCES (CONTINUED)

USEPA, 2000a. Supplemental Guidance to RAGS: Region 4 Bulletins, Human Health Risk Assessment Bulletins. EPA Region 4, originally published November 1995, Website version last updated May 2000: http://www.epa.gov/region4/waste/oftecser/healtbul.htm.

USEPA, 2000b. Amended Guidance on Ecological Risk Assessment at Military Bases: Process Considerations, Timing of Activities, and Inclusion of Stakeholders. Memorandum from Ted. W. Simon, Region 4 EPA Office of Technical Services, Atlanta, Georgia, June 23.

USEPA, 2001. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (Peer Review Draft). Report OSWER 9355.4-24, Exhibit C-4, March 2001.

USEPA, 2001a. External Review Draft for Trichloroethylene Health Risk Assessment: Synthesis and Characterization. Office of Research and Development, Washington, D.C. EPA/600/P-1/002A. August.

USEPA, 2001b. Supplemental Guidance to RAGS: Region 4 Bulletins, Ecological Risk Assessment. Waste Management Division, Atlanta, Georgia. Originally published November 1995. Website version last updated November 30, 2001: http://www.epa.gov/region4/waste/ots/ecolbul.htm

USEPA, 2002. On-line Region 4 Ecological Risk Assessment Bulletin – Supplement to RAGS. (http://www.epa.gov/reion4/waste/ots/ecolbul.htm)

USEPA, 2002a. Draft Guidance for Evaluating the Vapor Intrusion to Indoor AIr Pathway from Groundwater and Soils. Office of Solid Waste and Emergency Response, Washington, D.C., EPA 530-F-02-052. November.

USEPA, 2002b. Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. Office of Emergency and Remedial Response, Washington, D.C., OSWER 9285.6-10. December.

USEPA, 2002c. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. Office of Solid Waste and Emergency Response, Washington, D.C., December.

REFERENCES (CONTINUED)

USEPA, 2002d. National Primary Drinking Water Standards, List of Contaminants and Their MCLs, EPA 816-F-02-013, Washington, D.C., July. Accessed online at www.epa.gov/safewater/mcl.html.

USEPA, 2003. User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings. Office of Emergency and Remedial Response, Washington, D.C., June.

USEPA, 2004a. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. EPA/540/R99/005. Office of Emergency and Remedial Response, Washington, D.C. July.

USEPA, 2004b. "Preliminary Remedial Goals Table, Region 9, Solid and Hazardous Waste Programs, San Francisco, California". October.

USEPA, 2006. 2006 Edition of the Drinking Water Standards and Health Advisories. Office of Water. EPA 822-R-06-013. August.

USEPA, 2007a. Soil Screening Levels for Superfund Sites Internet Site. http://rais.ornl.gov/epa/ssl1.shtml. February.

USEPA, 2007b. Integrated Risk Information System (IRIS) On-line Data Base. April.

USGS (U.S. Geological Survey), 1993. *Orange Park Quadrangle, Florida, 7.5 Minute Series (Topographic)*. United States Department of the Interior Geological Survey.

VDEQ (Virginia Department of Environmental Quality), 2002. Virginia Department of Environmental Quality (VDEQ, online -http://www.deq.state.va.us/brownfieldweb/vrp.html).

Williams, G.M. and J.H. Weisburger, 1991. "Chemical Carcinogensis," in M.O. Amdur, J. Doull, and C.D. Klaassen, eds., Cassarett and Doull's Toxicology, the Basis Science of Poisons, 4th Edition, Pergamon Press, New York, NY.

Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62467-94-D-0888

Rev. 1
05/18/07

Remedial Investigation and Feasibility Study
for
Potential Source of Contamination 47

Volume II: Appendices A Through N

Naval Air Station Jacksonville
Jacksonville, Florida

Contract Task Order 0162

May 2007

NAVFAC
Naval Facilities Engineering Command
Southeast
2155 Eagle Drive
North Charleston, South Carolina 29406

TETRA TECH NUS, Inc.

APPENDIX A

LITHOLOGIC BORING LOGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N3966
DRILLING COMPANY: ATI
DRILLING RIG:

BORING NUMBER: SB 27 - NORTHWEST
DATE: 6-28-01
GEOLOGIST: L. Knight
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				2			Sand |f-vf|						
				4			Sand |f-vf| pale yellow/brwn/tan						
				6			clayey sand /mottled red-orang-yel/org-pale gray						
				8			clayey sand						0
				10'			Sand, w Trace clay| f-vf/LT. gray-brwn-brwn/orange						
				12									
				14			Nothing recorded						
				16									
				18			Sand |f-med| white-pale orange						
				20'									
				22			Sandy clay, gray-red-orange						
				24			Sand |f-m| tan, red, org						
				26			Sand |m| pale brwn/gray						
				28									
				30'			Sand |f| w/ dark gray clay stringers (2" thick)						
				32									
				34			Sand |f-m| light org/brwn						
				36			Sand/med/gray						
				38									
				39-40'			3" clay, gray						
				42									
				44			Sand |f| Tan						
				46									
				48									
				50'			EOB						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): ____

Remarks: ____

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N 3966
DRILLING COMPANY: ATI
DRILLING RIG:

BORING NUMBER: SB21 - NORTHEAST
DATE: 7-1-01
GEOLOGIST: J. Ferranti
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				2			Sand, lt brn/white (fine)						
				4			Sand, pale brn, yellow orange, fine						
				6			Clayey sand, mottled red/orange, pale gray, lt brn, yellow						
				8									0
				10			Sand, w/clay mottled as above						
				12			Sand lf-m] tan grading						
				15'			To Lt Tan in lower 6"						
				20			Sand lf-m] Lt. Tan						
				25'									
							Sand lf-m] light tan grading						
				30			To ~~tan~~ Tan in lower 18"						
							3" of clay/sand at 18", orange						
							Sand lF-M] brn-orange, 3" dk gray clay @ 34'						
				35'			Sand lm] gray						
							Sand lf] gray						
				40'			3" dk gray clay at 40'						
							Sand lf-m] dk gray						
				45'			Sand lf] lt Gray						
							EOB						
				50'									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: * M. Peterson believes this is where Transition zone to Hawthorne formation is

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N3966
DRILLING COMPANY: ATI
DRILLING RIG:

BORING NUMBER: SB01 - SOUTHEAST
DATE: 6-30-01
GEOLOGIST: T. Thompson
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				2'			Sand, V-VF/dk gray						
				4'									
				6'			Sand, F, VF/lt gray-brwn						
				8'									
				10'			6" Sand w/clay, brwn/gray						0
				12									
				14									
				16			Sand (m) lt Tan						
				18									
				20'									
				22			lt Tan, lt brwn						
				24'			f-m sand						
				26'			Sand (f-m) Lt. Tan						
				28'									
				30'			Sand (m) pale brwn						
				32'									
				34'			Sand (m) gray						
				36			w/some fines						
				38'			Sand (m) Gray						
				40'			Coarse sand from 37.5-38						
				42'									
				44'			Sand w/clay (43-44) gray To brwn/gray						
				46'			Sandy Clay/coarse/dk gray						
				48'			Clay/Tan Limestock/course						
				50'									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N 3966
DRILLING COMPANY: ATI
DRILLING RIG:

BORING NUMBER: SB05-SOUTHWEST
DATE: 7-2-01
GEOLOGIST: T. Thompson
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				2'			?						
				4			Sand lfl dk gray (6")						
				6			grading To dk brn (6")						
				8			To lt Gray/Tan clayey sand						
				10'			clayey sand lf-m	Lt Gray					0
				12			orange						
				14'			Clayey sand lf-ml						
				16			Lt Gray. orange						
				18'			clay light-dk gray						
				20'			Sand lml Tan						
							clayey sand lml gray						
				24'			Clay gray-orange						
							Clay - gray						
							Sand lf dk gray						
				30'									
							Sand lf-ml gray						
				36'									
				40									
				44'									
				50'									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N3966
DRILLING COMPANY: ATI
DRILLING RIG:

BORING NUMBER: SB 32 - CENTRAL
DATE: 7-1-01
GEOLOGIST: J. Ferranti
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							Asphalt						
							NA						
				5'			Sand lfl LT Tan grading To dark Tan						
							Clayey sand lfl gray						0
				10' 10.5'			Sand lfl LT Tan						
							NA						
				16			Sand lfl lt Tan w/org mottling ~14'3"						
							NA						
				20'			Sand lf-m| LT Tan grading Sandy To Tan						
				30'			Clayey sand lf-m| orange(8")						
							Sandy clay LT gray						
				40'			Sand lfl LT Gray						
							Sand lf-m| brwn/gray grading To gry @ 42-44'						
							Sand lf-m| gray						
				50'			EOB						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #: ____

APPENDIX B

DOCUMENTATION OF
SLUG TESTS CONDUCTED AT PSC 47

Documentation of Slug Tests Conducted at PSC 47, Jacksonville Naval Air Station, Jacksonville, Florida

U.S. Geological Survey

Prepared in cooperation with
Southern Division Naval Facilities Engineering Command
Environmental Technical Support Branch

Tallahassee, Florida
2003

Documentation of Slug Tests Conducted at PSC 47, Jacksonville Naval Air Station, Jacksonville, Florida

Prepared by Hal Davis
Reviewed by Gary Mahon

SUMMARY OF SLUG TEST RESULTS:

Monitoring Well	Well Depth, in ft	Screen Length, in ft	Hydraulic Conductivity, in ft/day
MW13S	14.5	10	4
MW13D	49.0	5	3
MW15S	13.0	10	7
MW15D	47.0	5	3
MW16S	13.0	10	4
MW16D	41.5	5	0.8
MW17S	12.5	10	3
MW17D	42.0	5	0.6
MW18S	14.0	10	3
MW18D	46.0	5	0.3
MW19S	12.5	10	4
MW20I	25.0	5	3
MW23S	15.0	10	4
MW24D	15.0	5	7
MW25S	14.0	10	3
MW26S	13.0	10	4
MW27S	13.0	10	3

INTRODUCTION

Slug tests were performed on 17 monitoring wells located at PSC 47 of the Jacksonville Naval Air Station, Jacksonville, Florida. PSC 47 is a contaminated site and the contamination consists of pesticides and some chlorinated solvents. A description of the wells used for the slug testing is given in table 1, and the well locations are shown on figure 1. The purpose of the slug testing was to determine the hydraulic conductivity of the surficial aquifer at this site.

Table 1. Well characteristics and slug test results.

[a: falling head slug tests are not applicable when the water table intersects the well screen; b: the discrepancy between the theoretical displacement calculated from the slug volume and well diameter was greater than 20 percent of the observed displacement in the well.]

Monitoring Well	Depth, in ft	Screen Length, in ft	Hydraulic Conductivity From Falling Head Test, in ft/day	Hydraulic Conductivity From Rising Head Test, in ft/day	Recommended Hydraulic Conductivity, in ft/day
MW13S	14.5	10	na[a]	4	4
MW13D	49.0	5	3	3	3
MW15S	13.0	10	na[a]	7	7
MW15D	47.0	5	3	3	3
MW16S	13	10	na[a]	4	4
MW16D	41.5	5	0.8	0.8	0.8
MW17S	12.5	10	na[a]	3	3
MW17D	42.0	5	0.6	0.5	0.6
MW18S	14.0	10	na[a]	3	3
MW18D	46	5	0.3	0.3	0.3
MW19S	12.5	10	3[a]	4[b]	4
MW20I	25.0	5	2	3	3
MW23S	15.0	10	4	4[b]	4
MW24D	10	5	7	7	7
MW25S	14.0	10	na[a]	3	3
MW26S	13.0	10	na[a]	4	4
MW27S	13.0	10	na[a]	3	3

The surficial aquifer at the site consists of a combination of interbedded fine sands, silts, and clays (figure 2). It also contains the water table. Underlying the surficial aquifer is the very low permeability Hawthorn Formation. The lithology logs for all the wells are contained in Appendix A.

During the slug testing water levels were measured using Solinst Levelogger series pressure transducers and were checked periodically by hand measurements using an electric tape. The slug tests were analyzed using a spreadsheet based program documented by Halford and Kuniansky (2002) using the Bower and Rice method (1976).

The field procedure for all the tests was as follows: 1) the pressure transducer was installed in the well and allowed to equilibrate for about 10 minutes, 2) the slug was lowered into the well, 3) water levels were collected until the water level in the well returned to the original water level [resulting in a falling-head slug test], 4) the slug was pulled out of the well [resulting in a rising-head slug test] and water levels were collected until the original water level was reached, 5) the pressure transducer was removed from the well and the data were downloaded to a laptop computer. The sampling rate for the transducer was 1 second for almost all the tests. However, a few of the tests used a sampling rate of 5 seconds because they had slow recovery rate. The data are contained on a CD-ROM disk accompanying the report.

SLUG TEST RESULTS AND DISCUSSION

The horizontal hydraulic conductivities determined for the water table wells are shown in figure 3, and the conductivities for the deeper confined wells are shown in figure 4. All of the slug test information and results are shown in figures 5 through 30; the figures are presented by ascending well number although they are not discussed in this order. In the shallow wells, where the water-table intersects the well screen, falling head tests are not applicable because water will flow into the vadose zone and this will result in a calculated hydraulic conductivity that is too high (Bouwer, 1988).

In general the slug test analysis was relatively simple, a straight line was fitted to the slope of the measured data and the program calculated the horizontal hydraulic conductivity based on the Bower and Rice method (1976). The sand pack in some of the water table wells extended above the standing water level in the well. The result of this construction was that the sand pack filled and drained with each test for these wells. Evidence of this can be clearly seen on the data from well MS16S (figure 11). The uniformly sloping data during the first 20 seconds of the test was the sand pack draining; the second

straight line segment is due to the aquifer hydraulic conductivity (Bower, 1979) and is the data fitted to the straight line. All of the wells in which the well screen intersected the water table showed this to some degree. The data from the confined wells showed a uniform slope from the first few seconds of the test until near the end. An example of this can be seen in the data form MS15D (figure 9).

The hydraulic conductivities were fairly uniform for the water table wells and ranged from 3 to 7 ft/day (figure 3). These values fall within the ranged of expected values for the station compared to three 24-hour multiple well aquifer tests previously performed at the station. The first was conducted in a silty sand that produced a hydraulic conductivity of 5.0 ft/day (Davis, 1995); the second was conducted in a relatively clean fine sand that produced a hydraulic conductivity of 20 ft/day (Davis, 1996a); and the third was conducted in a fine sand with silt and clay that produced a hydraulic conductivity of 0.6 ft/day (Davis, 1996b).

The hydraulic conductivities for the confined wells computed for these tests ranged from 0.3 ft/day to 7 ft/day (figure 4). Based on the above discussion, these are within the range of values expected at the Air Station. The confined wells had the greatest range of conductivities computed at the site, indicating that the lithology may be more variable in the deeper part of the surficial aquifer than in the shallower part.

REFERENCES

Bouwer, H. and Rice, R.C., 1976, A slug test for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells: Water Resources Research, Vol. 12, No. 3, p. 423-428

Bouwer, H., 1988, The Bouwer and Rice slug test - an update: Ground Water, Vol. 27, No. 3, p. 304-309

Davis, J. H., 1995, Documentation of aquifer test conducted near Operable Unit 1 at the U.S. Naval Air Station, Jacksonville, Florida, U.S. Geological Survey Open-File Report, 25 p.

-----, J. H., 1996a, Documentation of aquifer test conducted at Area D, Operable Unit 3, U.S. Naval Air Station, Jacksonville, Florida, U.S. Geological Survey Open-File Report, 30 p.

-----, J. H., 1996b, Documentation of aquifer test conducted at Area A, Operable Unit 3, U.S. Naval Air Station, Jacksonville, Florida, U.S. Geological Survey Open-File Report, 15 p.

Halford, K.J. and Kuniansky, E. L., Documentation of spreadsheets for the analysis of aquifer-test and slug-test data: U. S. Geological Survey Open-File Report 02-197, 50 p.

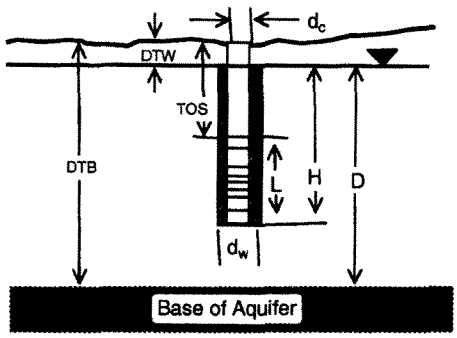
APPENDIX A: LITHOLOGY LOGS

WELL ID: MS-23

Local ID:
Date: 2/13/2003
Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	3.67 Feet
top of screen (TOS)	5 Feet
Base of Aquifer (DTB)	15 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

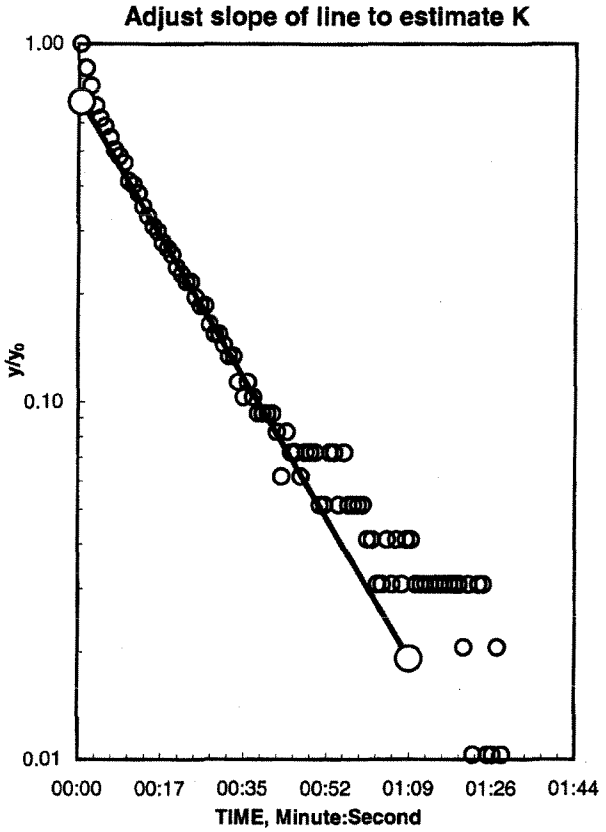
L_{wetted}	10 Feet
D =	11.33 Feet
H =	11.33 Feet
L/r_w =	29.09
$y_{0\text{-DISPLACEMENT}}$ =	0.97 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	2.041
ln(Re/rw) =	2.598
Re =	4.62 Feet
Slope =	0.022667 $\log_{10}$/sec
$t_{90\%}$ recovery =	44 sec

Slug discrepancy of 27% is greater than maximum of 20%

K = Error Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

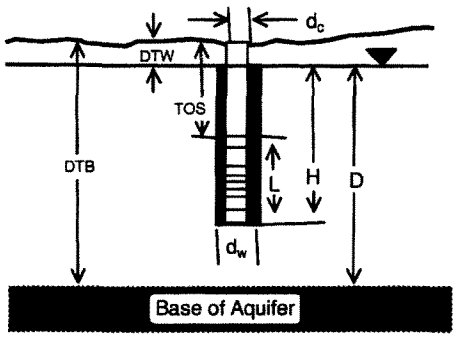
Figure 30. Results of rising-head slug test for well MW23S.

WELL ID: MS-24

Local ID:
Date: 2/11/2003
Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	2.64 Feet
top of screen (TOS)	37 Feet
Base of Aquifer (DTB)	42 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Fine Sand



COMPUTED

L_{wetted}	5 Feet
D =	39.36 Feet
H =	39.36 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.18 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

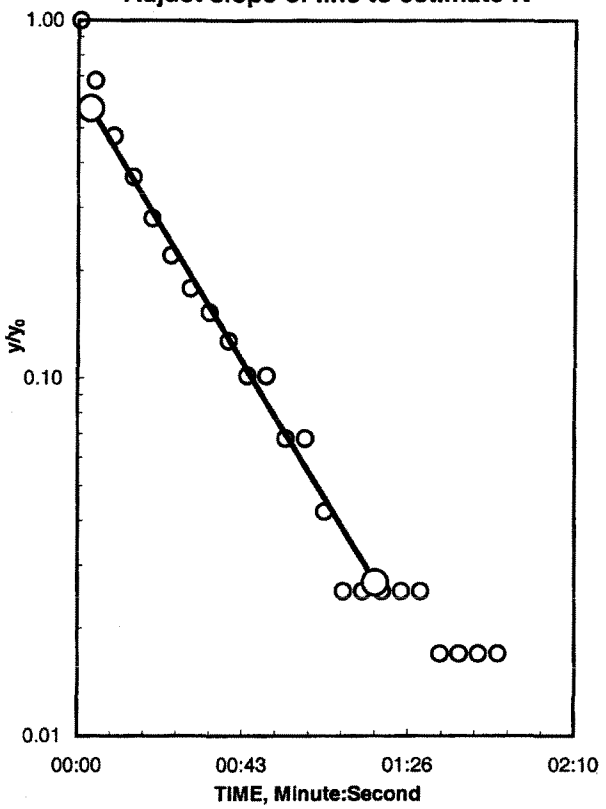
From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.991
Re =	6.84 Feet
Slope =	0.017791 $\log_{10}$/sec
$t_{90\%}$ recovery =	56 sec

Input is consistent.

K = 7 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 31. Results of falling-head slug test for well MW24D.

WELL ID: MS-24

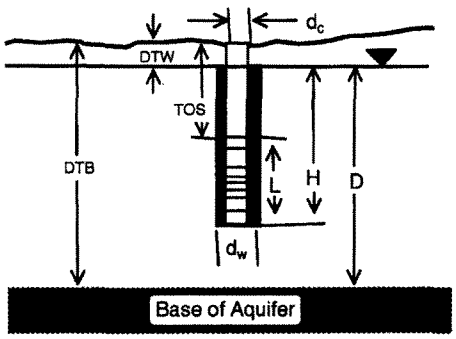
Local ID:

Date: 2/11/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	2.64 Feet
top of screen (TOS)	37 Feet
Base of Aquifer (DTB)	42 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Fine Sand



COMPUTED

L_{wetted}	5 Feet
D =	39.36 Feet
H =	39.36 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.08 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

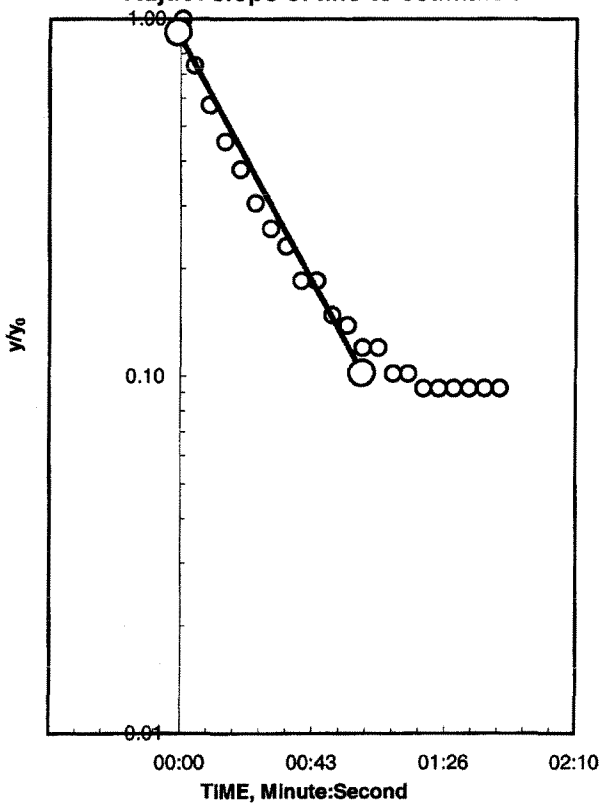
From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.991
Re =	6.84 Feet
Slope =	0.01578 $\log_{10}$/sec
$t_{90\%}$ recovery =	63 sec

Input is consistent.

K = 7 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 32. Results of rising-head slug test for well MW24D.

WELL ID: MS-25S

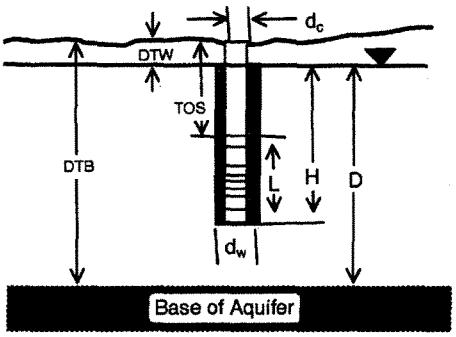
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.82 Feet
top of screen (TOS)	4 Feet
Base of Aquifer (DTB)	14 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

L_{wetted}	9.18 Feet
D =	9.18 Feet
H =	9.18 Feet
L/r_w =	26.71
$y_{0\text{-DISPLACEMENT}}$ =	1.08 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

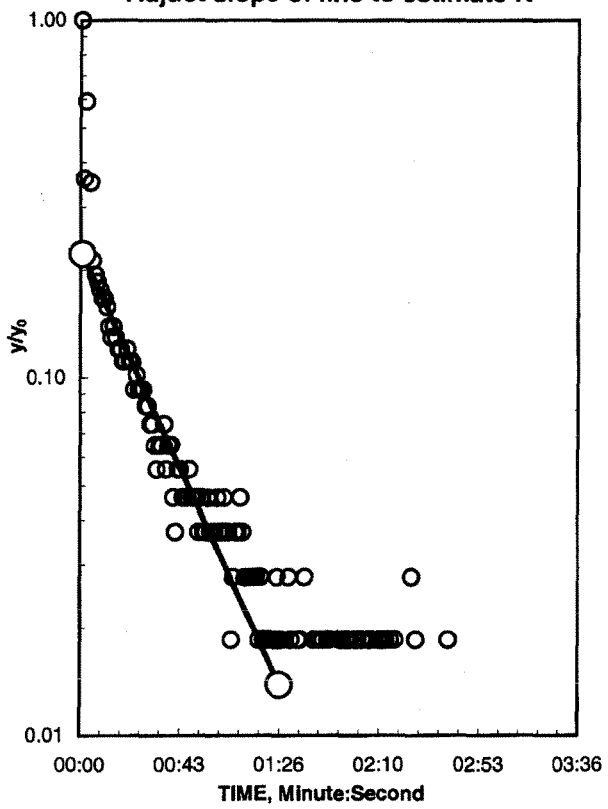
From look-up table using L/r_w

Fully penetrate C =	1.964
ln(Re/rw) =	2.449
Re =	3.98 Feet
Slope =	0.014088 $\log_{10}$/sec
$t_{90\%}$ recovery =	71 sec

Input is consistent.

K =	3 Feet/Day

Adjust slope of line to estimate K



REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 33. Results of falling-head slug test for well MW25S.

MW25S Bouwer-Rice Falling.xls

WELL ID: MS-25S

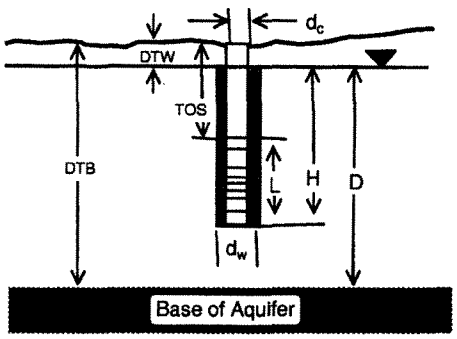
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.82 Feet
top of screen (TOS)	4 Feet
Base of Aquifer (DTB)	14 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

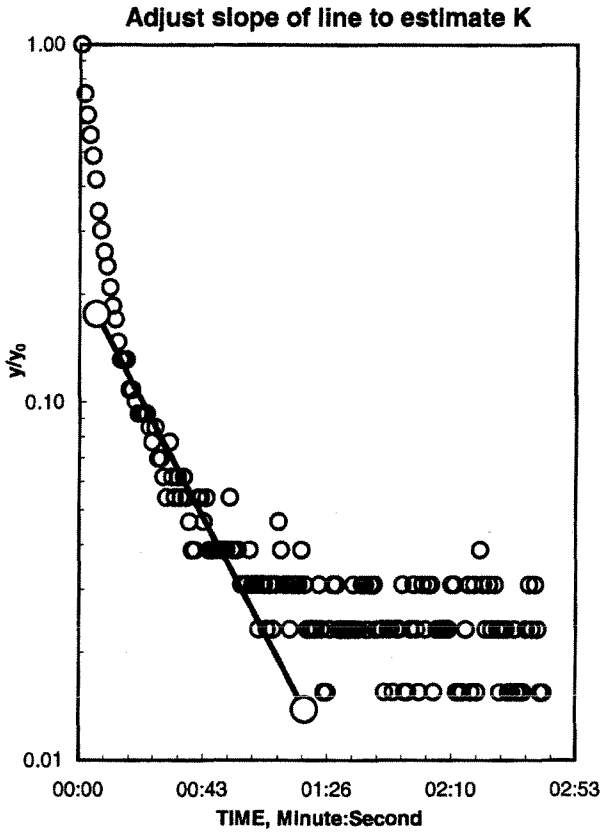
L_{wetted} =	9.18 Feet
D =	9.18 Feet
H =	9.18 Feet
L/r_w =	26.71
$y_{0\text{-DISPLACEMENT}}$ =	1.29 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.964
ln(Re/rw) =	2.449
Re =	3.98 Feet
Slope =	0.015171 $\log_{10}$/sec
$t_{90\%}$ recovery =	66 sec

Input is consistent.

K = 3 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 34. Results of rising-head slug test for well MW25S.

WELL ID: MS-26S

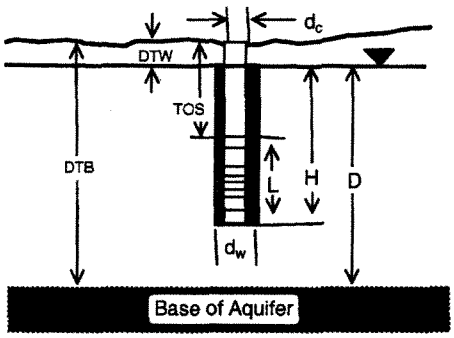
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.77 Feet
top of screen (TOS)	3 Feet
Base of Aquifer (DTB)	13 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centra



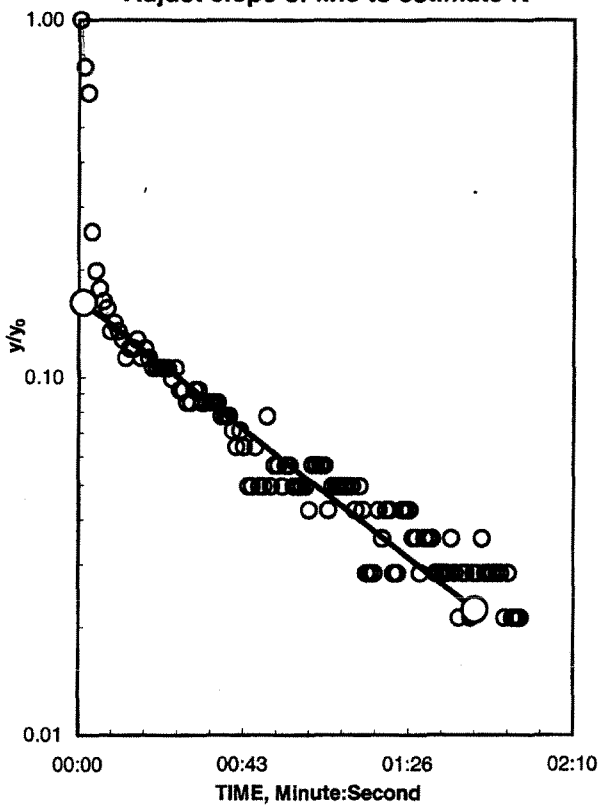
COMPUTED

L_{wetted}	8.23 Feet
D =	8.23 Feet
H =	8.23 Feet
L/r_w =	23.94
$y_{0\text{-DISPLACEMENT}}$ =	1.41 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet
From look-up table using L/r_w	
Fully penetrate C =	1.874
ln(Re/rw) =	2.355
Re =	3.62 Feet
Slope =	0.008373 $\log_{10}$/sec
$t_{90\%}$ recovery =	119 sec

Input is consistent.

K = 2 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 35. Results of falling-head slug test for well MW26S.

WELL ID: MS-26S

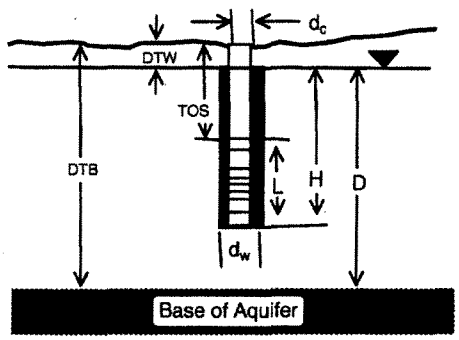
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.77 Feet
top of screen (TOS)	3 Feet
Base of Aquifer (DTB)	13 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centra



COMPUTED

L_{wetted}	8.23 Feet
D =	8.23 Feet
H =	8.23 Feet
L/r_w =	23.94
$y_{0\text{-DISPLACEMENT}}$ =	1.08 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

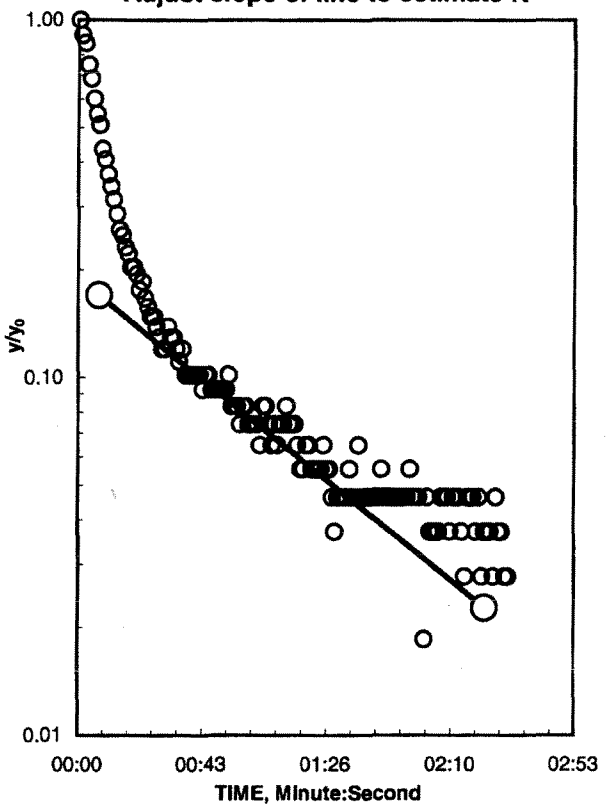
From look-up table using L/r_w

Fully penetrate C =	1.874
ln(Re/rw) =	2.355
Re =	3.62 Feet
Slope =	0.006514 $\log_{10}$/sec
$t_{90\%}$ recovery =	154 sec

Input is consistent.

K =	1 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

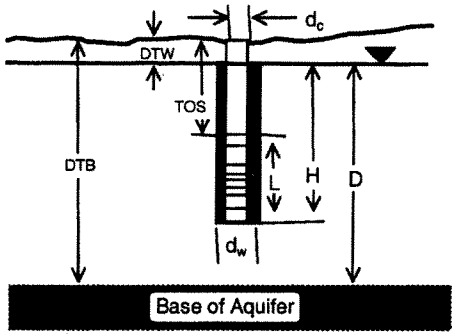
Figure 36. Results of rising-head slug test for well MW26S.

WELL ID: MS-27S

Local ID:
Date: 2/13/2003
Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	5.25 Feet
top of screen (TOS)	3 Feet
Base of Aquifer (DTB)	13 Feet
Annular Fill:	
across screen -- Medium Sand	
above screen -- Backfill	
Aquifer Material -- Surficial Aquifer, centr	



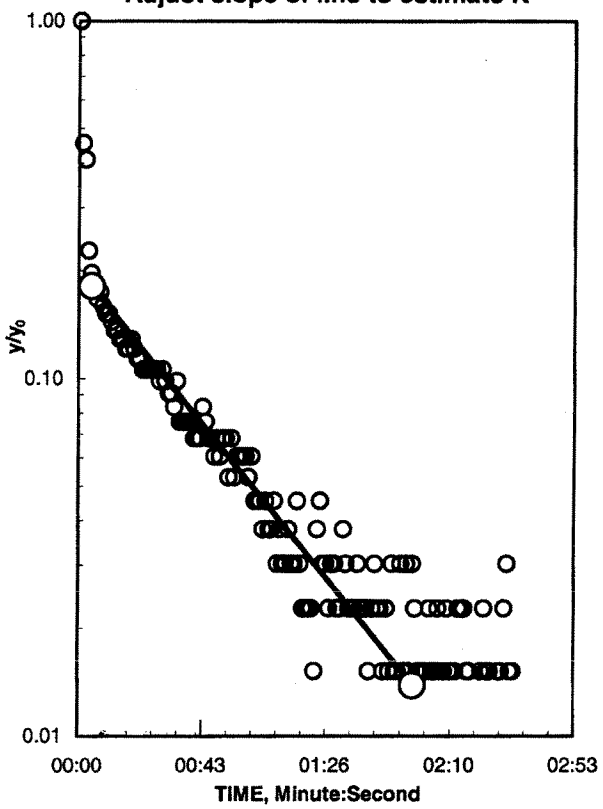
COMPUTED

L_{wetted}	7.75 Feet
D =	7.75 Feet
H =	7.75 Feet
L/r_w =	22.55
$y_{0\text{-DISPLACEMENT}}$ =	1.32 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet
From look-up table using L/r_w	
Fully penetrate C =	1.825
ln(Re/rw) =	2.304
Re =	3.44 Feet
Slope =	0.009959 $\log_{10}$/sec
$t_{90\%}$ recovery =	100 sec

Input is consistent.

K = 2 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 37. Results of falling-head slug test for well MW27S.

WELL ID: MS-27S

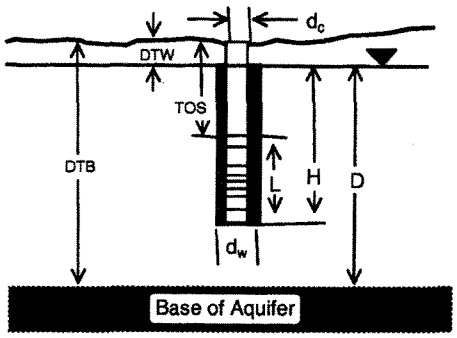
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	5.25 Feet
top of screen (TOS)	3 Feet
Base of Aquifer (DTB)	13 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centra



COMPUTED

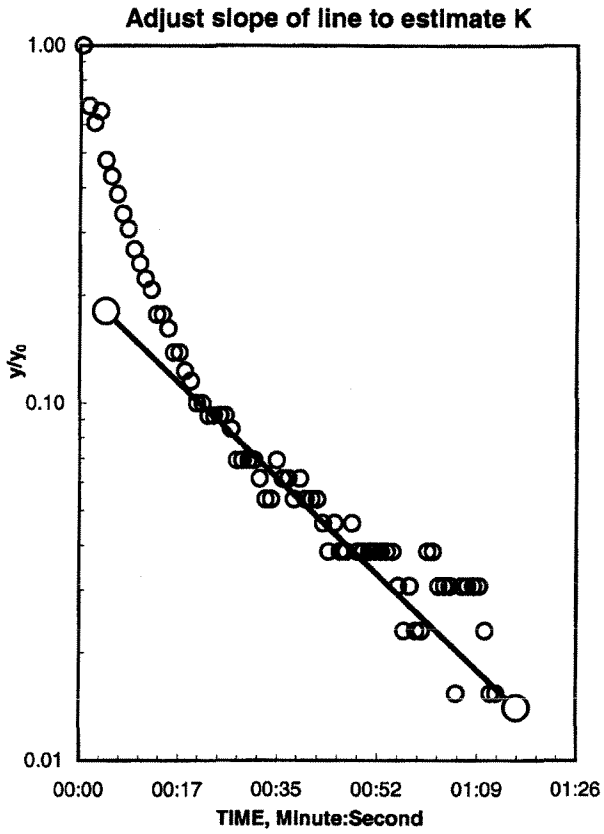
L_{wetted} =	7.75 Feet
D =	7.75 Feet
H =	7.75 Feet
L/r_w =	22.55
$y_{0\text{-DISPLACEMENT}}$ =	1.30 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.825
ln(Re/rw) =	2.304
Re =	3.44 Feet
Slope =	0.015535 $\log_{10}$/sec
$t_{90\%}$ recovery =	64 sec

Input is consistent.

K = 3 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Risnig head test.

Figure 38. Results of rising-head slug test for well MW27S.

MW27S Bouwer-Rice Rising.xls

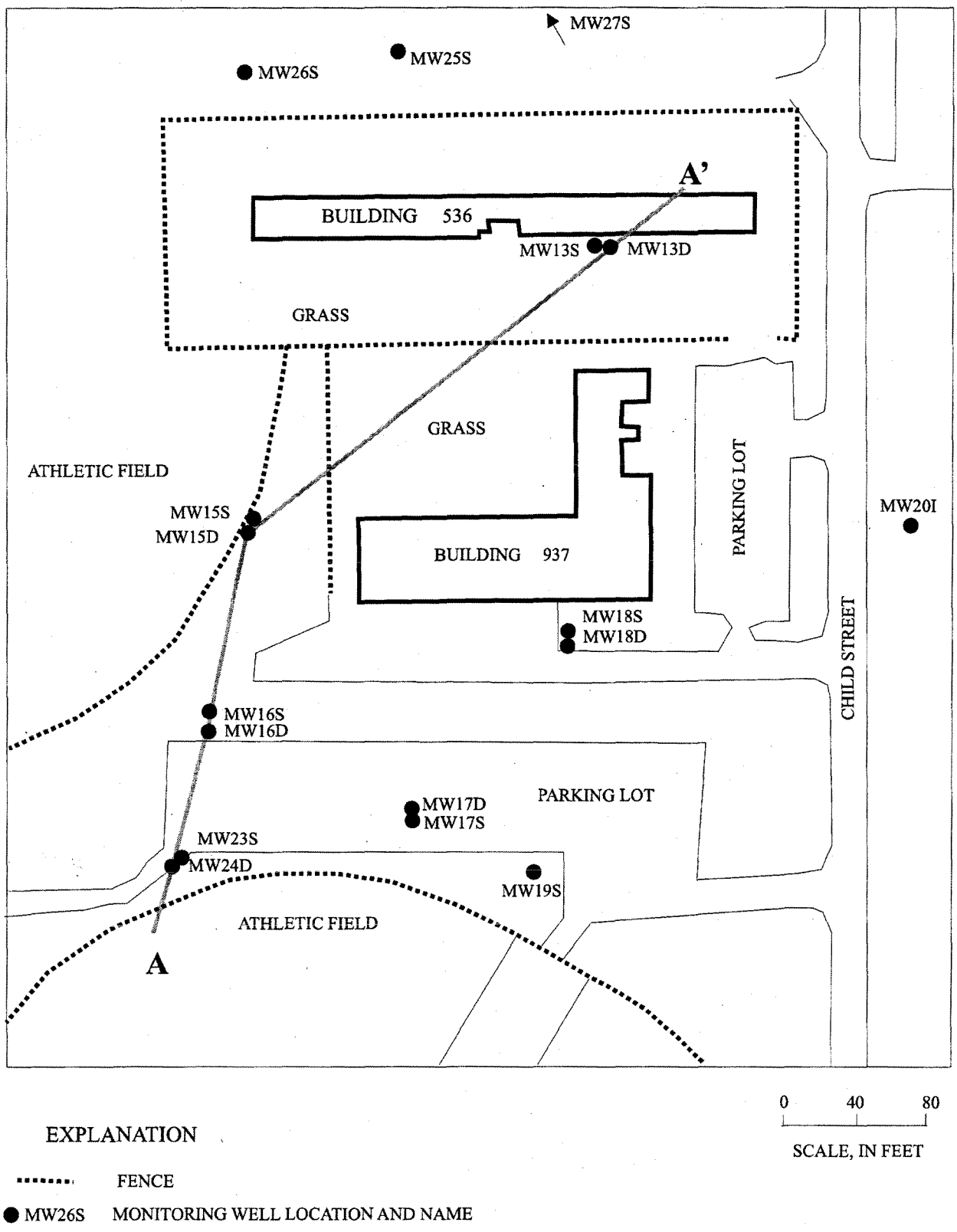


Figure 1. Location of wells used for slug testing at PSC 47.

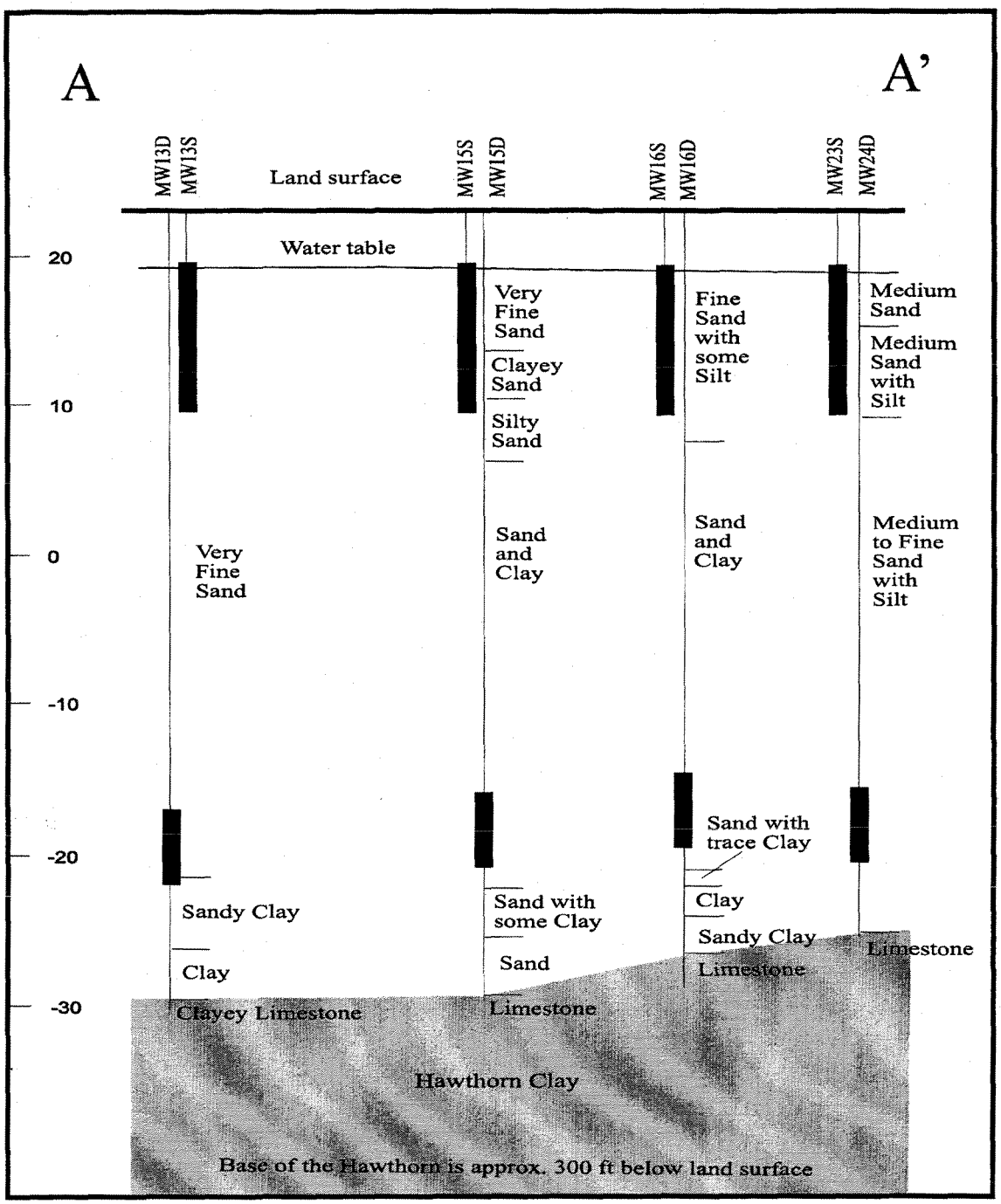


Figure 2. Geologic cross section at PSC 47.

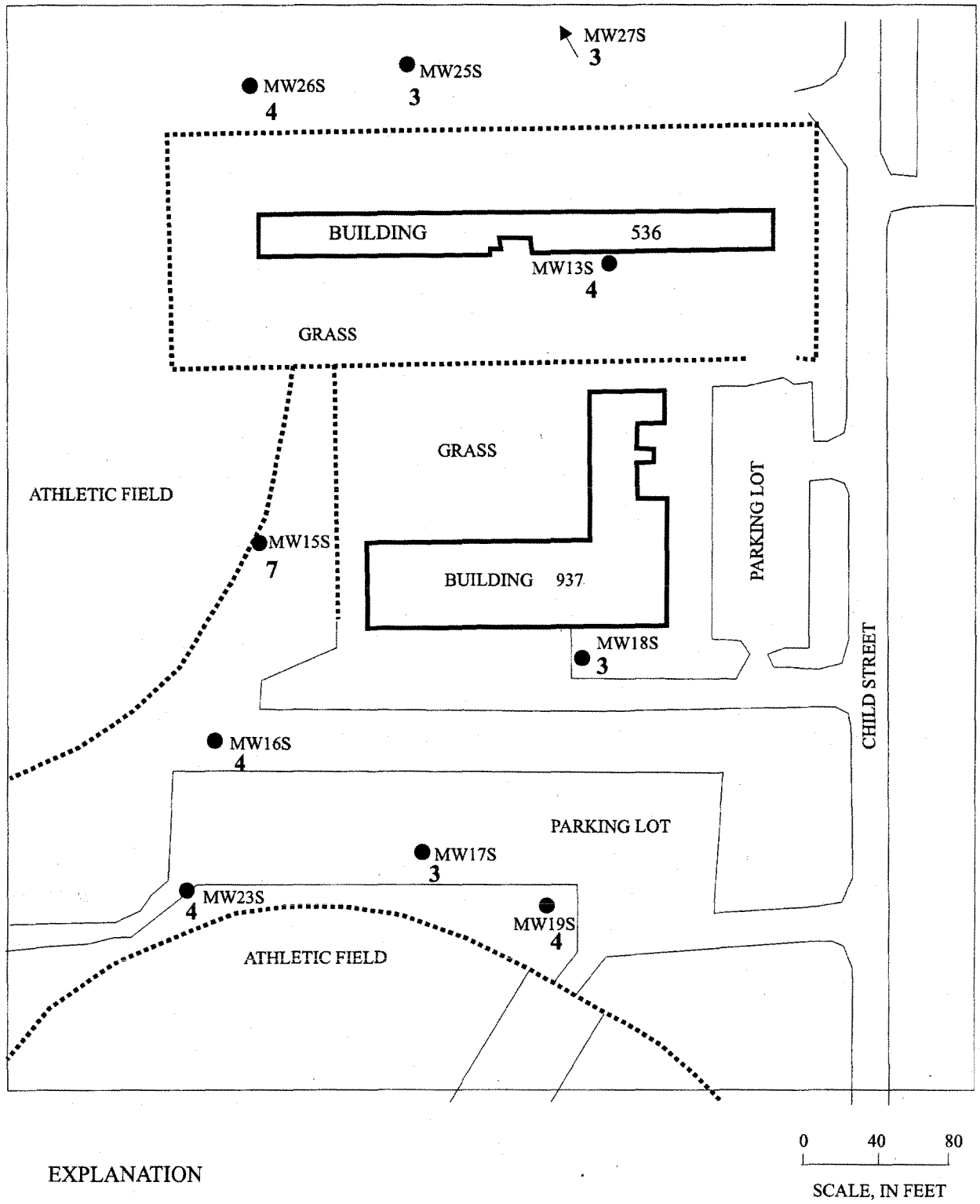


Figure 3. Hydraulic conductivities in the water table wells.

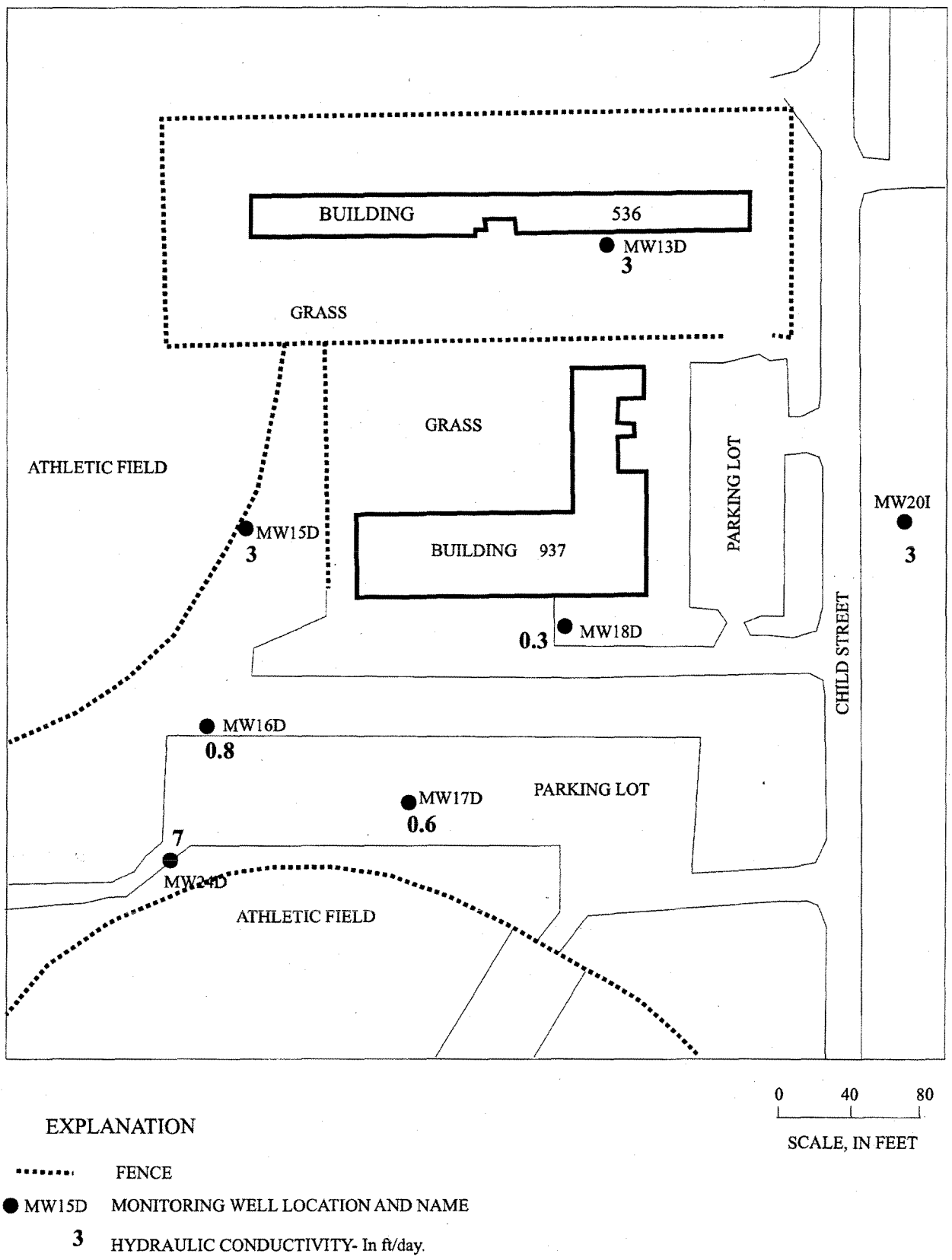


Figure 4. Hydraulic conductivities in the confined wells.

WELL ID: MS-13S

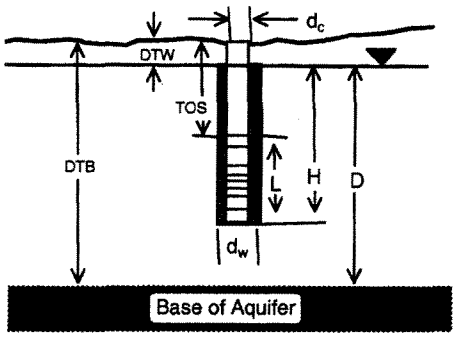
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.82 Feet
top of screen (TOS)	2.5 Feet
Base of Aquifer (DTB)	12.5 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centra



COMPUTED

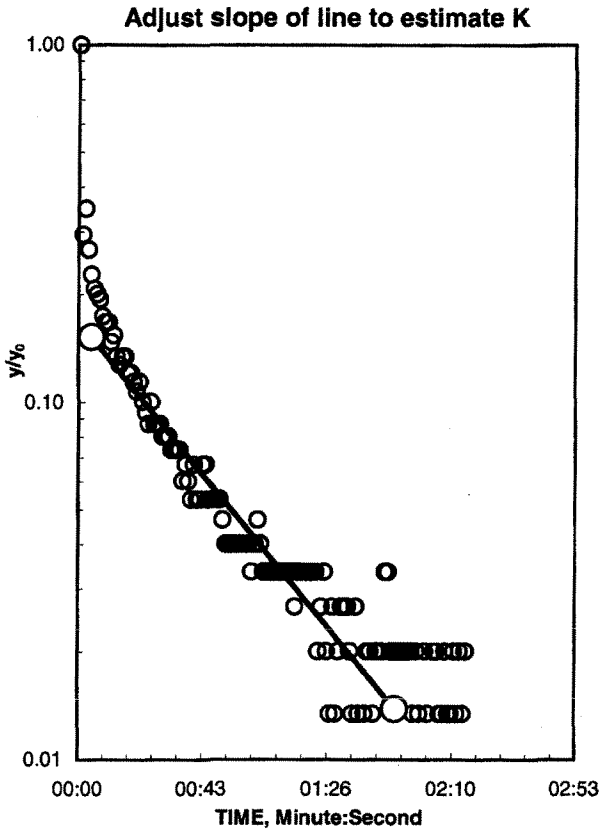
L_{wetted}	7.68 Feet
D =	7.68 Feet
H =	7.68 Feet
L/r_w =	22.34
$y_{0\text{-DISPLACEMENT}}$ =	1.49 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.817
ln(Re/rw) =	2.296
Re =	3.42 Feet
Slope =	0.009877 $\log_{10}$/sec
$t_{90\%}$ recovery =	101 sec

Input is consistent.

K = 2 Feet/Day



REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 5. Results of falling-head slug test for well MW13S.

MW13S Bouwer-Rice Falling.xls

WELL ID: MS-13S

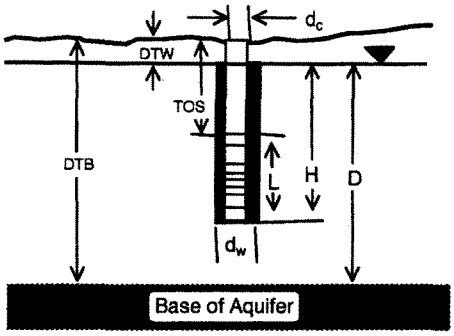
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.82 Feet
top of screen (TOS)	2.5 Feet
Base of Aquifer (DTB)	12.5 Feet
Annular Fill:	
across screen -- Medium Sand	
above screen -- Backfill	
Aquifer Material -- Surficial Aquifer, centr	



COMPUTED

L_{wetted}	7.68 Feet
D =	7.68 Feet
H =	7.68 Feet
L/r_w =	22.34
$y_{0\text{-DISPLACEMENT}}$ =	1.09 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

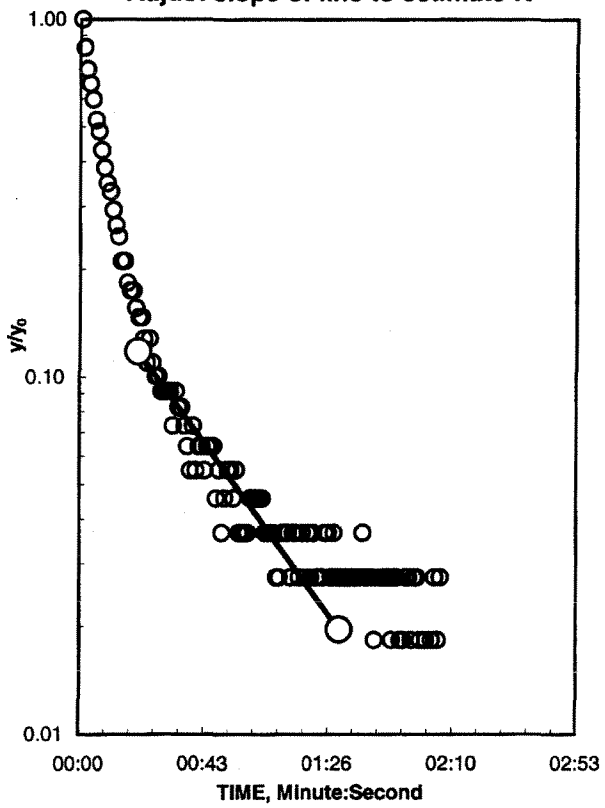
From look-up table using L/r_w

Fully penetrate C =	1.817
ln(Re/rw) =	2.296
Re =	3.42 Feet
Slope =	0.011145 $\log_{10}$/sec
$t_{90\%}$ recovery =	90 sec

Input is consistent.

K = 2 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 6. Results of rising-head slug test for well MW13S.

MW13S Bouwer-Rice Rising.xls

WELL ID: MS-13D

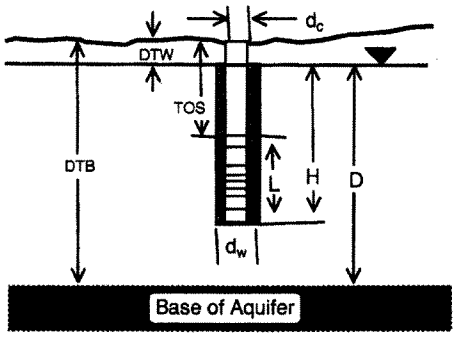
Local ID:

Date: 2/11/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	2.64 Feet
top of screen (TOS)	37 Feet
Base of Aquifer (DTB)	42 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centra



COMPUTED

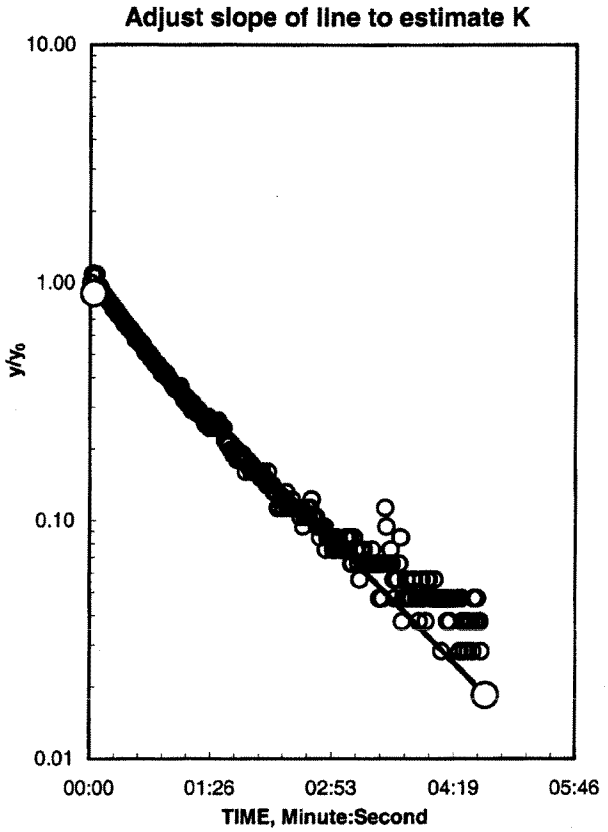
L_{wetted}	5 Feet
D =	39.36 Feet
H =	39.36 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.06 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.991
Re =	6.84 Feet
Slope =	0.006049 $\log_{10}$/sec
$t_{90\%}$ recovery =	165 sec

Input is consistent.

K = 2 Feet/Day



REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 7. Results of falling-head slug test for well MW13D.

MW13D Bouwer-Rice Falling.xls

WELL ID: MS-13D

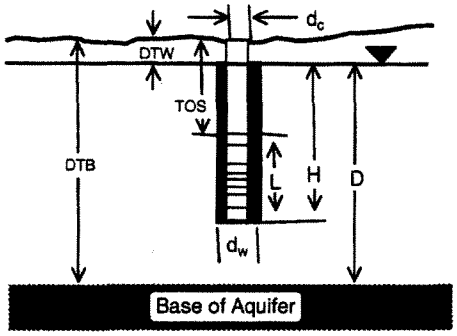
Local ID:

Date: 2/11/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	2.64 Feet
top of screen (TOS)	37 Feet
Base of Aquifer (DTB)	42 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centra



COMPUTED

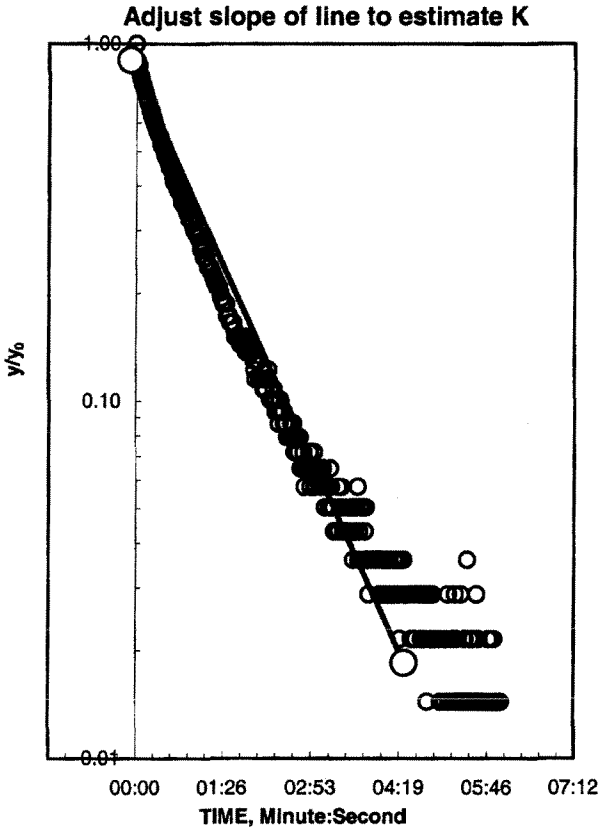
L_{wetted}	5 Feet
D =	39.36 Feet
H =	39.36 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.39 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.991
Re =	6.84 Feet
Slope =	0.006262 $\log_{10}$/sec
$t_{90\%}$ recovery =	160 sec

Input is consistent.

K =	3 Feet/Day



REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 8. Results of rising-head slug test for well MW13D.

WELL ID: MS-15S

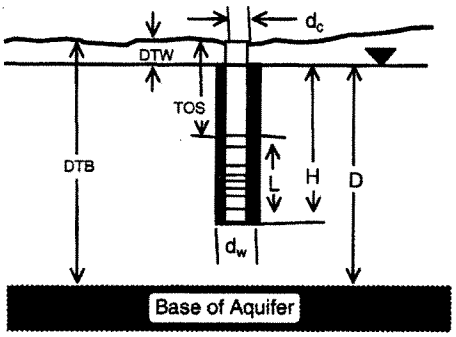
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.04 Feet
top of screen (TOS)	3 Feet
Base of Aquifer (DTB)	13 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centra



COMPUTED

L_{wetted}	8.96 Feet
D =	8.96 Feet
H =	8.96 Feet
L/r_w =	26.07
$y_{0\text{-DISPLACEMENT}}$ =	1.37 Feet
$y_{0\text{-SLUG}}$ =	1.47 Feet

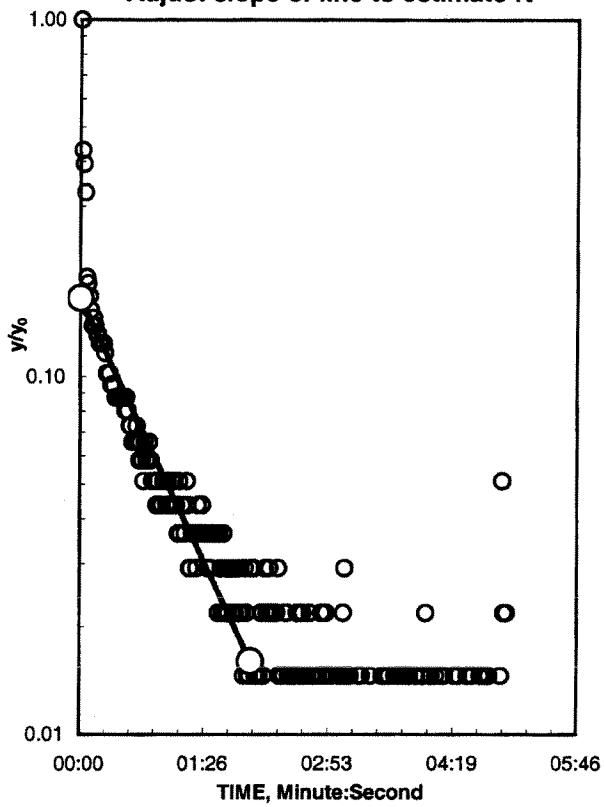
From look-up table using L/r_w

Fully penetrate C =	1.944
ln(Re/rw) =	2.428
Re =	3.89 Feet
Slope =	0.008521 $\log_{10}$/sec
$t_{90\%}$ recovery =	117 sec

Input is consistent.

K = 2 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

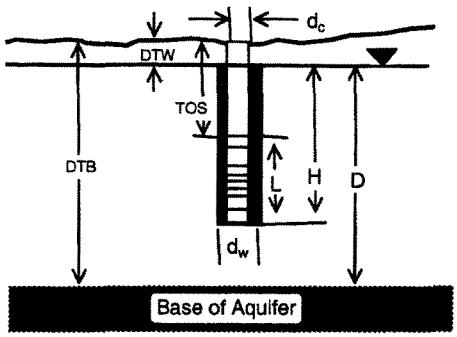
Figure 9. Results of falling-head slug test for well MW15S.

WELL ID: MS-15S

Local ID:
Date: 2/13/2003
Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.04 Feet
top of screen (TOS)	3 Feet
Base of Aquifer (DTB)	13 Feet
Annular Fill:	
across screen -- Medium Sand	
above screen -- Backfill	
Aquifer Material -- Surficial Aquifer, centr	



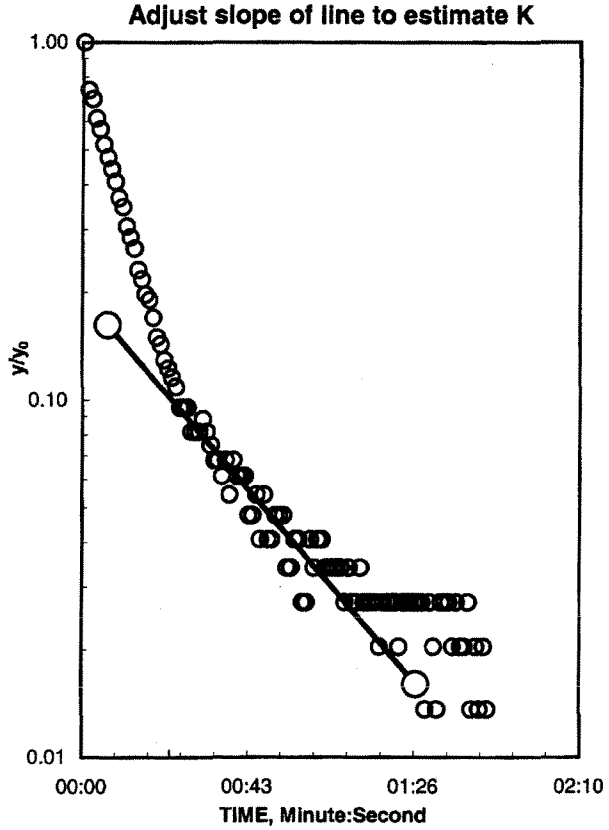
COMPUTED

L_{wetted}	8.96 Feet
D =	8.96 Feet
H =	8.96 Feet
L/r_w =	26.07
$y_{0\text{-DISPLACEMENT}}$ =	1.47 Feet
$y_{0\text{-SLUG}}$ =	1.47 Feet
From look-up table using L/r_w	
Fully penetrate C =	1.944
ln(Re/rw) =	2.428
Re =	3.89 Feet
Slope =	0.012507 $\log_{10}$/sec
$t_{90\%}$ recovery =	80 sec

Input is consistent.

K = 2 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 10. Results of rising-head slug test for well MW15S.

WELL ID: MS-15D

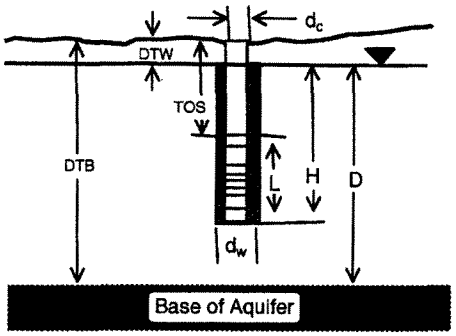
Local ID:

Date: 2/12/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	5.76 Feet
top of screen (TOS)	39 Feet
Base of Aquifer (DTB)	44 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centr

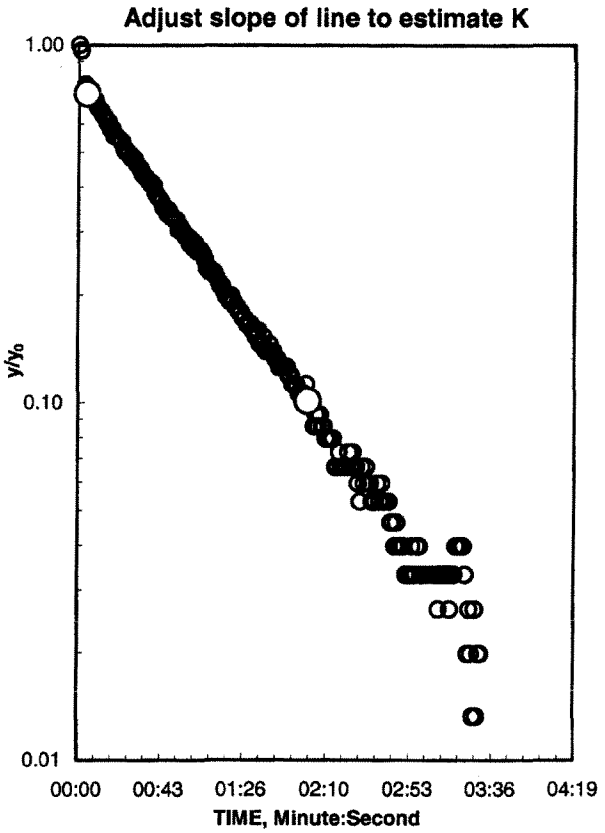


COMPUTED

L_{wetted}	5 Feet
D =	38.24 Feet
H =	38.24 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.51 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet
From look-up table using L/r_w	
Fully penetrate C =	1.488
ln(Re/rw) =	2.979
Re =	6.76 Feet
Slope =	0.007419 $\log_{10}$/sec
$t_{90\%}$ recovery =	135 sec

Input is consistent.

K = 3 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

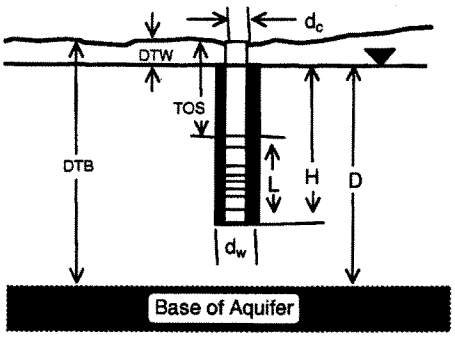
Figure 11. Results of falling-head slug test for well MW15D.

WELL ID: MS-15D

Local ID:
Date: 2/12/2003
Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	5.76 Feet
top of screen (TOS)	39 Feet
Base of Aquifer (DTB)	44 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centr



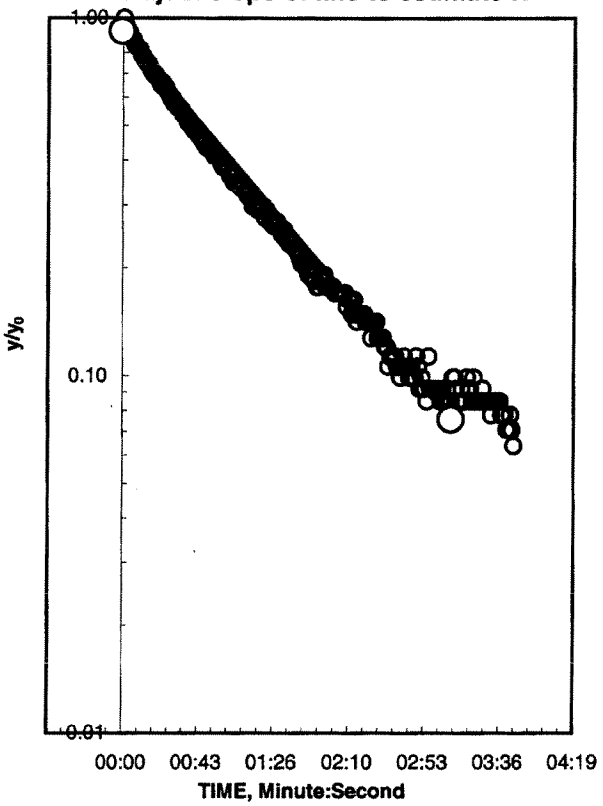
COMPUTED

L_{wetted}	5 Feet
D =	38.24 Feet
H =	38.24 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.41 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet
From look-up table using L/r_w	
Fully penetrate C =	1.488
ln(Re/rw) =	2.979
Re =	6.76 Feet
Slope =	0.005724 $\log_{10}$/sec
$t_{90\%}$ recovery =	175 sec

Input is consistent.

K =	2 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 12. Results of rising-head slug test for well MW15D.

WELL ID: MS-16S

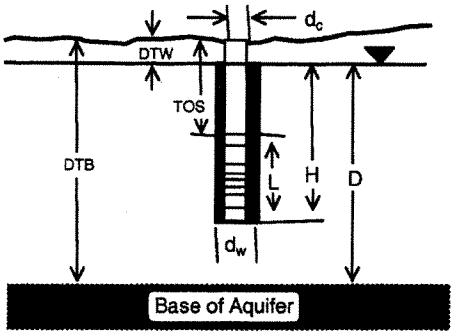
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	3.23 Feet
top of screen (TOS)	3 Feet
Base of Aquifer (DTB)	13 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centr



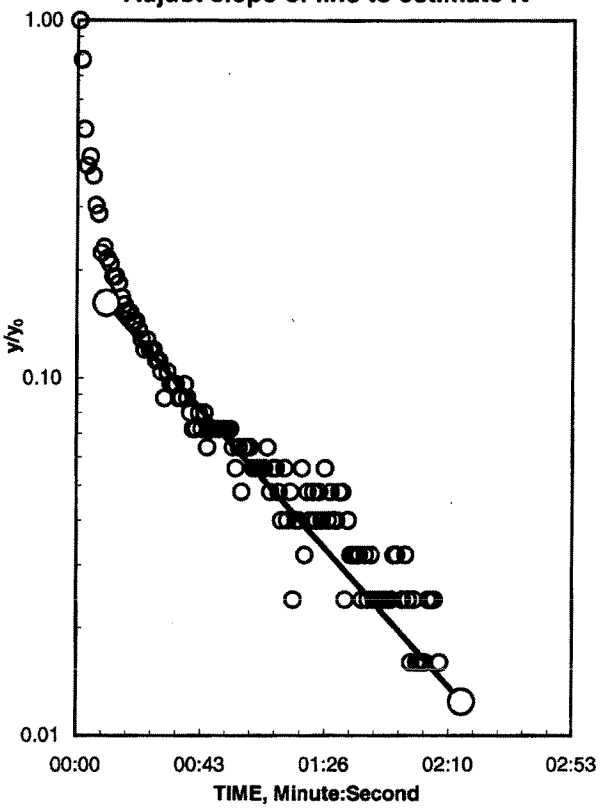
COMPUTED

L_{wetted}	9.77 Feet
D =	9.77 Feet
H =	9.77 Feet
L/r_w =	28.42
$y_{0\text{-DISPLACEMENT}}$ =	1.25 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet
From look-up table using L/r_w	
Fully penetrate C =	2.015
ln(Re/rw) =	2.503
Re =	4.20 Feet
Slope =	0.008993 $\log_{10}$/sec
$t_{90\%}$ recovery =	111 sec

Input is consistent.

K = 2 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 13. Results of falling-head slug test for well MW16S.

WELL ID: MS-16S

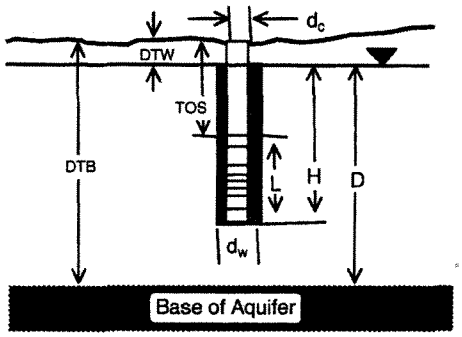
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	3.23 Feet
top of screen (TOS)	3 Feet
Base of Aquifer (DTB)	13 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centra



COMPUTED

L_{wetted}	9.77 Feet
D =	9.77 Feet
H =	9.77 Feet
L/r_w =	28.42
$y_{0\text{-DISPLACEMENT}}$ =	1.14 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

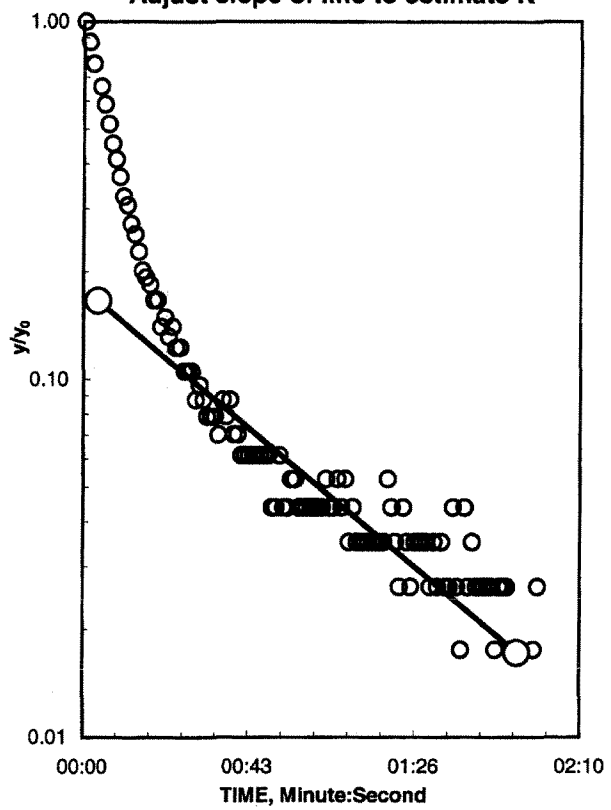
From look-up table using L/r_w

Fully penetrate C =	2.015
ln(Re/rw) =	2.503
Re =	4.20 Feet
Slope =	0.008996 $\log_{10}$/sec
$t_{90\%}$ recovery =	111 sec

Input is consistent.

K = 2 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 14. Results of rising-head slug test for well MW16S.

WELL ID: MS-16D

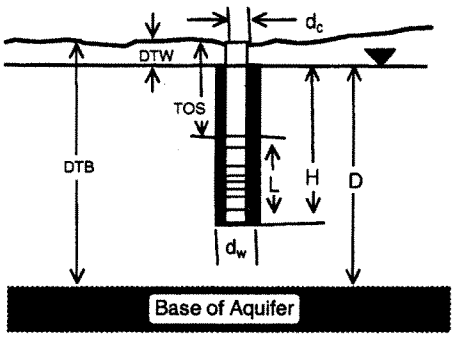
Local ID:

Date: 2/11/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	3.7 Feet
top of screen (TOS)	36.5 Feet
Base of Aquifer (DTB)	41.5 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

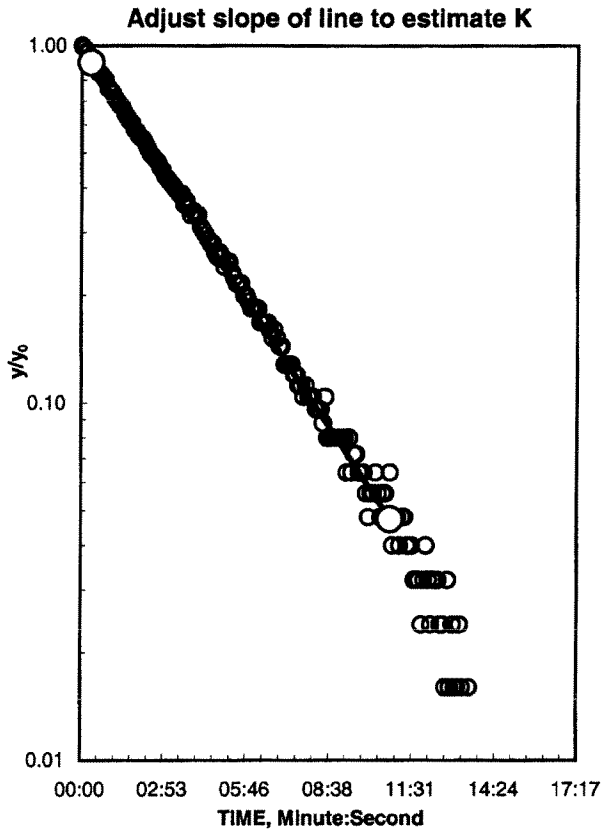
L_{wetted} =	5 Feet
D =	37.8 Feet
H =	37.8 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.25 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.973
Re =	6.72 Feet
Slope =	0.002043 $\log_{10}$/sec
$t_{90\%}$ recovery =	489 sec

Input is consistent.

K = 0.8 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 15. Results of falling-head slug test for well MW16D.

MW16D Bouwer-Rice Falling.xls

WELL ID: MS-16D

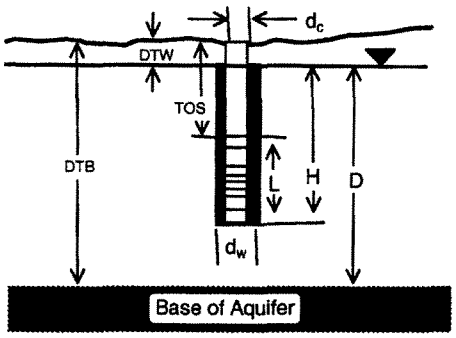
Local ID:

Date: 2/11/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	3.7 Feet
top of screen (TOS)	36.5 Feet
Base of Aquifer (DTB)	41.5 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

L_{wetted}	5 Feet
D =	37.8 Feet
H =	37.8 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.35 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

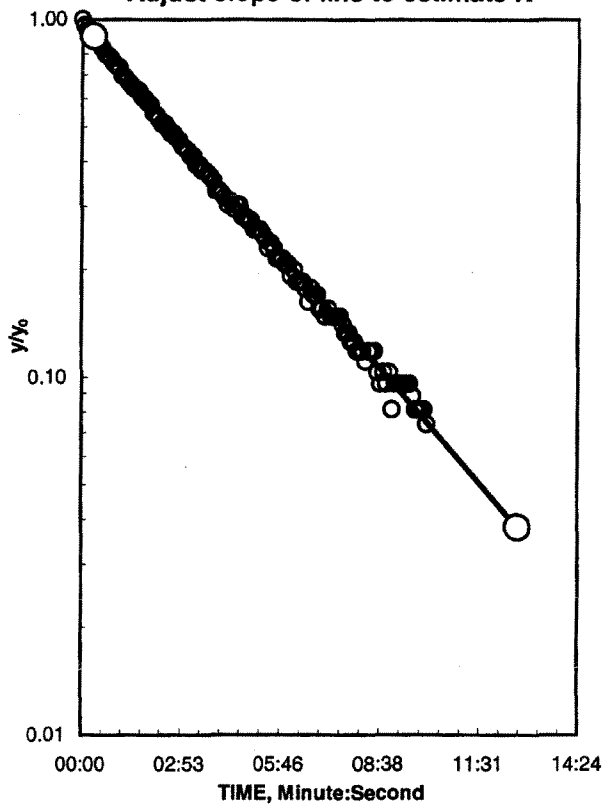
From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.973
Re =	6.72 Feet
Slope =	0.001857 $\log_{10}$/sec
$t_{90\%}$ recovery =	538 sec

Input is consistent.

K = 0.8 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 16. Results of rising-head slug test for well MW16D.

WELL ID: MS-17S

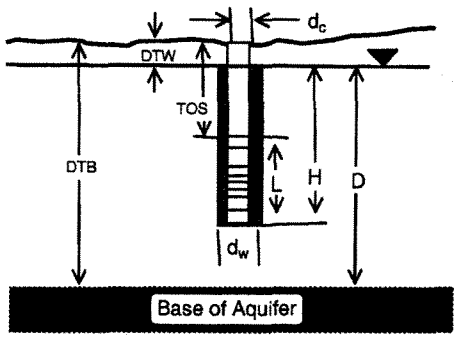
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	2.08 Feet
top of screen (TOS)	2.5 Feet
Base of Aquifer (DTB)	12.5 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

L_{wetted}	10 Feet
D =	10.42 Feet
H =	10.42 Feet
L/r_w =	29.09
$y_{0\text{-DISPLACEMENT}}$ =	1.35 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

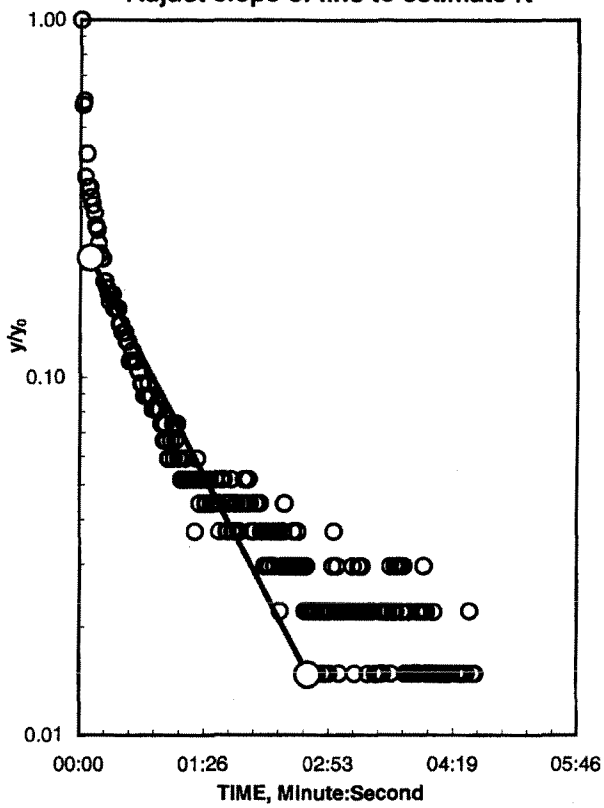
From look-up table using L/r_w

Fully penetrate C =	2.041
ln(Re/rw) =	2.547
Re =	4.39 Feet
Slope =	0.007674 $\log_{10}$/sec
$t_{90\%}$ recovery =	130 sec

Input is consistent.

K =	1 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 17. Results of falling-head slug test for well MW17S.

MW17S Bouwer-Rice Falling.xls

WELL ID: MS-17S

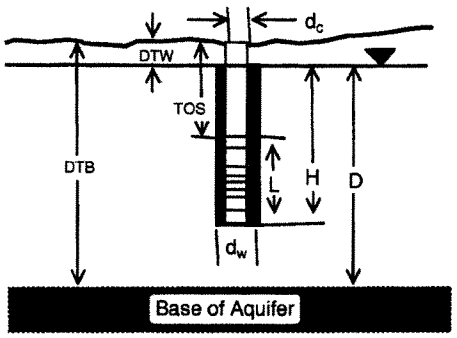
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	2.08 Feet
top of screen (TOS)	2.5 Feet
Base of Aquifer (DTB)	12.5 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

L_{wetted} =	10 Feet
D =	10.42 Feet
H =	10.42 Feet
L/r_w =	29.09
$y_{0\text{-DISPLACEMENT}}$ =	1.22 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

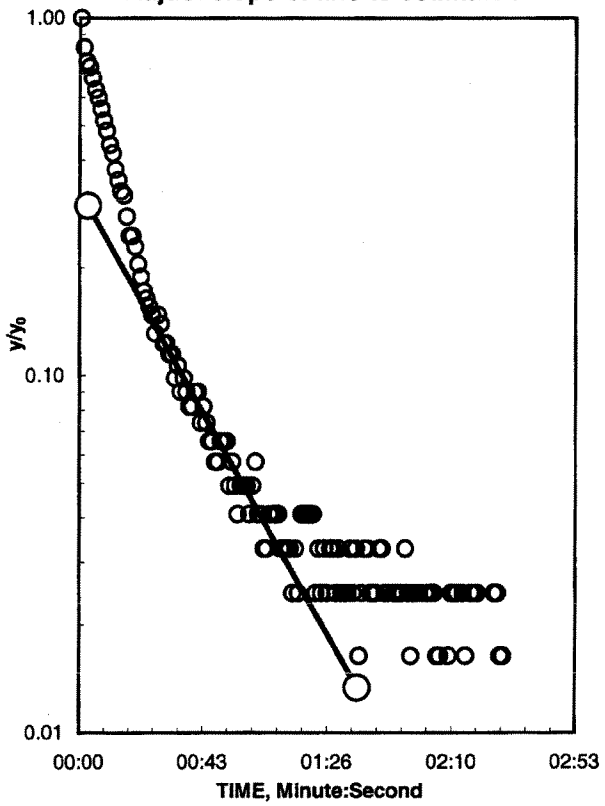
From look-up table using L/r_w

Fully penetrate C =	2.041
ln(Re/rw) =	2.547
Re =	4.39 Feet
Slope =	0.014361 $\log_{10}$/sec
$t_{90\%}$ recovery =	70 sec

Input is consistent.

K = 3 Feet/Day

Adjust slope of line to estimate K



REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 18. Results of rising-head slug test for well MW17S.

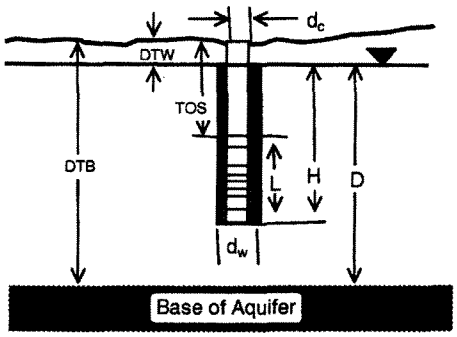
MW17S Bouwer-Rice Rising.xls

WELL ID: MS-17D

Local ID:
Date: 2/11/2003
Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	2.64 Feet
top of screen (TOS)	37 Feet
Base of Aquifer (DTB)	42 Feet
Annular Fill:	
across screen -- Medium Sand	
above screen -- Bentonite	
Aquifer Material -- Surficial Aquifer, centr	

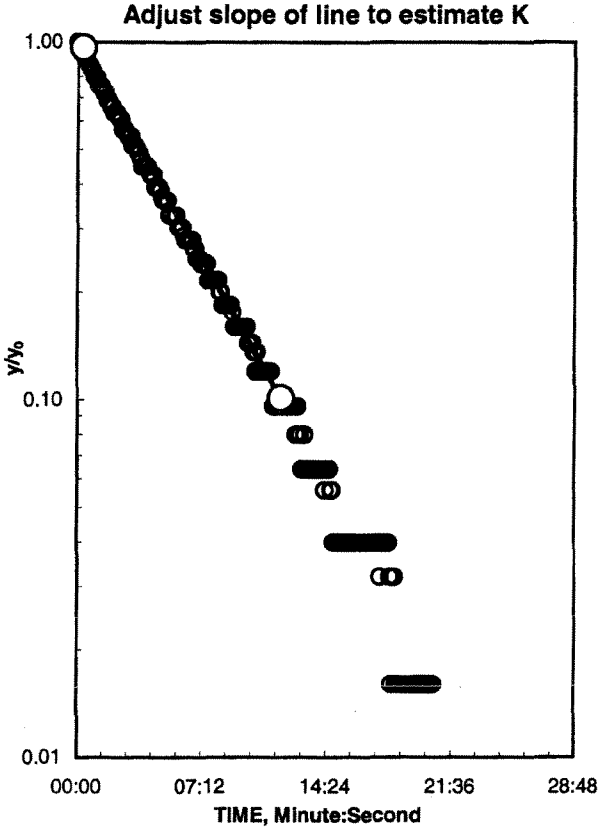


COMPUTED

L_{wetted}	5 Feet
D =	39.36 Feet
H =	39.36 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.25 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet
From look-up table using L/r_w	
Fully penetrate C =	1.488
ln(Re/rw) =	2.991
Re =	6.84 Feet
Slope =	0.001423 $\log_{10}$/sec
$t_{90\%}$ recovery =	702 sec

Input is consistent.

K = 0.6 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

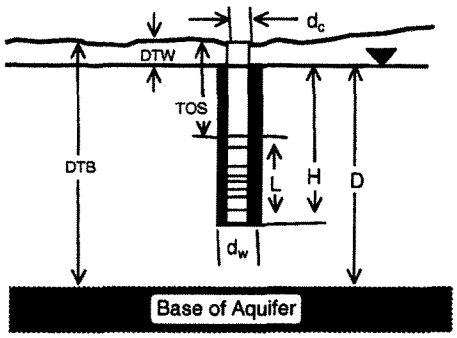
Figure 19. Results of falling-head slug test for well MW17D.

WELL ID: MS-17D

Local ID:
Date: 2/11/2003
Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	2.64 Feet
top of screen (TOS)	37 Feet
Base of Aquifer (DTB)	42 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

L_{wetted}	5 Feet
D =	39.36 Feet
H =	39.36 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.33 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

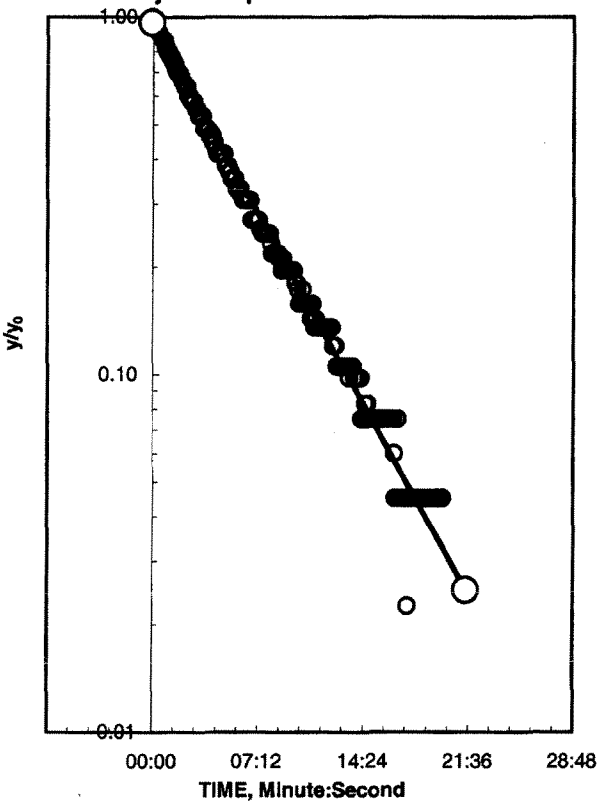
From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.991
Re =	6.84 Feet
Slope =	0.001234 $\log_{10}$/sec
$t_{90\%}$ recovery =	811 sec

Input is consistent.

K = 0.5 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 20. Results of rising-head slug test for well MW17D.

WELL ID: MS-18S

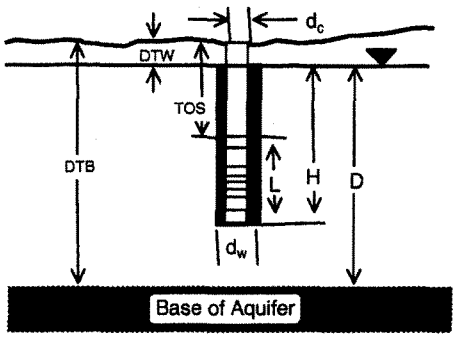
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.16 Feet
top of screen (TOS)	4 Feet
Base of Aquifer (DTB)	14 Feet
Annular Fill:	
across screen -- Medium Sand	
above screen -- Backfill	
Aquifer Material -- Surficial Aquifer, centr	



COMPUTED

L_{wetted}	9.84 Feet
D =	9.84 Feet
H =	9.84 Feet
L/r_w =	28.63
$y_{0\text{-DISPLACEMENT}}$ =	1.12 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

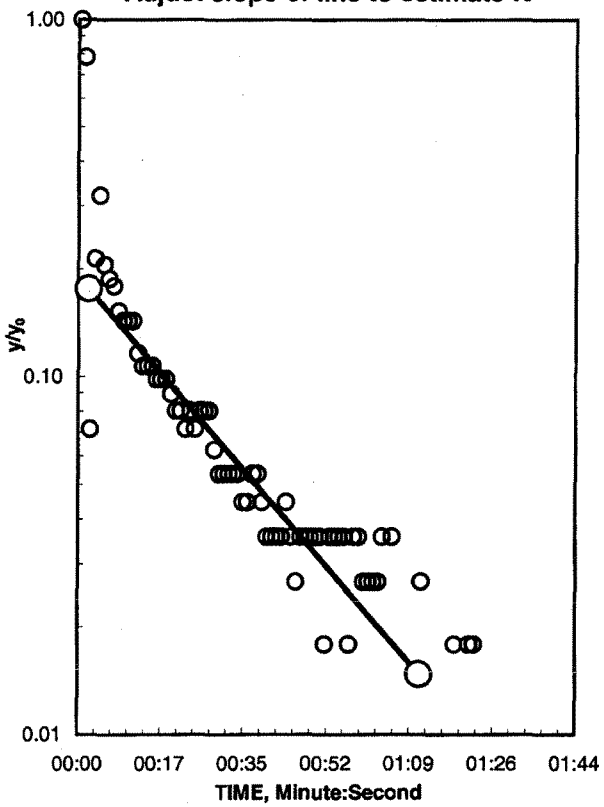
From look-up table using L/r_w

Fully penetrate C =	2.021
ln(Re/rw) =	2.509
Re =	4.23 Feet
Slope =	0.015635 $\log_{10}$/sec
$t_{90\%}$ recovery =	64 sec

Input is consistent.

K = 3 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 21. Results of falling-head slug test for well MW18S.

MW18S Bouwer-Rice Falling.xls

WELL ID: MS-18S

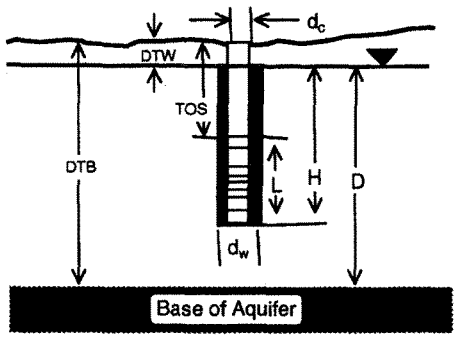
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.16 Feet
top of screen (TOS)	4 Feet
Base of Aquifer (DTB)	14 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

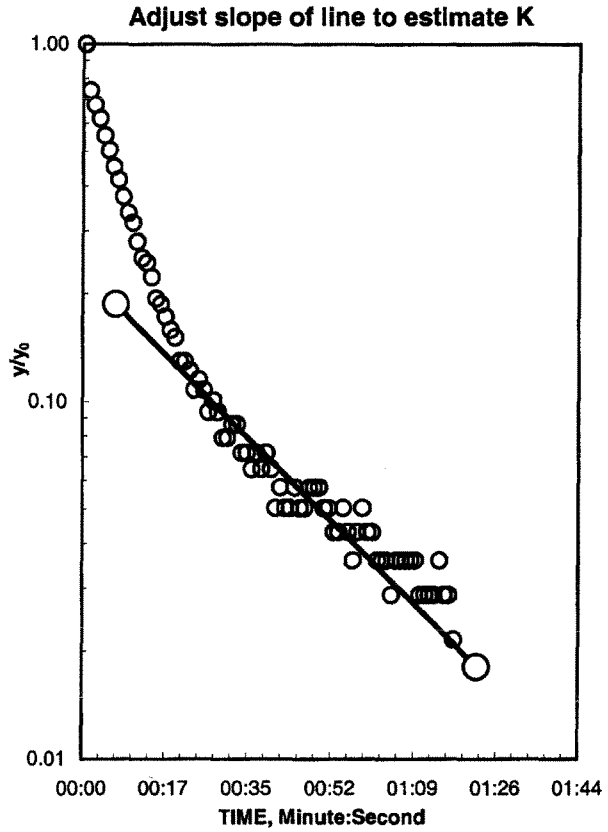
L_{wetted}	9.84 Feet
D =	9.84 Feet
H =	9.84 Feet
L/r_w =	28.63
$y_{0\text{-DISPLACEMENT}}$ =	1.39 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	2.021
ln(Re/rw) =	2.509
Re =	4.23 Feet
Slope =	0.013441 $\log_{10}$/sec
$t_{90\%}$ recovery =	74 sec

Input is consistent.

K = 2 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 22. Results of rising-head slug test for well MW18S.

MW18S Bouwer-Rice Rising.xls

WELL ID: MS-18D

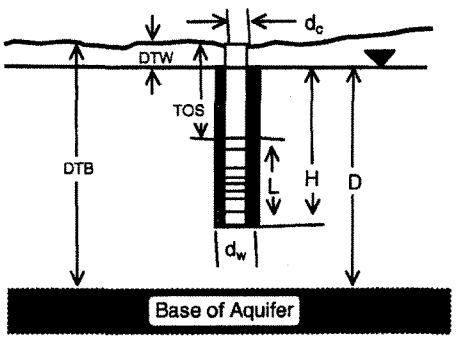
Local ID:

Date: 2/12/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	4.63 Feet
top of screen (TOS)	39 Feet
Base of Aquifer (DTB)	44 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

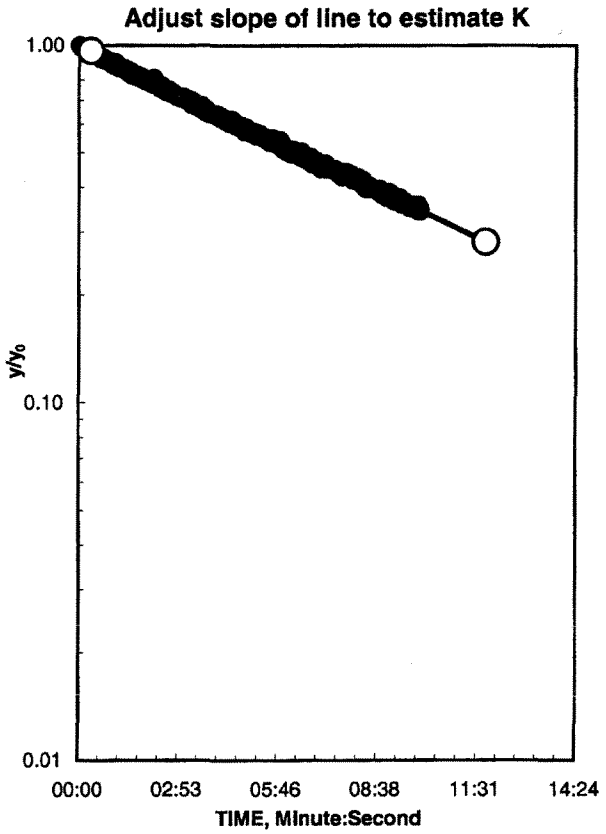
L_{wetted}	5 Feet
D =	39.37 Feet
H =	39.37 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.31 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.991
Re =	6.84 Feet
Slope =	0.000776 $\log_{10}$/sec
$t_{90\%}$ recovery =	1288 sec

Input is consistent.

K = 0.3 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 23. Results of falling-head slug test for well MW18D.

WELL ID: MS-18D

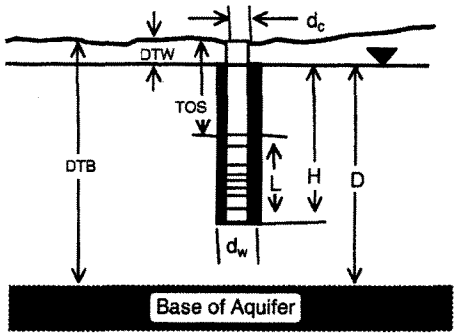
Local ID:

Date: 2/12/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	4.63 Feet
top of screen (TOS)	39 Feet
Base of Aquifer (DTB)	44 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centra

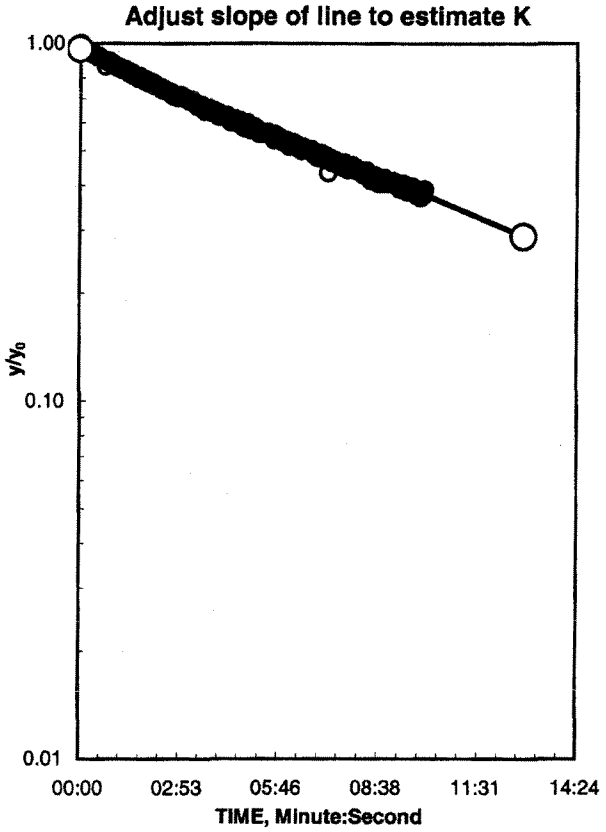


COMPUTED

L_{wetted}	5 Feet
D =	39.37 Feet
H =	39.37 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.38 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet
From look-up table using L/r_w	
Fully penetrate C =	1.488
ln(Re/rw) =	2.991
Re =	6.84 Feet
Slope =	0.000679 $\log_{10}$/sec
$t_{90\%}$ recovery =	1474 sec

Input is consistent.

K = 0.3 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 24. Results of rising-head slug test for well MW18D.

WELL ID: MS-19S

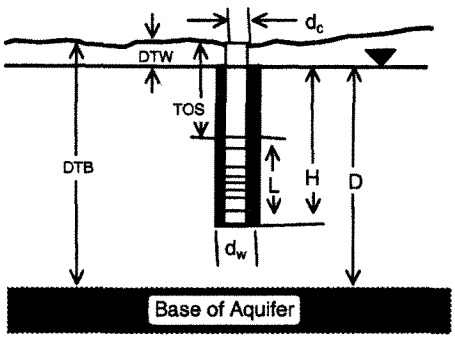
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	1.83 Feet
top of screen (TOS)	2.5 Feet
Base of Aquifer (DTB)	12.5 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

L_{wetted}	10 Feet
D =	10.67 Feet
H =	10.67 Feet
L/r_w =	29.09
$y_{0\text{-DISPLACEMENT}}$ =	1.26 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

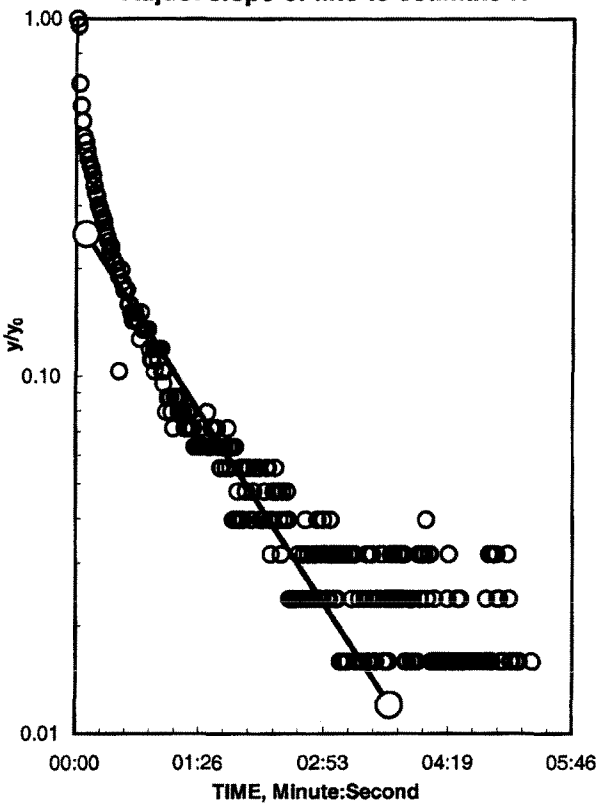
From look-up table using L/r_w

Fully penetrate C =	2.041
ln(Re/rw) =	2.562
Re =	4.45 Feet
Slope =	0.006231 $\log_{10}$/sec
$t_{90\%}$ recovery =	160 sec

Input is consistent.

K = 1 Feet/Day

Adjust slope of line to estimate K



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 25. Results of falling-head slug test for well MW19S.

MW19S Bouwer-Rice Falling.xls

WELL ID: MS-19S

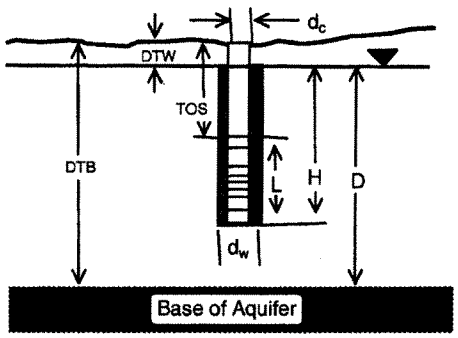
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	1.83 Feet
top of screen (TOS)	2.5 Feet
Base of Aquifer (DTB)	12.5 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centra



COMPUTED

L_{wetted}	10 Feet
D =	10.67 Feet
H =	10.67 Feet
L/r_w =	29.09
$y_{0\text{-DISPLACEMENT}}$ =	0.88 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

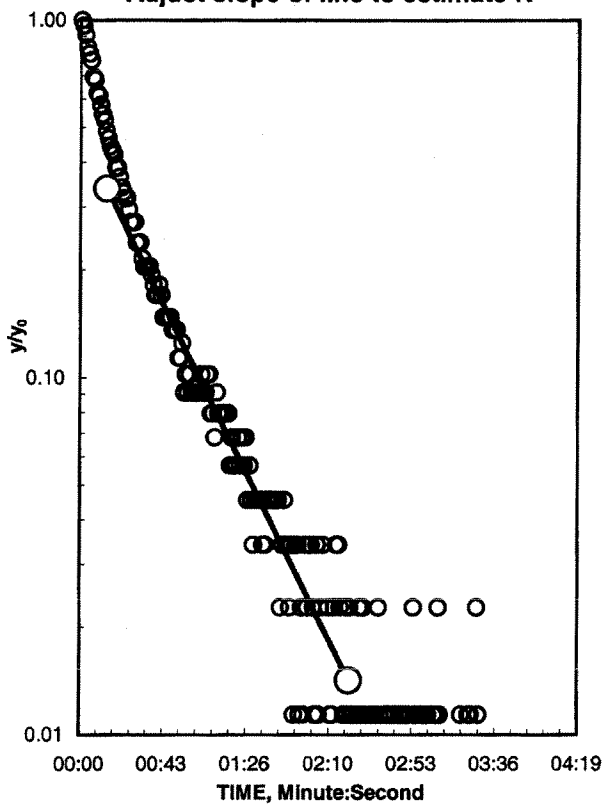
From look-up table using L/r_w

Fully penetrate C =	2.041
ln(Re/rw) =	2.562
Re =	4.45 Feet
Slope =	0.010916 $\log_{10}$/sec
$t_{90\%}$ recovery =	92 sec

Slug discrepancy of 36% is greater than maximum of 20%

K = Error Feet/Day

Adjust slope of line to estimate K



REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 26. Results of rising-head slug test for well MW19S.

MW19S Bouwer-Rice Rising.xls

WELL ID: MW-20I

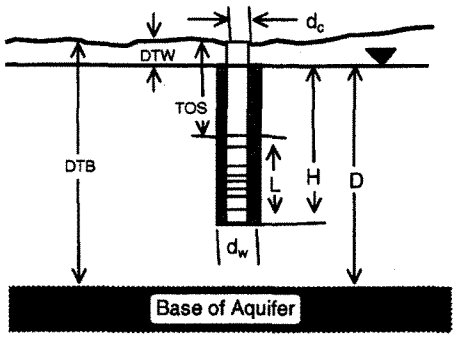
Local ID:

Date: 2/12/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	2.83 Feet
top of screen (TOS)	20 Feet
Base of Aquifer (DTB)	25 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centre



COMPUTED

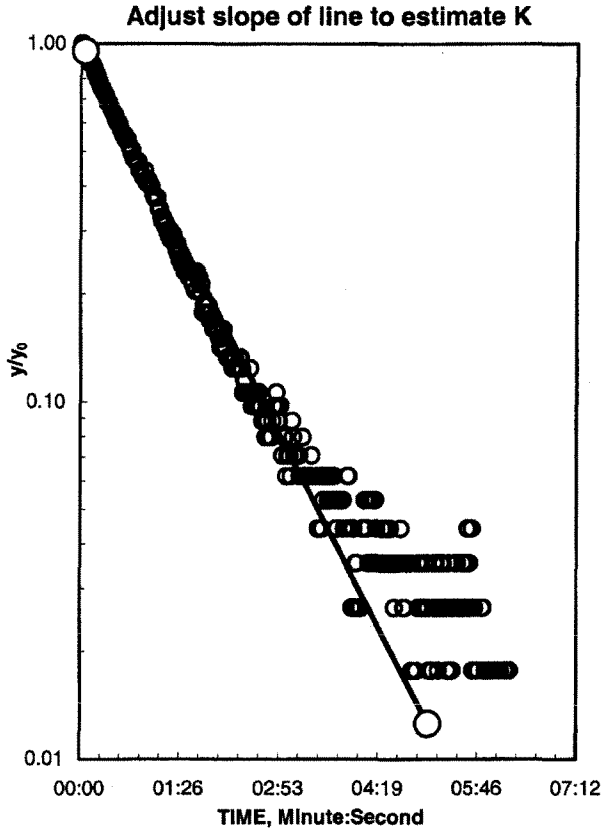
L_{wetted}	5 Feet
D =	22.17 Feet
H =	22.17 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.13 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.730
Re =	5.27 Feet
Slope =	0.006289 $\log_{10}$/sec
$t_{90\%}$ recovery =	159 sec

Input is consistent.

K = 2 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 27. Results of falling-head slug test for well MW20I.

WELL ID: MW-20I

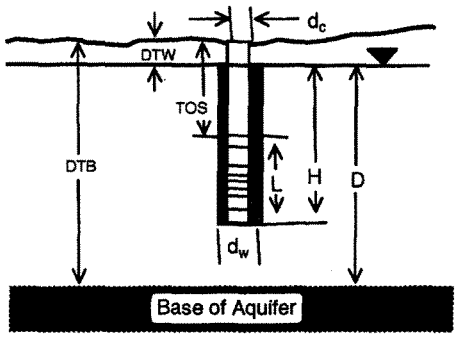
Local ID:

Date: 2/12/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	2.83 Feet
top of screen (TOS)	20 Feet
Base of Aquifer (DTB)	25 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Bentonite
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

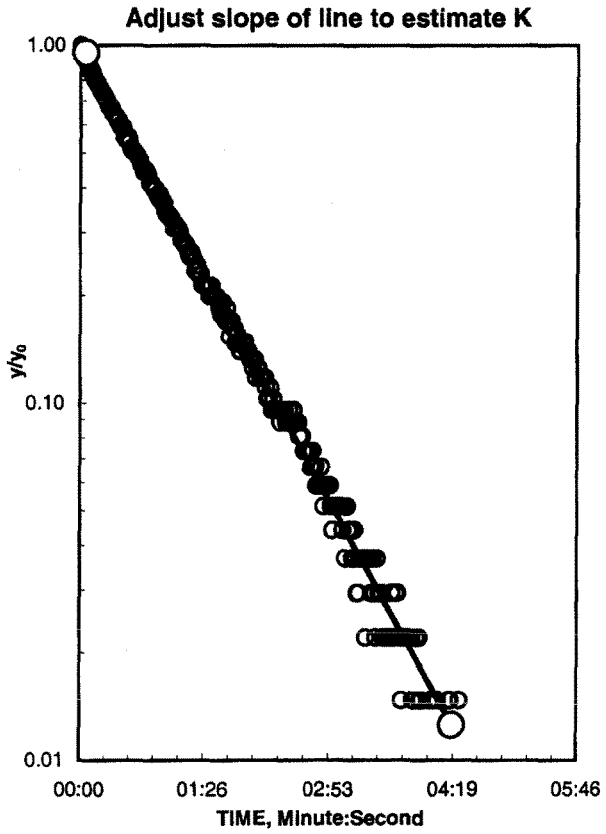
L_{wetted}	5 Feet
D =	22.17 Feet
H =	22.17 Feet
L/r_w =	14.55
$y_{0\text{-DISPLACEMENT}}$ =	1.36 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	1.488
ln(Re/rw) =	2.730
Re =	5.27 Feet
Slope =	0.007376 $\log_{10}$/sec
$t_{90\%}$ recovery =	136 sec

Input is consistent.

K = 3 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Rising head test.

Figure 28. Results of rising-head slug test for well MW20I.

WELL ID: MS-23

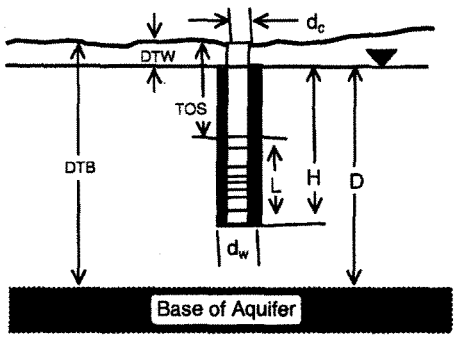
Local ID:

Date: 2/13/2003

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	3.67 Feet
top of screen (TOS)	5 Feet
Base of Aquifer (DTB)	15 Feet
Annular Fill:	
across screen --	Medium Sand
above screen --	Backfill
Aquifer Material --	Surficial Aquifer, centr



COMPUTED

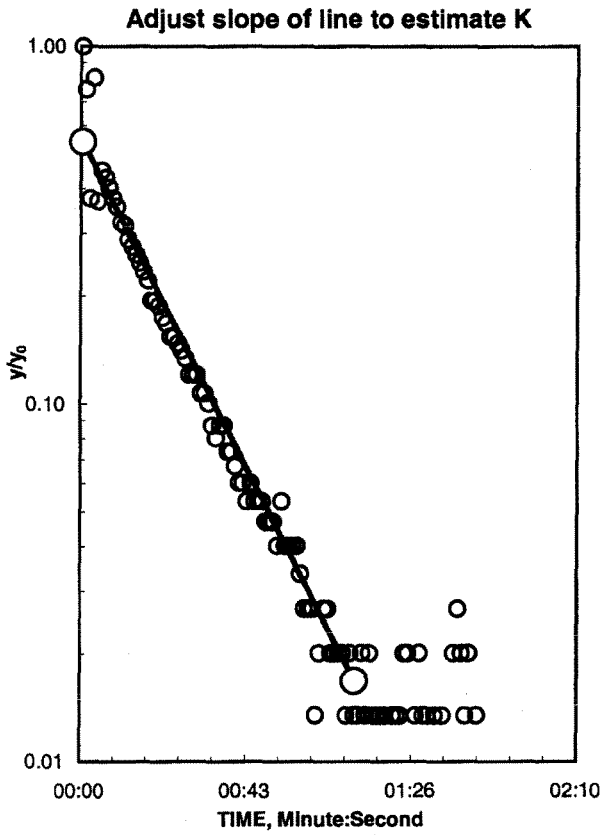
L_{wetted}	10 Feet
D =	11.33 Feet
H =	11.33 Feet
L/r_w =	29.09
$y_{0\text{-DISPLACEMENT}}$ =	1.49 Feet
$y_{0\text{-SLUG}}$ =	1.27 Feet

From look-up table using L/r_w

Fully penetrate C =	2.041
ln(Re/rw) =	2.598
Re =	4.62 Feet
Slope =	0.021207 $\log_{10}$/sec
$t_{90\%}$ recovery =	47 sec

Input is consistent.

K = 4 Feet/Day



REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Falling head test.

Figure 29. Results of falling-head slug test for well MW23S.

APPENDIX C

ILLUSTRATIONS FROM HISTORICAL DOCUMENTS SHOWING ANALYTICAL RESULTS AND REMEDIAL ACTIONS PRIOR TO RI

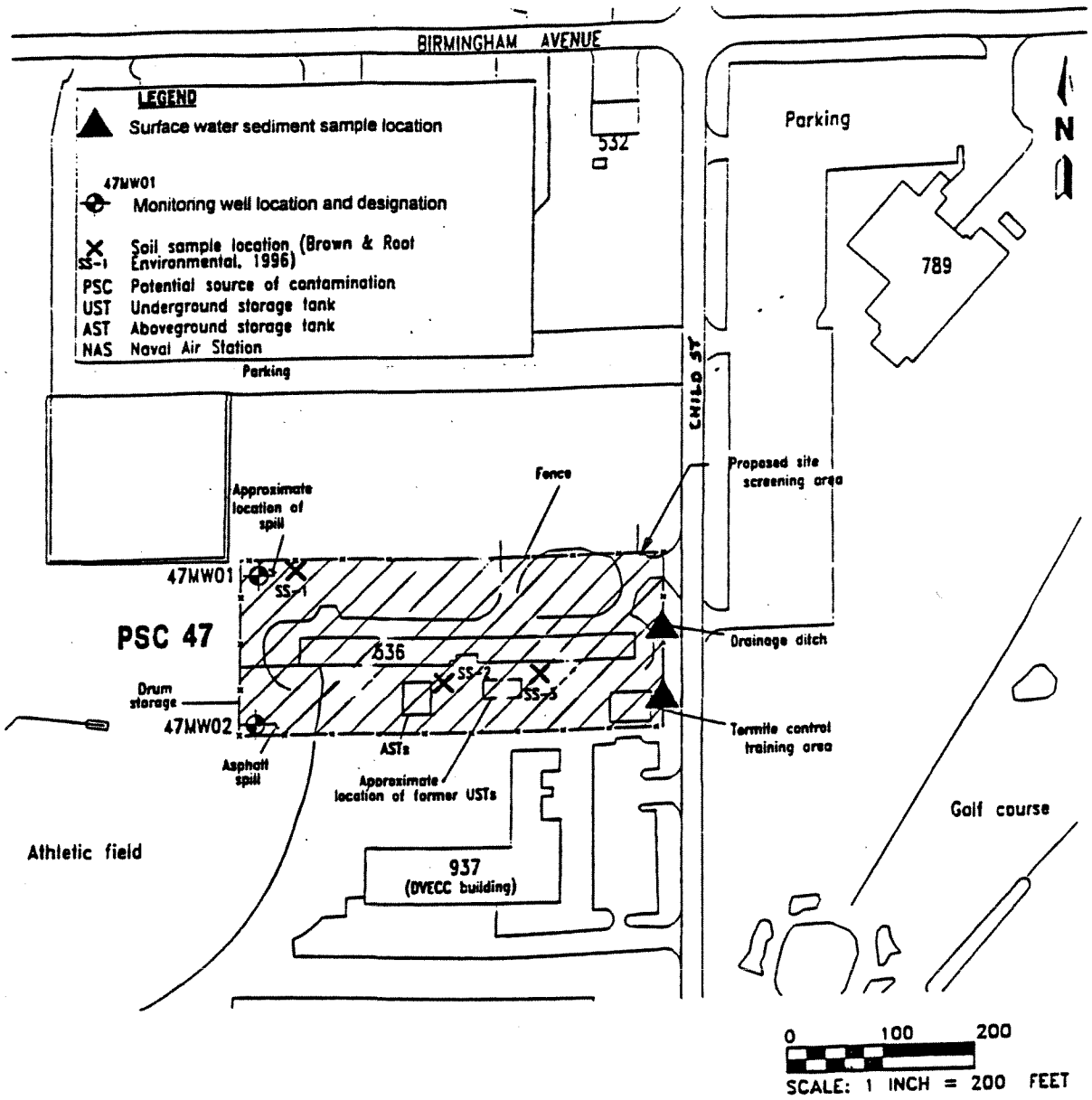
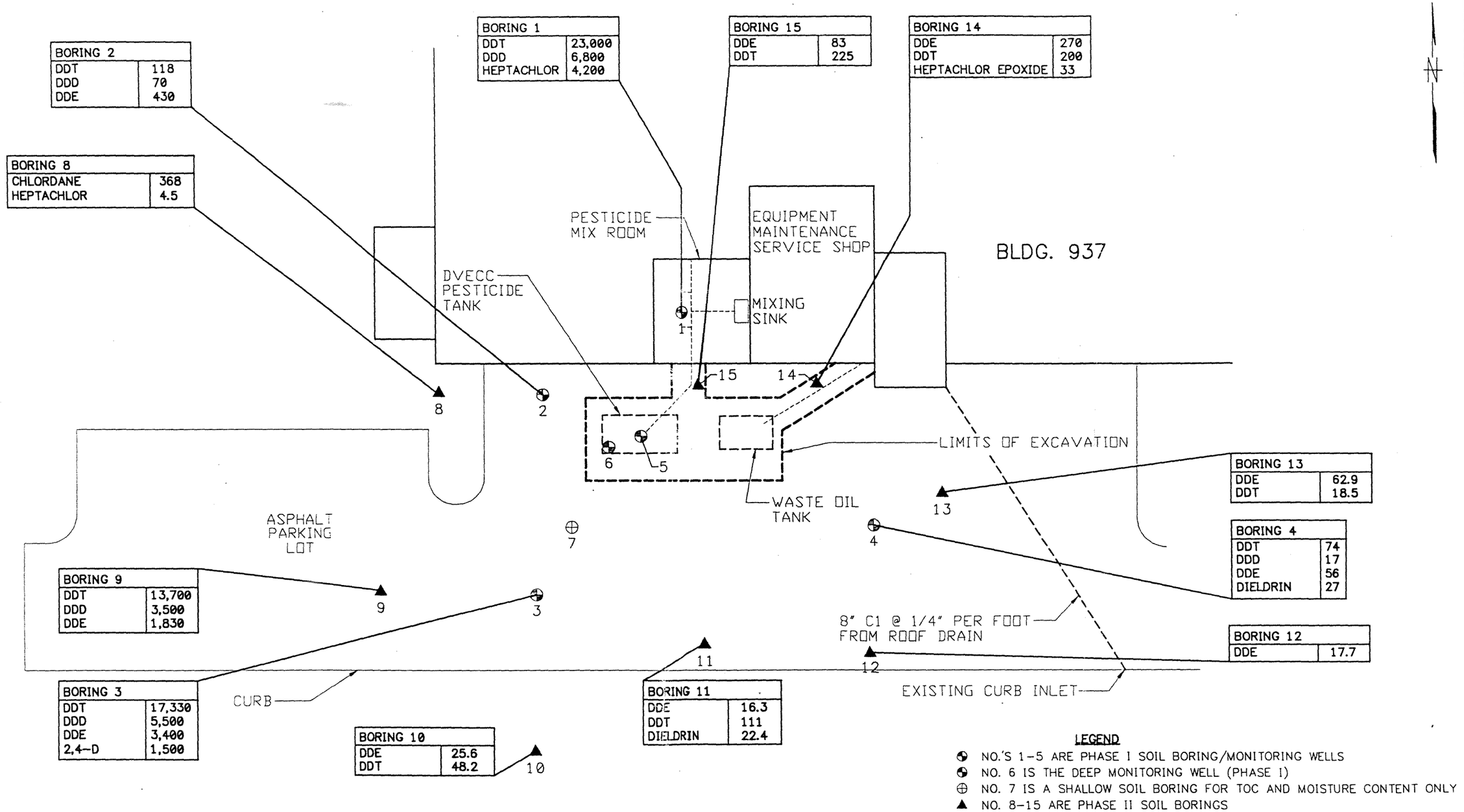


Figure modified from Fig. 4-16, *Site Screening Work Plan, Sampling and Analysis Plan for Potential Sources of Contamination, Naval Air Station Jacksonville, Jacksonville, FL*, ABB-ES, July 1997.

COMPLETION REPORT
PSC 47
NAS JACKSONVILLE, FL

LOCATION OF PSC 47
FIGURE 1-1

ACAD: K:\CAD\Z341\Z341GY05.DWG 01/13/97 TAD



NAS JACKSONVILLE
DVECC BUILDING 937 SITE
JACKSONVILLE, FLORIDA

Brown & Root Environmental

NOTES:

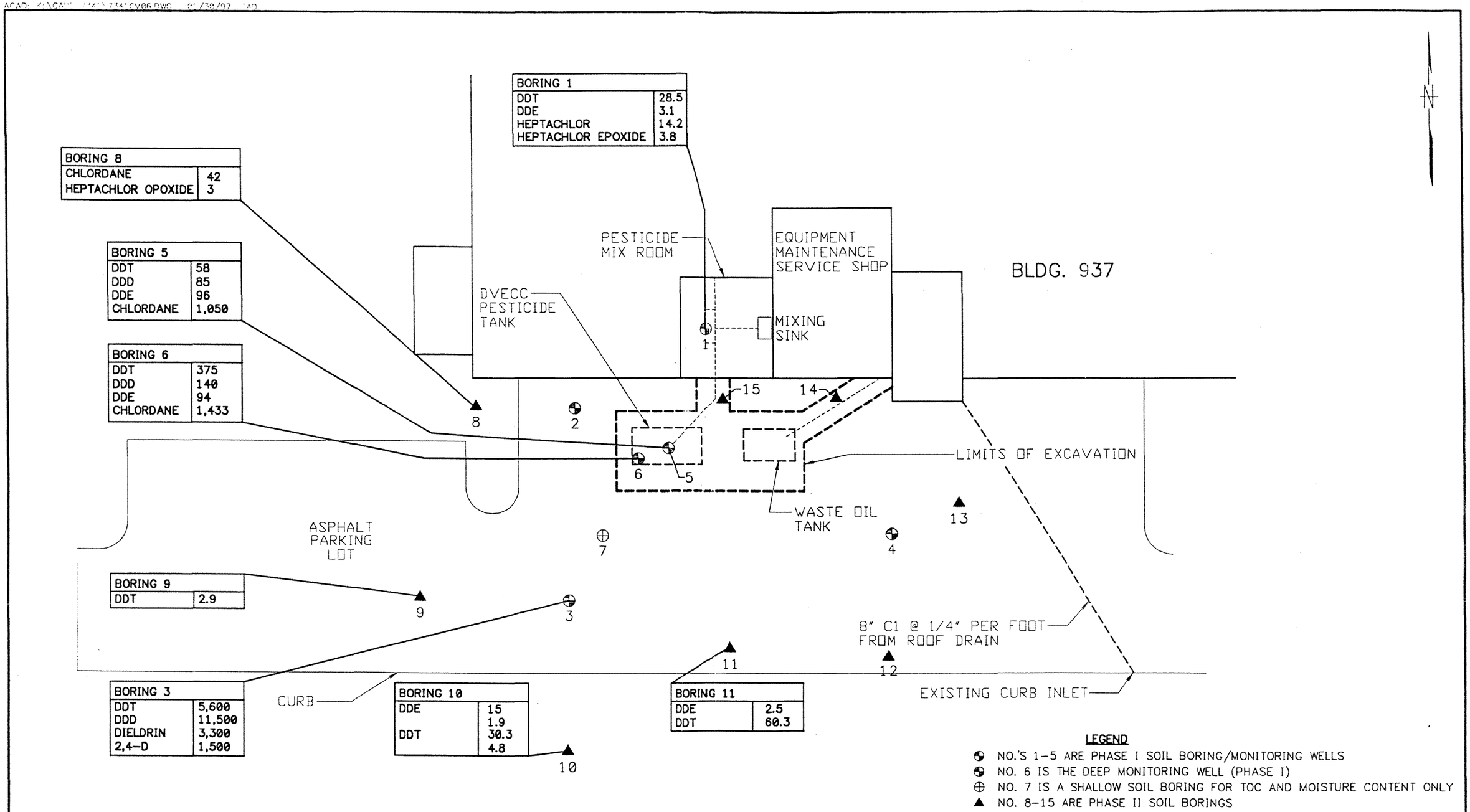
PHASE 1 INCLUDED BORINGS 1 THROUGH 7
PHASE 2 INCLUDED BORINGS 8 THROUGH 15

0 20 40
SCALE IN FEET

FIGURE 4-1

SOIL CONCENTRATION (µg/kg) MAP
1 F00T +/- BGS

ACAD: K:\CAD\ (41)\7341CV86.DWG 8/30/97 CAD



LEGEND

- NO.'S 1-5 ARE PHASE I SOIL BORING/MONITORING WELLS
- NO. 6 IS THE DEEP MONITORING WELL (PHASE I)
- NO. 7 IS A SHALLOW SOIL BORING FOR TOC AND MOISTURE CONTENT ONLY
- NO. 8-15 ARE PHASE II SOIL BORINGS

NAS JACKSONVILLE
DVECC BUILDING 937 SITE
JACKSONVILLE, FLORIDA

Brown & Root Environmental

NOTES:

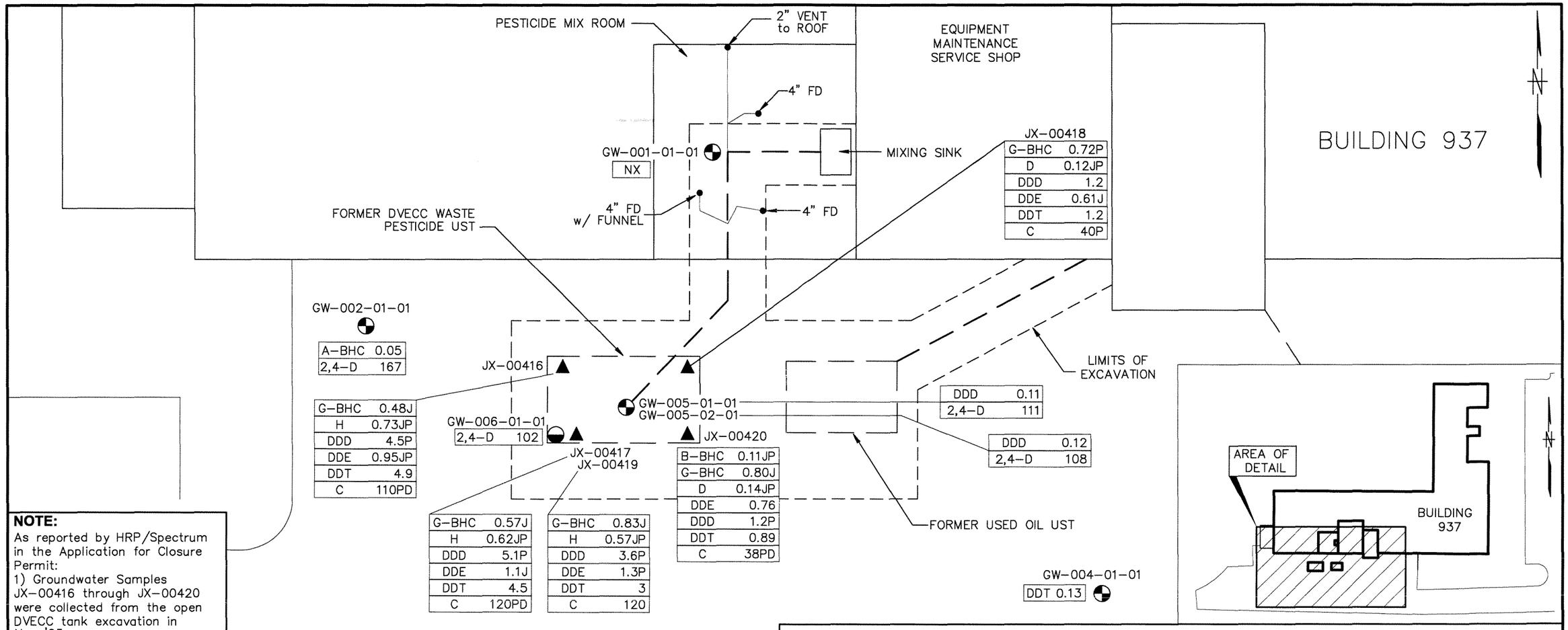
PHASE 1 INCLUDED BORINGS 1 THROUGH 7
PHASE 2 INCLUDED BORINGS 8 THROUGH 15

FIGURE 4-2

SOIL CONCENTRATION (µg/kg) MAP
3 FEET +/- BGS

Rev. 1
06/22/01

S:\NAVY\SITES\CTO 134\CAD\0523GC01



NOTE:

As reported by HRP/Spectrum in the Application for Closure Permit:

1) Groundwater Samples JX-00416 through JX-00420 were collected from the open DVECC tank excavation in Nov '95.

2) Groundwater Samples GW-001-01-01 through GW-006-01-01 were collected from wells MW-1 through MW-6, respectively, in Dec '96.

3). Original version of this figure (Rev. 0) was produced 5/19/00 for inclusion in RI/FS Work Plan. This version (Rev. 1) was created to show minor changes to originally presented data

LEGEND

- Shallow Monitoring Well
- Deep Monitoring Well
- Approximate Location of Groundwater Grab Sample Collected 10/25/95

JX00416
GW-005-01-01 = Groundwater Sample Identifiers

Constituent ID / Concentration (µg/L)

DDD	0.12
2,4-D	108

NX = No Exceedances Reported
J = Estimated Value
P = Uncertainty Near Detection Limits
D = MS/MSD Noncompliance
(µg/L) = Micrograms per Liter

CONSTITUENT	CONSTITUENT ABBREVIATION	FDEP GCTL
HEXACHLOROCYCLOHEXANE	BHC	N/A
ALPHA BHC	A-BHC	.006
DELTA BHC	D-BHC	2.1
GAMMA BHC	G-BHC	0.2
HEPTACHLOR	H	0.4
DIELDRIN	D	.005
4,4'-DDD	DDD	0.1
4,4'-DDE	DDE	0.1
4,4'-DDT	DDT	0.1
CHLORDANE	C	2.0
2,4-DICHLOROPHENOXY ACETIC ACID	2,4-D	70

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

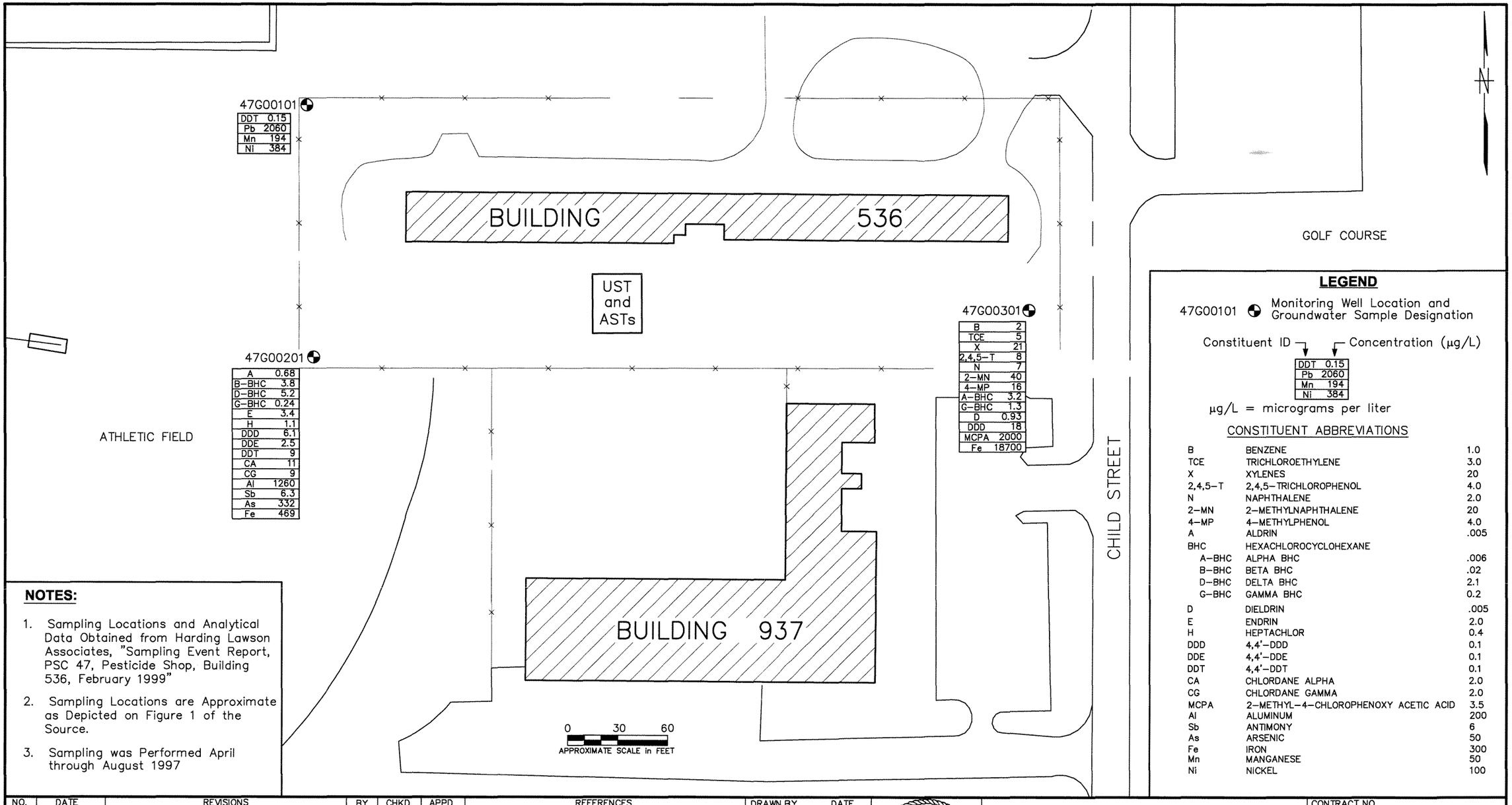
DRAWN BY LLK DATE 8/15/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

HISTORICAL GROUNDWATER ANALYTICAL RESULTS
EXCEEDING CURRENT FDEP GCTLs
PSC 47 - BUILDING 937
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. 0523
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2-8
REV. 1

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

S:\NAVY\SITES\CTO 134\CAD\0523gc02



NOTES:

1. Sampling Locations and Analytical Data Obtained from Harding Lawson Associates, "Sampling Event Report, PSC 47, Pesticide Shop, Building 536, February 1999"
2. Sampling Locations are Approximate as Depicted on Figure 1 of the Source.
3. Sampling was Performed April through August 1997

LEGEND

47G00101 Monitoring Well Location and Groundwater Sample Designation

Constituent ID — Concentration (µg/L)

DDT	0.15
Pb	2060
Mn	194
Ni	384

µg/L = micrograms per liter

CONSTITUENT ABBREVIATIONS

B	BENZENE	1.0
TCE	TRICHLOROETHYLENE	3.0
X	XYLENES	20
2,4,5-T	2,4,5-TRICHLOROPHENOL	4.0
N	NAPHTHALENE	2.0
2-MN	2-METHYLNAPHTHALENE	20
4-MP	4-METHYLPHENOL	4.0
A	ALDRIN	.005
BHC	HEXACHLOROCYCLOHEXANE	
A-BHC	ALPHA BHC	.006
B-BHC	BETA BHC	.02
D-BHC	DELTA BHC	2.1
G-BHC	GAMMA BHC	0.2
D	DIELDRIN	.005
E	ENDRIN	2.0
H	HEPTACHLOR	0.4
DDD	4,4'-DDD	0.1
DDE	4,4'-DDE	0.1
DDT	4,4'-DDT	0.1
CA	CHLORDANE ALPHA	2.0
CG	CHLORDANE GAMMA	2.0
MCPA	2-METHYL-4-CHLOROPHENOXY ACETIC ACID	3.5
Al	ALUMINUM	200
Sb	ANTIMONY	6
As	ARSENIC	50
Fe	IRON	300
Mn	MANGANESE	50
Ni	NICKEL	100

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

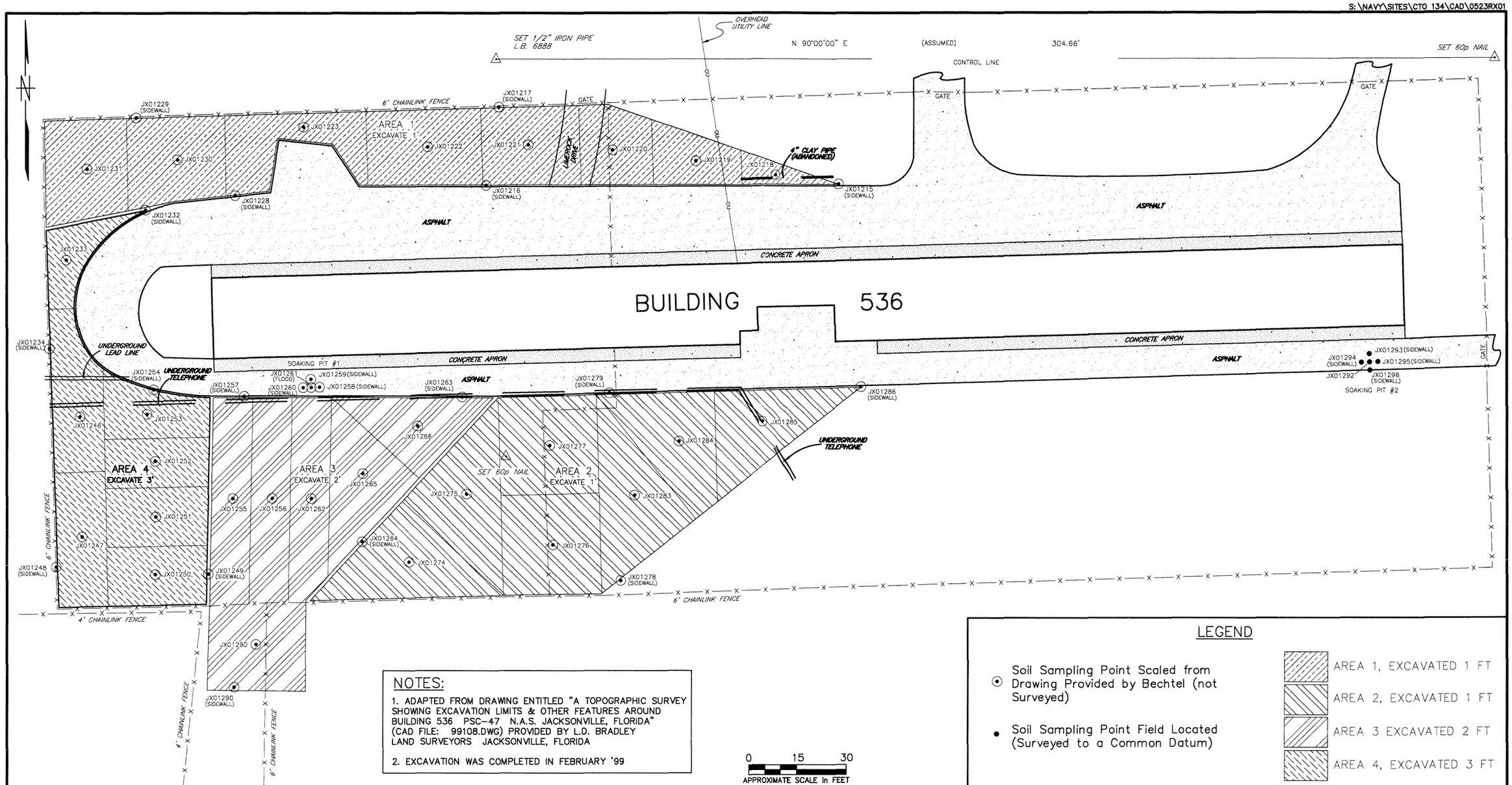
DRAWN BY CW DATE 9/21/00
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

HISTORICAL GROUNDWATER ANALYTICAL RESULTS EXCEEDING CURRENT FDEP GCTLs
PSC 47 – BUILDING 536
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. 0523
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2-9 REV. 0

FORM CADD NO. SDIV_BH.DWG – REV 0 – 1/20/98

S:\NAVY\SITES\CTO_134\CAD\0523RX01



NOTES:

1. ADAPTED FROM DRAWING ENTITLED "A TOPOGRAPHIC SURVEY SHOWING EXCAVATION LIMITS & OTHER FEATURES AROUND BUILDING 536 PSC-47 N.A.S. JACKSONVILLE, FLORIDA" (CAD FILE: 99108.DWG) PROVIDED BY L.D. BRADLEY LAND SURVEYORS JACKSONVILLE, FLORIDA
2. EXCAVATION WAS COMPLETED IN FEBRUARY '99

LEGEND

- ⊙ Soil Sampling Point Scaled from Drawing Provided by Bechtel (not Surveyed)
- • Soil Sampling Point Field Located (Surveyed to a Common Datum)

- AREA 1, EXCAVATED 1 FT
- AREA 2, EXCAVATED 1 FT
- AREA 3 EXCAVATED 2 FT
- AREA 4, EXCAVATED 3 FT

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

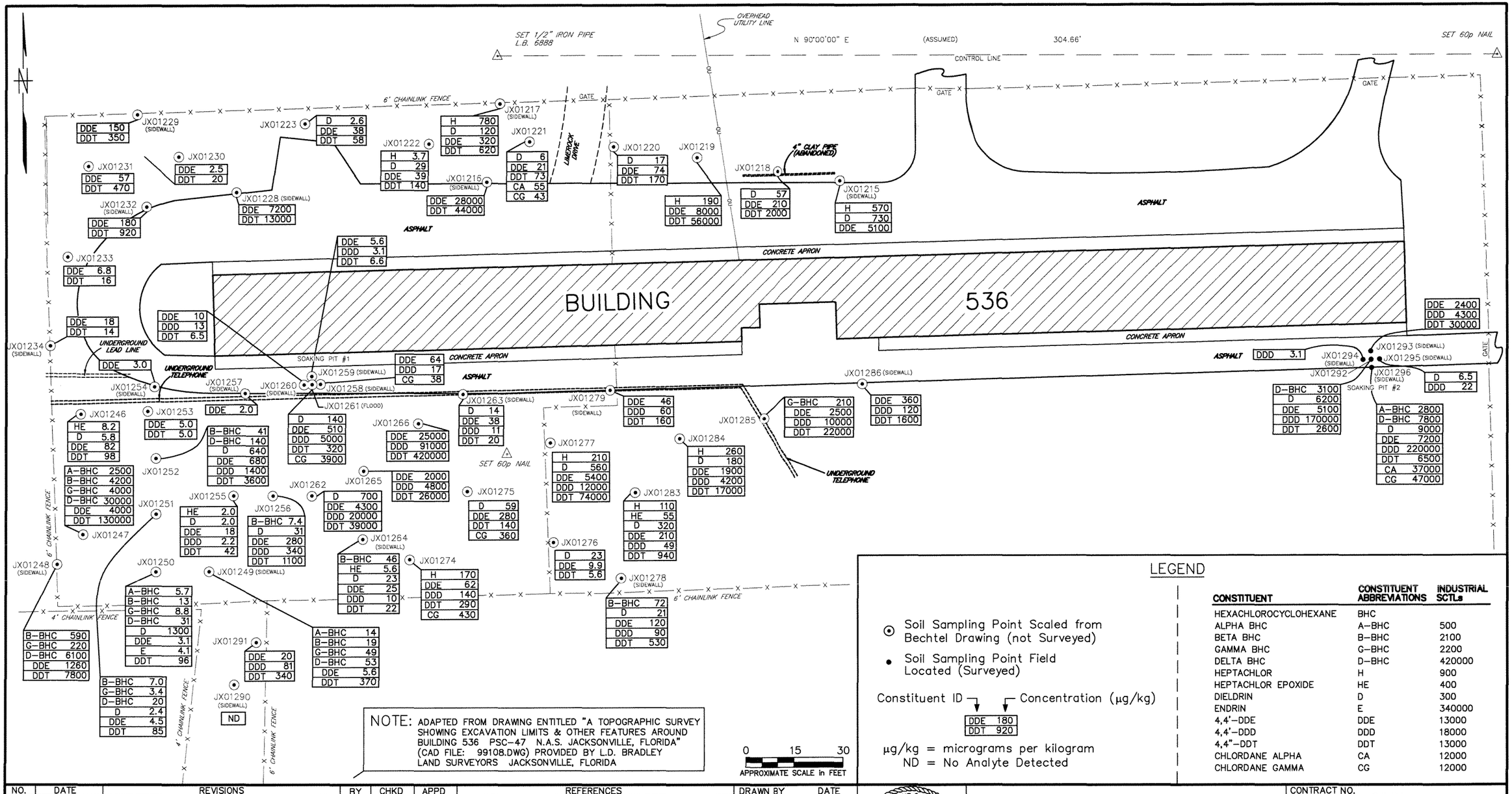
DRAWN BY LLK DATE 5/10/00
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

DEPARTMENT OF THE NAVY — SOUTHERN DIV FACILITIES ENGINEERING COMD

SOIL EXCAVATION AREAS AND SAMPLING POINT LOCATIONS
PSC 47 – BUILDING 536
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. 0523
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2-4
REV. 0

FORM CADD NO. SDIV_BH.DWG – REV 0 – 1/20/98



NOTE: ADAPTED FROM DRAWING ENTITLED "A TOPOGRAPHIC SURVEY SHOWING EXCAVATION LIMITS & OTHER FEATURES AROUND BUILDING 536 PSC-47 N.A.S. JACKSONVILLE, FLORIDA" (CAD FILE: 99108.DWG) PROVIDED BY L.D. BRADLEY LAND SURVEYORS JACKSONVILLE, FLORIDA

0 15 30
APPROXIMATE SCALE In FEET

LEGEND

- ⊙ Soil Sampling Point Scaled from Bechtel Drawing (not Surveyed)
- • Soil Sampling Point Field Located (Surveyed)

Constituent ID → DDE 180 / DDT 920 ← Concentration (µg/kg)

µg/kg = micrograms per kilogram
ND = No Analyte Detected

CONSTITUENT	CONSTITUENT ABBREVIATIONS	INDUSTRIAL SCTLs
HEXACHLOROCYCLOHEXANE	BHC	
ALPHA BHC	A-BHC	500
BETA BHC	B-BHC	2100
GAMMA BHC	G-BHC	2200
DELTA BHC	D-BHC	420000
HEPTACHLOR	H	900
HEPTACHLOR EPOXIDE	HE	400
DIELDRIN	D	300
ENDRIN	E	340000
4,4'-DDE	DDE	13000
4,4'-DDD	DDD	18000
4,4"-DDT	DDT	13000
CHLORDANE ALPHA	CA	12000
CHLORDANE GAMMA	CG	12000

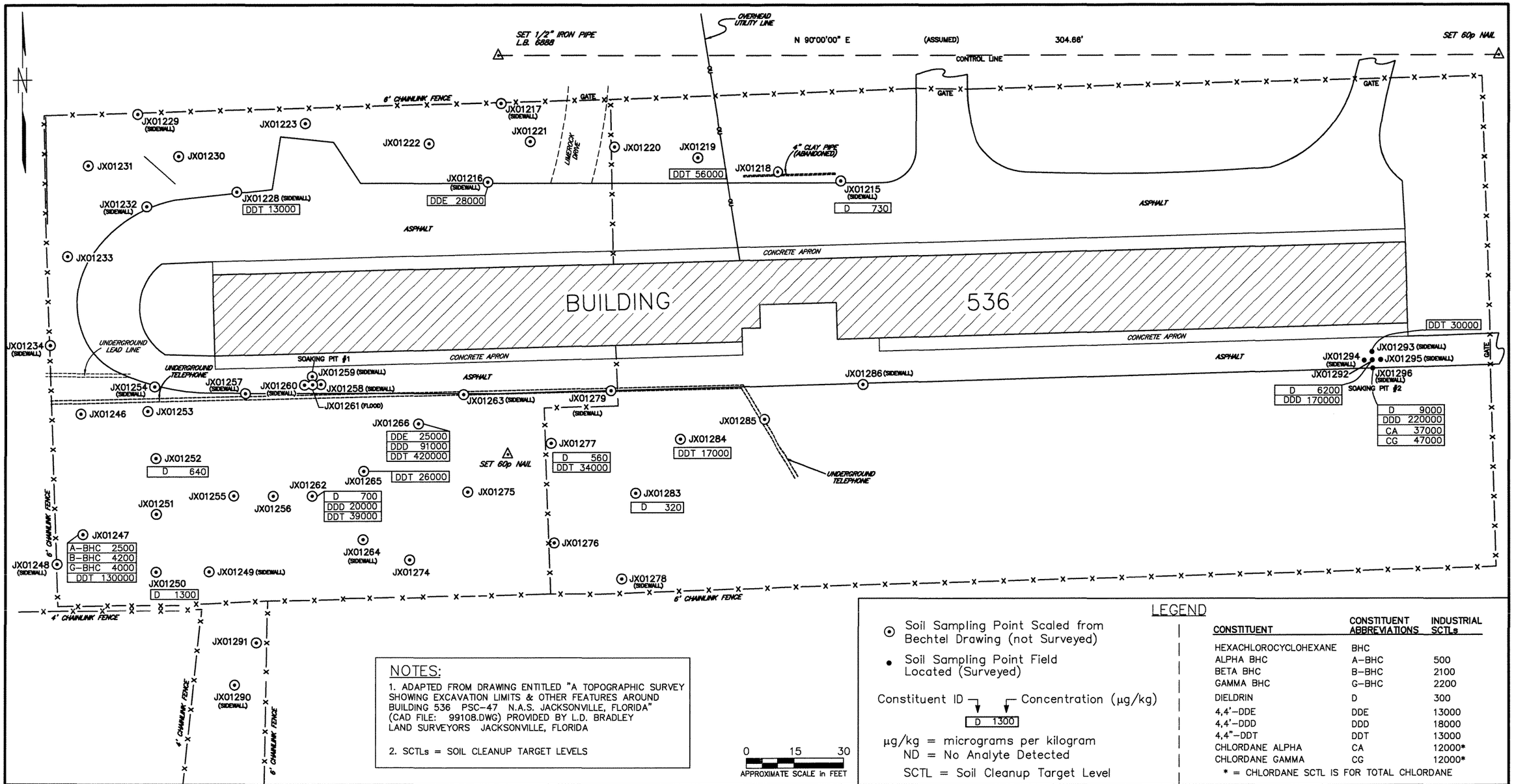
NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY LLK DATE 5/8/00
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

DEPARTMENT OF THE NAVY · SOUTHERN DIV FACILITIES ENGINEERING COMMAND

POST-EXCAVATION SOIL ANALYTICAL RESULTS
FEBRUARY 1999
PSC 47 - BUILDING 536
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. 0523
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2-5
REV. 0



NOTES:

1. ADAPTED FROM DRAWING ENTITLED "A TOPOGRAPHIC SURVEY SHOWING EXCAVATION LIMITS & OTHER FEATURES AROUND BUILDING 536 PSC-47 N.A.S. JACKSONVILLE, FLORIDA" (CAD FILE: 99108.DWG) PROVIDED BY L.D. BRADLEY LAND SURVEYORS JACKSONVILLE, FLORIDA
2. SCTLs = SOIL CLEANUP TARGET LEVELS

0 15 30
APPROXIMATE SCALE in FEET

LEGEND

- ⊙ Soil Sampling Point Scaled from Bechtel Drawing (not Surveyed)
- • Soil Sampling Point Field Located (Surveyed)

Constituent ID — D 1300 — Concentration (µg/kg)

µg/kg = micrograms per kilogram
ND = No Analyte Detected
SCTL = Soil Cleanup Target Level

CONSTITUENT	CONSTITUENT ABBREVIATIONS	INDUSTRIAL SCTLs
HEXACHLOROCYCLOHEXANE	BHC	
ALPHA BHC	A-BHC	500
BETA BHC	B-BHC	2100
GAMMA BHC	G-BHC	2200
DIELDRIN	D	300
4,4'-DDE	DDE	13000
4,4'-DDD	DDD	18000
4,4"-DDT	DDT	13000
CHLORDANE ALPHA	CA	12000*
CHLORDANE GAMMA	CG	12000*

* = CHLORDANE SCTL IS FOR TOTAL CHLORDANE

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY LLK DATE 5/26/00
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

DEPARTMENT OF THE NAVY · SOUTHERN DIV FACILITIES ENGINEERING COMMAND

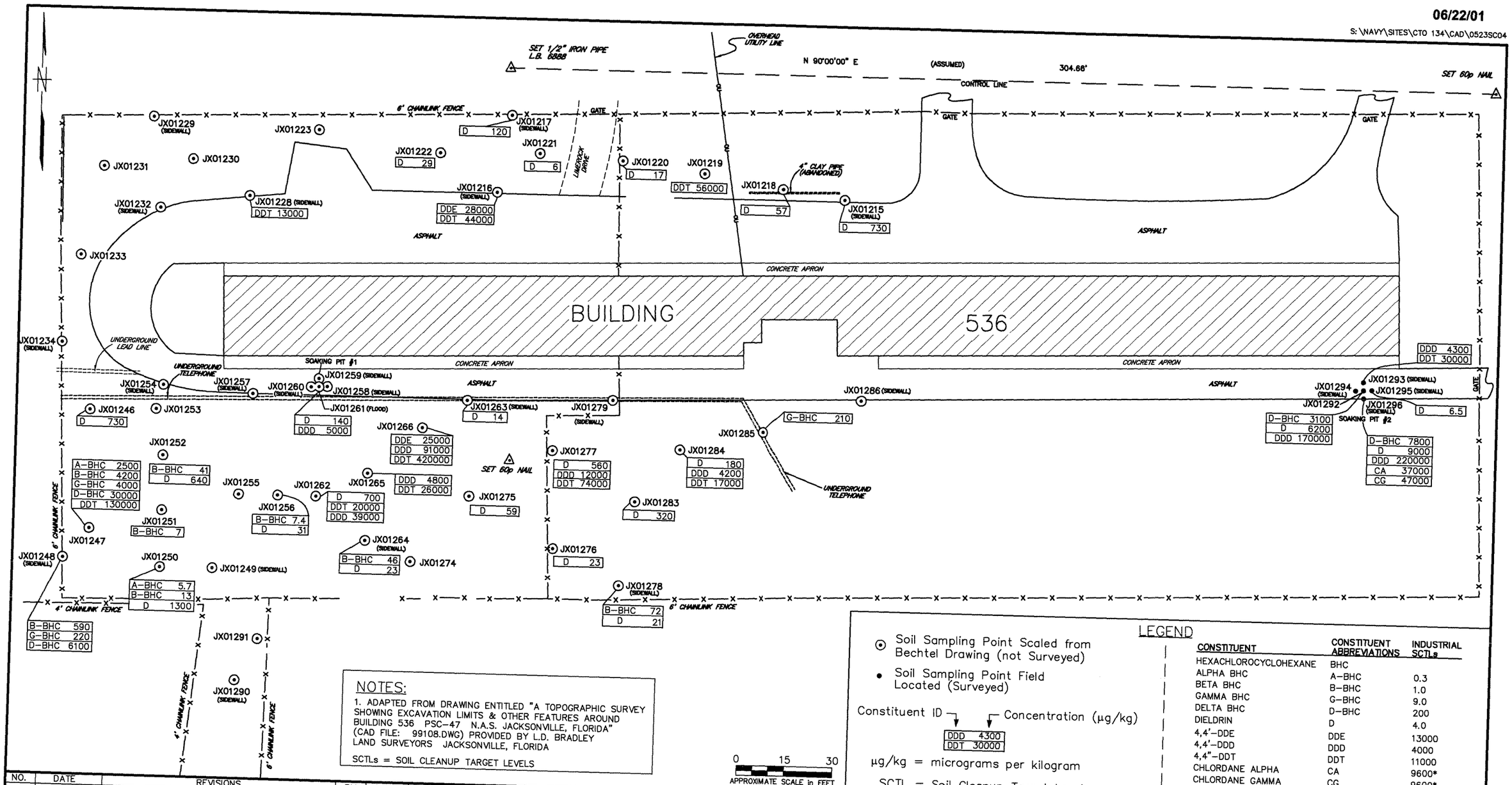
SOIL ANALYTICAL RESULTS EXCEEDING CURRENT FDEP INDUSTRIAL SCTLs
PSC 47 – BUILDING 536
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. 0523
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2-6
REV. 0

FORM CADD NO. SDIV_BH.DWG – REV 0 – 1/20/98

06/22/01

S:\NAVY\SITES\CTO 134\CAD\0523SC04



NOTES:

1. ADAPTED FROM DRAWING ENTITLED "A TOPOGRAPHIC SURVEY SHOWING EXCAVATION LIMITS & OTHER FEATURES AROUND BUILDING 536 PSC-47 N.A.S. JACKSONVILLE, FLORIDA" (CAD FILE: 99108.DWG) PROVIDED BY L.D. BRADLEY LAND SURVEYORS JACKSONVILLE, FLORIDA

SCTLs = SOIL CLEANUP TARGET LEVELS

0 15 30

APPROXIMATE SCALE in FEET

LEGEND

- ⊙ Soil Sampling Point Scaled from Bechtel Drawing (not Surveyed)
- • Soil Sampling Point Field Located (Surveyed)

Constituent ID → DDD 4300 DDT 30000 ← Concentration (µg/kg)

µg/kg = micrograms per kilogram

SCTL = Soil Cleanup Target Level

CONSTITUENT	CONSTITUENT ABBREVIATIONS	INDUSTRIAL SCTLs
HEXACHLOROCYCLOHEXANE	BHC	
ALPHA BHC	A-BHC	0.3
BETA BHC	B-BHC	1.0
GAMMA BHC	G-BHC	9.0
DELTA BHC	D-BHC	200
DIELDRIN	D	4.0
4,4'-DDE	DDE	13000
4,4'-DDD	DDD	4000
4,4"-DDT	DDT	11000
CHLORDANE ALPHA	CA	9600*
CHLORDANE GAMMA	CG	9600*

* = CHLORDANE SCTL IS FOR TOTAL CHLORDANE

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY LLK DATE 5/26/00

CHECKED BY DATE

COST/SCHED-AREA

SCALE AS NOTED

DEPARTMENT OF THE NAVY · SOUTHERN DIV FACILITIES ENGINEERING COMD

SOIL ANALYTICAL RESULTS EXCEEDING CURRENT FDEP LEACHABILITY SCTLs
PSC 47 – BUILDING 536
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. 0523

APPROVED BY DATE

APPROVED BY DATE

DRAWING NO. FIGURE 2-7 REV. 0

FORM CADD NO. SDIV_BH.DWG – REV 0 – 1/20/98

01JAX0095

Table C-1
Summary of Detected Pesticide Concentrations in Soil Samples

Historical Investigation
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	SCTLs (µg/kg)			Region 9 PRGs		1215	1216	1217	1218	1219	1220	1221
Sample ID	Residential	Industrial	Leachability*	Residential	Industrial	S-02	S-02	S-02	S-02	S-01	S-02	S-02
Collection Date						2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Pesticides (µg/kg)												
4,4'-DDD	4,500	18,000	4,000	2,400	10,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,4'-DDE	3,300	13,000	18,000	1,700	7,000	4200	28000	320	210	8000	74	21
4,4'-DDT	3,300	13,000	11,000	1,700	7,000	5 U	44000	620	2000	56000	170	73
Aldrin	70	300	500	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-BHC	200	500	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	55
Beta-BHC	600	2100	1	320	1,300	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Delta-BHC	22,000	420,000	200	NL	NL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dieldrin	70	300	4	30	110	730	5 U	120	57	5 U	14	6
Endosulfan I	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan II	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan Sulfate	NL	NL	NL	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin	21,000	340,000	1,000	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Aldehyde	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Ketone	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	700	2200	9	440	1,700	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	43
Heptachlor	200	900	23,000	110	380	570	5 U	780	5 U	190	5 U	5 U
Heptachlor Epoxide	100	400	600	53	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methoxychlor	370,000	21,000,000	160,000	310,000	3,100,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toxaphene	1,000	3700	31,000	440	1,600	5 U	5 U	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Table C-1 (Continued)
Summary of Detected Pesticide Concentrations in Soil Samples

Historical Investigation
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	SCTLs (µg/kg)			Region 9 PRGs		1222	1223	1228	1229	1230	1231	1232
Sample ID	Residential	Industrial	Leachability*	Residential	Industrial	S-02	S-02	S-02	S-01	S-02	S-02	S-01
Collection Date						2/23/1999	2/23/1999	2/24/1999	2/24/1999	2/24/1999	2/24/1999	2/24/1999
Pesticides (µg/kg)												
4,4'-DDD	4,500	18,000	4,000	2,400	10,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,4'-DDE	3,300	13,000	18,000	1,700	7,000	39	38	7200	150	2.5	57	180
4,4'-DDT	3,300	13,000	11,000	1,700	7,000	140	58	13000	350	20	470	920
Aldrin	70	300	500	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-BHC	200	500	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Beta-BHC	600	2100	1	320	1,300	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Delta-BHC	22,000	420,000	200	NL	NL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dieldrin	70	300	4	30	110	29	2.6	5 U	5 U	5 U	5 U	5 U
Endosulfan I	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan II	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan Sulfate	NL	NL	NL	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin	21,000	340,000	1,000	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Aldehyde	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Ketone	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	700	2200	9	440	1,700	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Heptachlor	200	900	23,000	110	380	3.7	5 U	5 U	5 U	5 U	5 U	5 U
Heptachlor Epoxide	100	400	600	53	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methoxychlor	370,000	21,000,000	160,000	310,000	3,100,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toxaphene	1,000	3700	31,000	440	1,600	5 U	5 U	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Table C-1 (Continued)
Summary of Detected Pesticide Concentrations in Soil Samples

Historical Investigation
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	SCTLs (µg/kg)			Region 9 PRGs		1233	1234	1246	1247	1248	1249	1250
Sample ID	Residential	Industrial	Leachability*	Residential	Industrial	S-04	S-01	S-04	S-04	S-03	S-03	S-04
Collection Date						2/24/1999	2/24/1999	2/25/1999	2/25/1999	2/25/1999	2/25/1999	2/25/1999
Pesticides (µg/kg)												
4,4'-DDD	4,500	18,000	4,000	2,400	10,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,4'-DDE	3,300	13,000	18,000	1,700	7,000	6.8	18	82	4000	1200	5.6	3.1
4,4'-DDT	3,300	13,000	11,000	1,700	7,000	16	5 U	98	130000	7800	370	96
Aldrin	70	300	500	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-BHC	200	500	0.3	90	360	5 U	5 U	5 U	2500	5 U	14	5.7
Alpha-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Beta-BHC	600	2100	1	320	1,300	5 U	5 U	5 U	4200	560	19	13
Delta-BHC	22,000	420,000	200	NL	NL	5 U	5 U	5 U	30000	6100	53	31
Dieldrin	70	300	4	30	110	5 U	5 U	5.8	5 U	5 U	5 U	1300
Endosulfan I	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan II	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan Sulfate	NL	NL	NL	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin	21,000	340,000	1,000	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	4.1
Endrin Aldehyde	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Ketone	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	700	2200	9	440	1,700	5 U	5 U	5 U	4000	220	49	8.8
Gamma-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Heptachlor	200	900	23,000	110	380	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Heptachlor Epoxide	100	400	600	53	190	5 U	5 U	8.2	5 U	5 U	5 U	5 U
Methoxychlor	370,000	21,000,000	160,000	310,000	3,100,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toxaphene	1,000	3700	31,000	440	1,600	5 U	5 U	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Table C-1 (Continued)
Summary of Detected Pesticide Concentrations in Soil Samples

Historical Investigation
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	SCTLs (µg/kg)			Region 9 PRGs		1251	1252	1253	1254	1255	1256	1257
Sample ID	Residential	Industrial	Leachability*	Residential	Industrial	S-04	S-04	S-04	S-01	S-03	S-03	S-01
Collection Date						2/25/1999	2/26/1999	2/26/1999	2/26/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides (µg/kg)												
4,4'-DDD	4,500	18,000	4,000	2,400	10,000	5 U	1400	5	5 U	2.2	340	5 U
4,4'-DDE	3,300	13,000	18,000	1,700	7,000	4.5	680	5 U	3	18	280	2
4,4'-DDT	3,300	13,000	11,000	1,700	7,000	85	3600	5	5 U	4.2	1100	5 U
Aldrin	70	300	500	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-BHC	200	500	0.3	90	360	5	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Beta-BHC	600	2100	1	320	1,300	7	41	5 U	5 U	5 U	7.4	5 U
Delta-BHC	22,000	420,000	200	NL	NL	20	140	5 U	5 U	5 U	5 U	5 U
Dieldrin	70	300	4	30	110	2.4	640	5 U	5 U	2	31	5 U
Endosulfan I	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan II	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan Sulfate	NL	NL	NL	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin	21,000	340,000	1,000	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Aldehyde	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Ketone	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	700	2200	9	440	1,700	3.4	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Heptachlor	200	900	23,000	110	380	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Heptachlor Epoxide	100	400	600	53	190	5 U	5 U	5 U	5 U	2	5 U	5 U
Methoxychlor	370,000	21,000,000	160,000	310,000	3,100,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toxaphene	1,000	3700	31,000	440	1,600	5 U	5 U	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Table C-1 (Continued)
Summary of Detected Pesticide Concentrations in Soil Samples

Historical Investigation
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	SCTLs (µg/kg)			Region 9 PRGs		1258	1259	1260	1261	1262	1263	1264
Sample ID	Residential	Industrial	Leachability*	Residential	Industrial	S-01	S-01	S-01	S-04	S-03	S-01	S-01
Collection Date						3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides (µg/kg)												
4,4'-DDD	4,500	18,000	4,000	2,400	10,000	17	3.1	13	5000	20000	11	10
4,4'-DDE	3,300	13,000	18,000	1,700	7,000	64	5.6	10	510	4300	38	25
4,4'-DDT	3,300	13,000	11,000	1,700	7,000	5 U	6.6	6.5	320	39000	20	22
Aldrin	70	300	500	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-BHC	200	500	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Beta-BHC	600	2100	1	320	1,300	5 U	5 U	5 U	5 U	5 U	5 U	46
Delta-BHC	22,000	420,000	200	NL	NL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dieldrin	70	300	4	30	110	5 U	5 U	5 U	140	700	14	23
Endosulfan I	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan II	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan Sulfate	NL	NL	NL	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin	21,000	340,000	1,000	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Aldehyde	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Ketone	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	700	2200	9	440	1,700	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-Chlordane	3,100	12,000	9,600	1,600	6,500	38	5 U	5 U	3900	5 U	5 U	5 U
Heptachlor	200	900	23,000	110	380	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Heptachlor Epoxide	100	400	600	53	190	5 U	5 U	5 U	5 U	5 U	5 U	5.6
Methoxychlor	370,000	21,000,000	160,000	310,000	3,100,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toxaphene	1,000	3700	31,000	440	1,600	5 U	5 U	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Table C-1 (Continued)
Summary of Detected Pesticide Concentrations in Soil Samples

Historical Investigation
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	SCTLs (µg/kg)			Region 9 PRGs		1265	1266	1274	1275	1276	1277	1278
Sample ID	Residential	Industrial	Leachability*	Residential	Industrial	S-03	S-03	S-02	S-02	S-02	S-02	S-01
Collection Date						3/1/1999	3/1/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Pesticides (µg/kg)												
4,4'-DDD	4,500	18,000	4,000	2,400	10,000	1800	91000	140	5 U	5 U	12000	90
4,4'-DDE	3,300	13,000	18,000	1,700	7,000	2000	25000	62	280	9.9	5400	120
4,4'-DDT	3,300	13,000	11,000	1,700	7,000	26000	420000	290	140	5.6	74000	530
Aldrin	70	300	500	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-BHC	200	500	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Beta-BHC	600	2100	1	320	1,300	5 U	5 U	5 U	5 U	5 U	5 U	72
Delta-BHC	22,000	420,000	200	NL	NL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dieldrin	70	300	4	30	110	5 U	5 U	5 U	59	23	560	21
Endosulfan I	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan II	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan Sulfate	NL	NL	NL	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin	21,000	340,000	1,000	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Aldehyde	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Ketone	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	700	2200	9	440	1,700	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	430	360	5 U	5 U	5 U
Heptachlor	200	900	23,000	110	380	5 U	5 U	170	5 U	5 U	210	5 U
Heptachlor Epoxide	100	400	600	53	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methoxychlor	370,000	21,000,000	160,000	310,000	3,100,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toxaphene	1,000	3700	31,000	440	1,600	5 U	5 U	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Table C-1 (Continued)
Summary of Detected Pesticide Concentrations in Soil Samples

Historical Investigation
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	SCTLs (µg/kg)			Region 9 PRGs		1279	1283	1284	1285	1286	1290	1291
Sample ID	Residential	Industrial	Leachability*	Residential	Industrial	S-01	S-02	S-02	S-02	S-01	S-03	S-01
Collection Date						3/2/1999	3/3/1999	3/3/1999	3/3/1999	3/3/1999	3/4/1999	3/4/1999
Pesticides (µg/kg)												
4,4'-DDD	4,500	18,000	4,000	2,400	10,000	60	49	4200	10000	120	5 U	81
4,4'-DDE	3,300	13,000	18,000	1,700	7,000	46	210	1900	2500	360	5 U	20
4,4'-DDT	3,300	13,000	11,000	1,700	7,000	160	940	17000	22000	1600	5 U	340
Aldrin	70	300	500	29	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-BHC	200	500	0.3	90	360	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Alpha-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Beta-BHC	600	2100	1	320	1,300	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Delta-BHC	22,000	420,000	200	NL	NL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dieldrin	70	300	4	30	110	5 U	320	180	5 U	5 U	5 U	5 U
Endosulfan I	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan II	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endosulfan Sulfate	NL	NL	NL	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin	21,000	340,000	1,000	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Aldehyde	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Endrin Ketone	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	700	2200	9	440	1,700	5 U	5 U	5 U	210	5 U	5 U	5 U
Gamma-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Heptachlor	200	900	23,000	110	380	5 U	110	260	5 U	5 U	5 U	5 U
Heptachlor Epoxide	100	400	600	53	190	5 U	55	5 U	5 U	5 U	5 U	5 U
Methoxychlor	370,000	21,000,000	160,000	310,000	3,100,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toxaphene	1,000	3700	31,000	440	1,600	5 U	5 U	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Table C-1 (Continued)
Summary of Detected Pesticide Concentrations in Soil Samples

Historical Investigation
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Boring JAX47-	SCTLs (µg/kg)			Region 9 PRGs		1292	1293	1294	1295	1296
Sample ID	Residential	Industrial	Leachability*	Residential	Industrial	S-04	S-03	S-01	S-01	S-03
Collection Date						3/8/1999	3/8/1999	3/8/1999	3/8/1999	3/8/1999
Pesticides (µg/kg)										
4,4'-DDD	4,500	18,000	4,000	2,400	10,000	170000	4300	3.1	22	220000
4,4'-DDE	3,300	13,000	18,000	1,700	7,000	5100	2400	5 U	5 U	7500
4,4'-DDT	3,300	13,000	11,000	1,700	7,000	2600	30000	5 U	5 U	6500
Aldrin	70	300	500	29	100	5 U	5 U	5 U	5 U	5 U
Alpha-BHC	200	500	0.3	90	360	5 U	5 U	5 U	5 U	5 U
Alpha-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	37000
Beta-BHC	600	2100	1	320	1,300	5 U	5 U	5 U	5 U	5 U
Delta-BHC	22,000	420,000	200	NL	NL	3100	5 U	5 U	5 U	7800
Dieldrin	70	300	4	30	110	6200	5 U	5 U	6.5	9000
Endosulfan I	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U
Endosulfan II	410,000	6,700,000	3,800	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U
Endosulfan Sulfate	NL	NL	NL	370,000	3,700,000	5 U	5 U	5 U	5 U	5 U
Endrin	21,000	340,000	1,000	18,000	180,000	5 U	5 U	5 U	5 U	5 U
Endrin Aldehyde	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U
Endrin Ketone	NL	NL	NL	18,000	180,000	5 U	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	700	2200	9	440	1,700	5 U	5 U	5 U	5 U	5 U
Gamma-Chlordane	3,100	12,000	9,600	1,600	6,500	5 U	5 U	5 U	5 U	47000
Heptachlor	200	900	23,000	110	380	5 U	5 U	5 U	5 U	5 U
Heptachlor Epoxide	100	400	600	53	190	5 U	5 U	5 U	5 U	5 U
Methoxychlor	370,000	21,000,000	160,000	310,000	3,100,000	5 U	5 U	5 U	5 U	5 U
Toxaphene	1,000	3700	31,000	440	1,600	5 U	5 U	5 U	5 U	5 U

See notes at end of table.

Notes:

Bold values exceed Industrial SCTLs.
µg/kg = micrograms per kilogram
DDD = Dichlorodiphenyldichoroethane
DDE = Dichlorodiphenyldichloroethylene
DDT = Dichlorodiphenyltrichloroethane
BHC = Hexachlorocyclohexane

SCTLs = Soil Cleanup Target Levels
PRGs = Preliminary Remedial Goals
NL = not listed
* = based on groundwater
J= Estimated value
U= Less than laboratory detection limit

NA = Not analyzed

APPENDIX D

LABORATORY ANALYSES PERFORMED ON SOIL AND GROUNDWATER SAMPLES

Table D-1
Phase I Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Sample Designation[1] (DPT Borings) JAX47-		Laboratory (F) Fixed-base (M) Mobile	Analysis/Method							
			TCL Pesticides	TCL VOCs	Hydrocarbon Short List[2]	OP Pesticides	TCL Herbicides	Dioxins	PCBs	SVOCs
			EPA 8081A	EPA 8260B		EPA 8141A	SW-846 8151A	SW-846 8290	EPA 8082	EPA 8270C
SB01-	G-8-063001	M	√							
	G-26-063001	M	√							
	G-40-063001	M	√							
SB02-	G-8-062901	M	√							
	G-22-062901	M	√							
	G-36-062901	M	√							
SB03-	G-6-062901	M	√							
	G-8-070501	F	√	√		√	√		√	√
	G-8-121801	F		√						
	G-22-062901	M	√							
	G-36-062901	M	√							
SB04-	G-8-062901	M	√							
	G-22-062901	M	√							
	G-36-062901	M	√							
SB05-	G-5-070201	M	√							
	G-5-070601	F	√	√		√	√	√	√	√
	G-18-070201	M	√							
	G-20-121901	F		√						
	G-28-070201	M	√							
SB06-	G-10-070601	F	√			√	√	√		√
	G-16-121901	F		√						
	G-20-070201	M	√							
	G-28-121901	F		√						
	G-36-070201	M	√							

See Notes at end of table.

Table D-1
Phase I Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Sample Designation[1] (DPT Borings) JAX47-		Laboratory (F) Fixed-base (M) Mobile	Analysis/Method							
			TCL Pesticides	TCL VOCs	Hydrocarbon Short List[2]	OP Pesticides	TCL Herbicides	Dioxins	PCBs	SVOCs
			EPA 8081A	EPA 8260B		EPA 8141A	SW-846 8151A	SW-846 8290	EPA 8082	EPA 8270C
SB07-	G-8-063001	M	√							
	G-20-063001	M	√							
	G-20-070501	F	√			√	√			
	G-36-063001	M	√							
SB08-	G-8-063001	M	√							
	G-20-063001	M	√							
	G-36-063001	M	√							
SB09-	G-8-062901	M	√							
	G-16-062901	M	√							
	G-28-062901	M	√							
SB10-	G-8-063001	M	√							
	G-20-063001	M	√							
	G-36-063001	M	√							
SB11-	G-8-063001	M	√							
	G-28-063001	M	√							
	G-36-063001	M	√							
SB12-	G-8-062601	M	√							
	G-20-062901	M	√							
	G-30-062901	M	√							
SB13-	G-8-063001	M	√							
	G-8-070601	F	√	√		√	√			
	G-20-063001	M	√							
	G-20-121801	F		√						
	G-36-063001	M	√							

See Notes at end of table.

Table D-1
Phase I Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Sample Designation[1] (DPT Borings) JAX47-		Laboratory (F) Fixed-base (M) Mobile	Analysis/Method							
			TCL Pesticides	TCL VOCs	Hydrocarbon Short List[2]	OP Pesticides	TCL Herbicides	Dioxins	PCBs	SVOCs
			EPA 8081A	EPA 8260B		EPA 8141A	SW-846 8151A	SW-846 8290	EPA 8082	EPA 8270C
SB14-	G-8-062901	M	√							
	G-18-062901	M	√							
	G-28-062901	M	√							
SB15-	G-8-062901	M	√							
	G-16-062901	M	√							
	G-32-062901	M	√							
SB16-	G-8-062501	M	√		√					
	G-20-062501	M	√		√					
	G-32-062501	M	√		√					
SB17-	G-8-062501	M	√		√					
	G-20-062501	M	√		√					
	G-32-062501	M	NA		√					
SB18-	G-8-062501	M	√		√					
	G-20-062501	M	√		√					
	G-32-062501	M	√		√					
	G-32-070601	F	√	√		√	√			
SB19-	G-8-070201	M	√							
	G-20-070201	M	√							
	G-36-070201	M	√							
SB20-	G-7-062801	M	√							
	G-17-062801	M	√							
	G-27-062801	M	√							

See Notes at end of table.

Table D-1
Phase I Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Sample Designation[1] (DPT Borings) JAX47-		Laboratory (F) Fixed-base (M) Mobile	Analysis/Method							
			TCL Pesticides	TCL VOCs	Hydrocarbon Short List[2]	OP Pesticides	TCL Herbicides	Dioxins	PCBs	SVOCs
			EPA 8081A	EPA 8260B		EPA 8141A	SW-846 8151A	SW-846 8290	EPA 8082	EPA 8270C
SB21-	G-8-062601	M	√							
	G-32-070101	M	√							
	G-44-070101	M	√							
SB22-	G-8-062601	M	√							
	G-26-062601	M	√							
	G-44-062601	M	√							
SB23-	G-8-062601	M	√							
	G-26-062701	M	√							
	G-44-062701	M	√							
SB24-	G-8-062601	M	√							
	G-26-062701	M	√							
	G-44-062701	M	√							
SB25-	G-8-062801	M	√							
	G-18-062801	M	√							
	G-28-062801	M	√							
SB26-	G-8-062701	M	√							
	G-22-062701	M	√							
	G-35-062701	M	√							
SB27-	G-10-062801	M	√							
	G-26-062801	M	√							
	G-44-062801	M	√							

See Notes at end of table.

Table D-1
Phase I Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Sample Designation[1] (DPT Borings) JAX47-		Laboratory (F) Fixed-base (M) Mobile	Analysis/Method							
			TCL Pesticides	TCL VOCs	Hydrocarbon Short List[2]	OP Pesticides	TCL Herbicides	Dioxins	PCBs	SVOCs
			EPA 8081A	EPA 8260B		EPA 8141A	SW-846 8151A	SW-846 8290	EPA 8082	EPA 8270C
SB28-	G-8-063001	M	√							
	G-10-070601	F	√			√	√			
	G-20-063001	M	√							
	G-32-063001	M	√							
SB29-	G-8-062601	M	√							
	G-8-121901	F		√						
	G-26-062701	M	√							
	G-44-062701	M	√							
SB30-	G-8-062601	M	√							
	G-8-121901	F		√						
	G-26-062701	M	√							
	G-44-062701	M	√							
SB31-	G-8-063001	M	√							
	G-20-063001	M	√							
	G-36-063001	M	√							
SB32-	G-8-070101	M	√							
	G-20-070101	M	√							
	G-36-070101	M	√							
	G-36-070601	F	√			√	√			
SB33-	G-8-070201	M	√							
	G-8-070601	F		√						
	G-18-070201	M	√							
	G-28-070201	M	√							
	G-28-070601	F	√			√	√	√		

See Notes at end of table.

Table D-1
Phase I Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Sample Designation[1] (DPT Borings) JAX47-		Laboratory (F) Fixed-base (M) Mobile	Analysis/Method							
			TCL Pesticides	TCL VOCs	Hydrocarbon Short List[2]	OP Pesticides	TCL Herbicides	Dioxins	PCBs	SVOCs
			EPA 8081A	EPA 8260B		EPA 8141A	SW-846 8151A	SW-846 8290	EPA 8082	EPA 8270C
SB34-	G-8-070201	M	√							
	G-20-070201	M	√							
	G-32-070201	M	√							
SB35-	G-8-070201	M	√							
	G-20-070201	M	√							
	G-36-070201	M	√							
SB36-	G-8-122001	F	√							
	G-20-122001	F	√							
	G-36-122001	F	√							
SB37-	G-8-122001	F	√	√						
	G-22-070501	F	√							
	G-36-122001	F	√							
SB38-	G-8-070501	F	√				√	√		
	G-22-070501	F	√							
	G-36-121801	F	√							
SB39-	G-20-070501	F	√							
SB43-	G-8-121801	F		√						
	G-20-121801	F		√						
SB45-	G-8-121801	F		√						
SB46-	G-8-122001	F		√						
	G-20-122001	F		√						
SB47-	G-8-121801	F		√						
	G-20-121801	F		√						

See Notes at end of table.

Table D-1
Phase I Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Sample Designation[1] (DPT Borings) JAX47-		Laboratory (F) Fixed-base (M) Mobile	Analysis/Method							
			TCL Pesticides	TCL VOCs	Hydrocarbon Short List[2]	OP Pesticides	TCL Herbicides	Dioxins	PCBs	SVOCs
			EPA 8081A	EPA 8260B		EPA 8141A	SW-846 8151A	SW-846 8290	EPA 8082	EPA 8270C
SB48-	G-8-121801	F	√	√						
	G-20-121801	F		√						
SB49-	G-8-122001	F	√							
SB55-	G-15-122001	F	√							
SB57-	G-8-121901	F	√	√						
	G-20-121901	F	√	√						
	G-36-121901	F	√	√						
SB58-	G-8-122001	F	√							
	G-20-122001	F	√							
	G-37-122001	F	√							
SB59-	G-8-122001	F	√							
	G-20-122001	F	√							
	G-37-122001	F	√							
SB60-	G-8-122001	F	√	√						
SB61-	G-15-122001	F	√							

See Notes at end of table.

Table D-1
Phase I Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Sample Designation[1] (DPT Borings) JAX47-		Laboratory (F) Fixed-base (M) Mobile	Analysis/Method							
			TCL Pesticides	TCL VOCs	Hydrocarbon Short List[2]	OP Pesticides	TCL Herbicides	Dioxins	PCBs	SVOCs
			EPA 8081A	EPA 8260B		EPA 8141A	SW-846 8151A	SW-846 8290	EPA 8082	EPA 8270C
Permanent Wells JAX47-										
Pesticide Shop Well										
MW3-	062501	M	√		√					
DVECC Wells										
MW9371	062501	M	√		√					
MW9372	062501	M	√		√					
MW9373	062501	M	√		√					
MW9374	062501	M	√		√					
MW9375	062501	M	√		√					
MW9376	062501	M	√		√					

Notes:

NA = Not analyzed due to high turbidity

[1] Explanation of Sample Designations

1) DPT Borings

Example: JAX47-SB05-G-18-070201

JAX47 = PSC number at NAS Jacksonville
SB05 = DPT Boring Number
G = Groundwater
18 = Top of 4-ft sample interval (ft bls)
070201= Date Sampled

2) DVECC Wells

Example: JAX47-MW9373-062501

JAX47 = PSC number at NAS Jacksonville
MW9373 = Monitoring well #3 at Building 937

[2] Hydrocarbon Shortlist includes: benzene, toluene, ethylbenzene, xylenes, naphthalene, 1-methynaphthalene, 2-methynaphthalene, vinyl chloride, trans-dichoroethene (DCE), cis-DCE, trichoroethene, and tetrachoroethene; performed by the mobile laboratory only.

Table D-2
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Laboratory (F) Fixed-base (M) Mobile	Analysis/Method				
				TCL Pesticides	OP Pesticides	PCBs	VOCs	SVOCs
				EPA 8081A	EPA 8141A	EPA 8082	EPA 8260B	EPA 8270C
SB01-S-00	6/29/2001	0-1	M	√				
SB-01-S-00	12/19/2001	0-1	F	√	√	√	√	√
SB02-S-00	6/29/2001	0-1	M	√				
SB03-S-00	6/29/2001	0-1	M	√				
SB04-S-00	6/29/2001	0-1	M	√				
SB05-S-00	7/2/2001	0-1	M	√				
SB06-S-01	7/2/2001	1-2	M	√				
SB07-S-00	6/30/2001	0-1	M	√				
SB08-S-00	6/30/2001	0-1	M	√				
SB09-S-00	6/27/2001	0-1	M	√				
SB10-S-00	6/30/2001	0-1	M	√				
SB10-S-01	6/30/2001	1-2	M	√				
SB10-S-02	6/30/2001	2-3	M	√				
SB10-S-02	12/19/2001	2-3	F	√	√	√	√	√
SB11-S-00	6/25/2001	0-1	M	√				
SB11-S-01	6/26/2001	1-2	M	√				
SB11-S-01	7/1/2001	1-2	M	√				
SB12-S-00	6/25/2001	0-1	M	√				

See Notes at end of table.

Table D-2
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Laboratory (F) Fixed-base (M) Mobile	Analysis/Method				
				TCL Pesticides	OP Pesticides	PCBs	VOCs	SVOCs
				EPA 8081A	EPA 8141A	EPA 8082	EPA 8260B	EPA 8270C
SB12-S-01	6/26/2001	1-2	M	√				
SB14-S-00	6/27/2001	0-1	M	√				
SB15-S-00	6/27/2001	0-1	M	√				
SB16-S-00	6/25/2001	0-1	M	√				
SB16-S-01	6/25/2001	1-2	M	√				
SB16-S-02	12/11/2002	1-2	F	√				
SB17-S-00	6/25/2001	0-1	M	√				
SB17-S-00	12/19/2001	0-1	F	√	√	√	√	√
SB20-S-00	6/27/2001	0-1	M	√				
SB21-S-00	6/25/2001	0-1	M	√				
SB22-S-00	6/25/2001	0-1	M	√				
SB23-S-00	6/25/2001	0-1	M	√				
SB24-S-00	6/25/2001	0-1	M	√				
SB24-S-01	6/26/2001	1-2	M	√				
SB25-S-00	6/27/2001	0-1	M	√				

See Notes at end of table.

Table D-2
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Laboratory (F) Fixed-base (M) Mobile	Analysis/Method				
				TCL Pesticides	OP Pesticides	PCBs	VOCs	SVOCs
				EPA 8081A	EPA 8141A	EPA 8082	EPA 8260B	EPA 8270C
SB25-S-00	12/20/2001	0-1	F	√		√	√	√
SB25-S-01	12/20/2001	1-2	F	√				
SB26-S-00	6/27/2001	0-1	M	√				
SB27-S-00	6/27/2001	0-1	M	√				
SB28-S-00	6/30/2001	0-1	M	√				
SB29-S-00	6/26/2001	0-1	M	√				
SB30-S-00	6/26/2001	0-1	M	√				
SB32-S-01	7/1/2001	1-2	M	√				
SB32-S-47	12/19/2001	47-48	F	√	√			
SB40-S-00	12/20/2001	0-1	F	√				
SB41-S-00	12/18/2001	0-1	F	√				
SB42-S-00	12/20/2001	0-1	F	√				
SB44-S-00	12/20/2001	0-1	F	√				
SB50-S-00	12/18/2001	0-1	F	√				
SB51-S-00	12/18/2001	0-1	F	√				
SB55-S-01	12/11/2002	0-1	F	√				
SB56-S-00	12/18/2001	0-1	F	√				
SB56-S-01	12/11/2002	0-1	F	√				
SB56-S-02	12/11/2002	1-2	F	√				

See Notes at end of table.

Table D-2
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Laboratory (F) Fixed-base (M) Mobile	Analysis/Method				
				TCL Pesticides	OP Pesticides	PCBs	VOCs	SVOCs
				EPA 8081A	EPA 8141A	EPA 8082	EPA 8260B	EPA 8270C
SB57-S-01	12/11/2002	0-1	F	√				
SB58A-S-01	12/11/2002	0-1	F	√				
SB58A-S-02	1/20/2003	1-2	F	√				
SB59-S-01	1/20/2003	0-1	F	√				
SB59-S-02	1/28/2003	1-2	F	√				
SB60-S-01	1/20/2003	0-1	F	√				
SB61-S-01	1/20/2003	0-1	F	√				
SB61-S-02	1/28/2003	1-2	F	√				
SB62-S-01	1/20/2003	0-1	F	√				
SB63-S-01	1/28/2003	0-1	F	√				

Notes:
EPA - United States Environmental Protection Agency
ft bls - feet below land surface
OP - Organophosphorus
PCBs - polychlorinated biphenyls

Table D-3
Phase II Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Well Identification Number JAX47-	Date Sampled	Analysis/Method							
		TCL VOCs	TCL Pesticides	OP Pesticides	TCL Herbicides	TCL SVOCs	TCL PCBs	TAL Metals	NA Parameters
		EPA 8260B	EPA 8081A	EPA 8141A	EPA 8151A	EPA 8270C	EPA 8082	EPA 6010[1]	Various Methods[2]
MW-10S	4/9/2002	√	√	√	√				√
MW-11S	4/4/2002	√	√	√	√				√
MW-11D	4/4/2002	√	√	√	√				√
MW-12S	4/10/2002	√	√	√	√				√
MW-12S	2/27/2004							√[3]	
MW-13S	4/4/2002	√	√	√	√	√	√	√	√
MW-13D	4/4/2002	√	√	√	√	√	√	√	√
MW-14D	4/10/2002	√	√	√	√				√
MW-14D	2/27/2004							√[3]	
MW-15S	4/8/2002	√	√	√	√				√
MW-15S	2/27/2004							√[3]	
MW-15D	4/8/2002	√	√	√	√				√
MW-16S	4/8/2002	√	√	√	√				√
MW-16S	3/26/2004							√[3]	
MW-16D	4/5/2002	√	√	√	√				√
MW-17S	4/4/2002	√	√	√	√				√
MW-17S	3/26/2004							√[3]	
MW-17D	4/4/2002	√	√	√	√				√
MW-18S	4/5/2002	√	√	√	√				√
MW-18S	2/27/2004							√[3]	

Table D-3
Phase II Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Well Identification Number JAX47-	Date Sampled	Analysis/Method							
		TCL VOCs	TCL Pesticides	OP Pesticides	TCL Herbicides	TCL SVOCs	TCL PCBs	TAL Metals	NA Parameters
		EPA 8260B	EPA 8081A	EPA 8141A	EPA 8151A	EPA 8270C	EPA 8082	EPA 6010[1]	Various Methods[2]
MW-18D	4/5/2002	√	√	√	√				√
MW-19S	4/12/2002	√	√	√	√				√
MW-20S	4/9/2002	√	√	√	√				√
MW-21S	11/6/2002	√	√						
MW-22D	11/9/2002	√	√						
MW-23S	11/7/2002	√	√						
MW-24D	11/7/2002	√	√						
MW-25S	11/7/2002	√	√						
MW-26S	1/20/2003	√	√						
MW-27S	1/20/2003	√	√						
JAX-937-									
MW-01S	4/11/2002	√	√	√	√	√	√	√	√
MW-01S	2/27/2004							√[3]	
MW-02S	4/10/2002	√	√	√	√				√
MW-02S	2/27/2004							√[3]	
MW-03S	4/11/2002	√	√	√	√				√
MW-03S	3/26/2004							√[3]	
MW-04S	4/11/2002	√	√	√	√				√
MW-04S	2/27/2004							√[3]	
MW-05S	4/10/2002	√	√	√	√				√

Table D-3
Phase II Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Well Identification Number JAX47-	Date Sampled	Analysis/Method							
		TCL VOCs	TCL Pesticides	OP Pesticides	TCL Herbicides	TCL SVOCs	TCL PCBs	TAL Metals	NA Parameters
		EPA 8260B	EPA 8081A	EPA 8141A	EPA 8151A	EPA 8270C	EPA 8082	EPA 6010[1]	Various Methods[2]
JAX-937-									
MW-06D	4/11/2002	√	√	√	√	√	√	√	√
JAX-536-									
MW-03S	4/9/2002	√	√	√	√				√
JAX-47-									
USGS (S)	4/9/2002	√	√	√	√	√	√	√	√
USGS (D)	4/9/2002	√	√	√	√	√	√	√	√

Notes:

[1] Except Mercury by EPA 7470 and Thallium by EPA 6020.

[2] NA parameters analyzed with various methods, see report for list.

[3] Location was sampled for arsenic only for this sampling event.

EPA - United States Environmental Protection Agency

NA - Natural Attenuation

OP - Organophosphorus

TCL - Target Compound List

TAL - Target Analyte List

Table D-4
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Analysis/Method						
			TCL Pesticides		Arsenic		TCL VOCs	TCL SVOCs	TCL Herbicides
			EPA 8081A	SPLP	EPA 6010B	SPLP	EPA 8260B	EPA 8270C	EPA 8151A
SB64-01	11/28/2006	0-1			√				
SB64-06	11/28/2006	5-6			√				
SB65-01	11/28/2006	0-1			√				
SB65-06	11/28/2006	5-6			√				
SB66-01	11/28/2006	0-1			√				
SB66-06	11/28/2006	5-6			√				
SB67-01	11/28/2006	0-1			√				
SB67-06	11/28/2006	5-6			√				
SB68-01	11/28/2006	0-1			√				
SB68-07	11/28/2006	6-7			√				
SB69-01	11/28/2006	0-1			√				
SB69-07	11/28/2006	6-7			√				
SB70-01	11/28/2006	0-1			√				
SB70-06	11/28/2006	5-6			√				
SB71-01	11/28/2006	0-1			√				
SB71-06	11/28/2006	5-6			√				
SB72-01	11/28/2006	0-1			√				
SB72-06	11/28/2006	5-6			√				
SB73-01	11/28/2006	0-1			√				
SB73-06	11/28/2006	5-6			√				

Table D-4
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Analysis/Method						
			TCL Pesticides		Arsenic		TCL VOCs	TCL SVOCs	TCL Herbicides
			EPA 8081A	SPLP	EPA 6010B	SPLP	EPA 8260B	EPA 8270C	EPA 8151A
SB74-01	11/28/2006	0-1			√				
SB74-06	11/28/2006	5-6			√				
SB75-01	11/28/2006	0-1			√				
SB75-06	11/28/2006	5-6			√				
SB76-0-1	11/28/2006	0-1			√				
SB76-06	11/28/2006	5-6			√				
SB77-01	11/28/2006	0-1			√				
SB77-06	11/28/2006	5-6			√				
SB78-01	12/1/2006	0-1	√		√				
SB78-06	12/1/2006	5-6	√		√				
SB79-01	12/1/2006	0-1	√		√				
SB79-06	12/1/2006	5-6	√		√				
SB80-01	12/1/2006	0-1	√		√				
SB80-05	12/1/2006	4-5	√		√				
SB81-02	12/1/2006	1-2	√	√	√	√			
SB81-05	12/1/2006	4-5	√	√	√	√			
SB82-02	12/1/2006	1-2	√	√	√	√			
SB82-05	12/1/2006	4-5	√	√	√	√			
SB83-01	12/1/2006	0-1	√	√	√	√			
SB83-05	12/1/2006	4-5	√	√	√	√			

Table D-4
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Analysis/Method						
			TCL Pesticides		Arsenic		TCL VOCs	TCL SVOCs	TCL Herbicides
			EPA 8081A	SPLP	EPA 6010B	SPLP	EPA 8260B	EPA 8270C	EPA 8151A
SB84-01	11/29/2006	0-1	√		√				
SB84-05	11/29/2006	4-5	√		√				
SB85-01	11/29/2006	0-1	√		√				
SB85-05	11/29/2006	4-5	√		√				
SB86-01	11/29/2006	0-1	√		√				
SB86-06	11/29/2006	5-6	√		√				
SB87-01	12/1/2006	0-1	√		√				
SB87-05	12/1/2006	4-5	√		√				
SB88-03	12/1/2006	2-3	√		√				
SB88-06	12/1/2006	5-6	√		√				
SB89-02	11/30/2006	1-2	√	√	√	√			
SB89-05	11/30/2006	4-5	√	√	√	√			
SB90-03	12/1/2006	2-3	√		√				
SB90-06	12/1/2006	5-6	√		√				
SB91-01	12/1/2006	0-1	√		√				
SB91-04	12/1/2006	3-4	√		√				
SB91-06	12/1/2006	5-6	√		√				
SB92-01	11/29/2006	0-1	√		√				
SB92-06	11/29/2006	5-6	√		√				
SB93-01	11/29/2006	0-1	√	√	√	√			

Table D-4
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Analysis/Method						
			TCL Pesticides		Arsenic		TCL VOCs	TCL SVOCs	TCL Herbicides
			EPA 8081A	SPLP	EPA 6010B	SPLP	EPA 8260B	EPA 8270C	EPA 8151A
SB93-06	11/29/2006	5-6	√		√				
SB94-01	11/28/2006	0-1	√		√				
SB94-06	11/28/2006	5-6	√		√				
SB95-01	11/28/2006	0-1	√		√				
SB95-06	11/28/2006	5-6	√		√				
SB96-01	11/30/2006	0-1	√	√	√	√			
SB96-05	11/30/2006	4-5	√		√				
SB97-01	11/28/2006	0-1	√		√				
SB97-06	11/28/2006	5-6	√		√				
SB98-01	11/30/2006	0-1	√		√				
SB98-05	11/30/2006	4-5	√		√				
SB99-01	11/30/2006	0-1	√	√	√	√			
SB99-05	11/30/2006	4-5	√		√				
SB100-01	11/30/2006	0-1	√	√	√	√			
SB100-05	11/30/2006	4-5	√		√				
SB101-01	11/29/2006	0-1	√		√				
SB101-05	11/29/2006	4-5	√		√				
SB102-01	11/29/2006	0-1	√		√				
SB102-05	11/29/2006	4-5	√		√				
SB103-01	11/29/2006	0-1	√		√				

Table D-4
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Analysis/Method						
			TCL Pesticides		Arsenic		TCL VOCs	TCL SVOCs	TCL Herbicides
			EPA 8081A	SPLP	EPA 6010B	SPLP	EPA 8260B	EPA 8270C	EPA 8151A
SB103-05	11/29/2006	4-5	√		√				
SB104-01	11/29/2006	0-1	√	√	√	√			
SB104-05	11/29/2006	4-5	√		√				
SB105-01	11/30/2006	0-1	√	√	√	√			
SB105-05	11/30/2006	4-5	√		√				
SB106-01	11/30/2006	0-1	√	√	√	√			
SB106-05	11/30/2006	4-5	√		√				
SB107-01	11/30/2006	0-1	√	√	√	√			
SB107-05	11/30/2006	4-5	√		√				
SB108-01	11/29/2006	0-1	√		√				
SB108-06	11/29/2006	5-6	√		√				
SB109-01	11/29/2006	0-1	√		√				
SB109-06	11/29/2006	5-6	√		√				
SB110-01	11/30/2006	0-1	√	√	√	√			
SB110-05	11/30/2006	4-5	√	√	√	√			
SB111-01	11/29/2006	0-1	√		√				
SB111-05	11/29/2006	0-5	√		√				
SB112-01	11/29/2006	0-1	√		√				
SB112-05	11/29/2006	0-5	√		√				
SB113-01	11/29/2006	0-1	√		√				

Table D-4
Soil Sample Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Identification Number JAX47-	Collection Date	Sample Depth (ft bls)	Analysis/Method						
			TCL Pesticides		Arsenic		TCL VOCs	TCL SVOCs	TCL Herbicides
			EPA 8081A	SPLP	EPA 6010B	SPLP	EPA 8260B	EPA 8270C	EPA 8151A
SB113-06	11/29/2006	5-6	√		√				
SB114-01	3/9/2007	0-1			√				
SB114-05	3/9/2007	4-5			√				
SB115-01	3/9/2007	0-1			√				
SB115-05	3/9/2007	4-5			√				
SB116-01	3/9/2007	0-1			√				
SB117-01	3/9/2007	0-1			√				
SB118-01	3/13/2007	0-1	√		√		√	√	√
SB118-03	3/13/2007	2-3	√		√		√	√	√
SB119-01	3/9/2007	0-1			√				
SB119-05	3/9/2007	4-5			√				
SB120-01	3/9/2007	0-1			√				
SB121-01	3/9/2007	0-1	√						

Notes:
EPA - United States Environmental Protection Agency
ft bls - feet below land surface
TCL - Target Compound List

Table D-5
Phase III Groundwater Analytical Program

Remedial Investigation/Feasibility Study
Potential Source of Contamination 47
Naval Air Station Jacksonville
Jacksonville, Florida

Well Identification Number JAX47-	Date Sampled	Analysis/Method						
		TCL VOCs	TCL SCOCs	TCL Pesticides	Arsenic	Arsenic Speciation	TSS	TDS
		EPA 8260B	EPA 8270C	EPA 8081A	EPA 6010B	HPLC-HG-AFS	EPA 160.2	EPA 160.1
MW-10S	11/30/2006	√	√	√	√			
MW-11S	12/1/2006	√	√	√	√			
MW-11D	12/1/2006	√	√	√	√			
MW-12S	12/8/2006	√	√	√	√			
MW-13S	12/1/2006	√	√	√	√			
MW-13D	12/1/2006	√	√	√	√			
MW-14S	12/8/2006	√	√	√				
MW-14D	12/1/2006	√	√	√	√			
MW-15S	11/29/2006	√	√	√	√			
MW-15D	11/29/2006	√	√	√	√			
MW-16S	12/5/2006	√	√	√	√			
MW-16D	12/5/2006	√	√	√	√			
MW-17S	12/5/2006	√	√	√	√			
MW-17D	12/5/2006	√	√	√	√			
MW-18S	11/30/2006	√	√	√	√			
MW-18D	11/30/2006	√	√	√	√			
MW-19S	12/5/2006	√	√	√	√			
MW-20S	11/30/2006	√	√	√	√			
MW-23S	12/5/2006	√	√	√	√			
MW-24D	12/5/2006	√	√	√	√			
MW-25S	12/8/2006	√	√	√	√			
MW-26S	12/8/2006	√	√	√	√			
MW-27S	11/30/2006	√	√	√	√			
MW-28S	12/8/2006	√	√	√	√			
MW-29S	3/9/2007	√	√	√	√			
MW-30S	3/9/2007	√	√	√	√			
MW-31D	3/9/2007	√	√	√	√			
JAX-937-								
MW-01S	11/29/2006	√	√	√	√			
MW-02S	11/30/2006	√	√	√	√			
	4/3/2007				√	√	√	√
MW-03S	11/29/2006	√	√	√	√			
	4/3/2007				√	√	√	√
MW-04S	12/1/2006	√	√	√	√			
	4/3/2007				√	√	√	√
MW-05S	11/29/2006	√	√	√	√			
	4/3/2007				√	√	√	√
MW-06D	11/30/2006	√	√	√	√			
JAX-47-								
USGS (S)	11/29/2006	√	√	√	√			

Notes:
EPA - United States Environmental Protection Agency
TCL - Target Compound List
Monitoring well JAX47-536-MW03S was dry and therefore not sampled.TCL - Target Compound List

APPENDIX E

SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

E.1 Soil Boring Logs
E.2 Monitoring Well Diagrams

APPENDIX E.1

Soil Boring Logs

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966 ~~HY0050119~~ HY0050119
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBILE DRILL B-57
BORING NUMBER: JAX-47-SB10S
DATE: 3.20.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.7			LIMEROCK ROADBASE						
							SAND fine/v. fine; pale brown-yellow						
				8			CLAYEY SILTY SAND; v. fine; brown-orange						
				10			SAND, fine & v. fine; lt. brown-orange						
				15			15.0' = EOB						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 3.7

Remarks:

Converted to Well: Yes ✓ No ____ Well I.D. #: JAX-47-MW10S

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966 ~~HY0050119~~ HY0050115
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB118
DATE: 3.18.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.3			GRASS/ROOTS/SANDY TOPSOIL						
							SAND, v. fine; pale yellow becoming off white.						
				6			SAND w/some clay; v. fine; yellow-orange, brown						
				10			SAME AS '6-10', brown-orange						
				15			EOB = 15' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 4.3

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW115

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966 HY0050~~119~~ 115
DRILLING COMPANY: Ambient
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JA-47-SB11D
DATE: 3.20 & 3.22.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	33.5						Starting depth						
	35.5		6"			Brn Gry	Fine Sand						
	37.5		2'			Orang Gry	Clayey Fine Sand in upper	8"					
	@ 39.5					Grn	Fine Sand						
	39.5	80	2'	1.5'		Dk Gry	1.5 8' Clay						
				1.5'		Brn Gry	Sand						
	41.5	75	1.5'										
	46						TOP OF WEATHERED						
							LIMESTONE						
	61												
							CALCAREOUS CLAY						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 2.8

Remarks:

Converted to Well: Yes X No _____ Well I.D. #: JAX47-MW~~OP~~ 11D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~11Y0050119~~ HY0050115
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB125
DATE: 3.18.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							SAND; fine, v.fine; lt. yellow brown						
				4									
							SAND w/ some clay; fine, v.fine; orange-brown, orange-yellow, pale yellow, lt orange-brown						
				15			EOB = 15' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.7

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: JAX-47-MW125

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~11Y0650119~~ HY0050119
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB135
DATE: 3-19-02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.1			ASPHALT						
				1.0			SAND, fill, v. brown, gray						
							SAND, fine, v. fine; pale yel. brown						
				3									
							SAND, fine, v. fine; orange. brown						
				15			EOB = 15'						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 3.9

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: JAX-47-MW135

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966 ~~HY0050119~~ HY0050115
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB13D
DATE: 3.19.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							SEE BORING LOG for JAX-47-SB13S for description 0-15' bls						
				15			↑ SAND, v. fine, tan ↓						
				41			CLAY SAND / SANDY CLAY; fine, v. fine; olive green						
				45			CLAY; grey						
				48			CLAYEY LIMESTONE						
				50			EOB = 50' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 4.3

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW13D

Tetra Tech NUS, inc.

BORING LOG

Page 1 of 1

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~HY0050119~~ HY0050115
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB14D
DATE:
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.3			GRASS/ROOTS/SANDY TOPSOIL						
				4.0			SAND, fine, v. fine; yel. brown						
							SAND & CLAY in varying proportions; predominantly Sand. Limited resolution; Mud rotary drilling, no split spoons in this interval						
				38									
					Split Spoon		SAND; fine; v. fine gray						
			Split Spoon	40			SAND, AA, w/ trace clay						
			Split Spoon	42			AA						
			Split Spoon	44									
				45									
				46			CLAYEY SANDY SILT; v. fine; dk greenish gray; stiff						
				48			~~TOP LIMESTONE~~ EOB = 48' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 3.8

Remarks:

Converted to Well: Yes ✓ No ____ Well I.D. #: JAX-47-MW14D

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966 ~~HY0050119~~ HY0050115
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBILE DRILL B-57
BORING NUMBER: JAX-47-SB155
DATE: 3.20.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.5			GRASS/ROOTS/SANDY TOPSOIL						
							SAND; fine, v. fine; lt brown/gray						
				2.5			SAND; FINE; V. FINE; SOME CLAY & SILT; yel-gray OR BR						
				3.5			SAND, fine, v. fine, lt. yel. brown.						
				6			CLAYEY SAND, v. fine, lt. yel. brown						
				9									
							SILTY SAND; v. fine, lt yel. brown						
				13.5			EOB = 13.5' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 2.7

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW155

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~11Y0650119~~ HY0050119
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB15D
DATE: 3.26.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							SEE SOIL BORING LOG FOR JAX-47-SB15S for 0-13.5' bls DESCRIPTION						
				13.5									
							SAND & CLAY in varying proportions predominantly sand; IRRESOLUTE; mud rotary drilling, no split spoons in this interval.						
				42.5			SAND w/some clay; fine, med; lt green gray		SPLIT SPOON				
				44.5			SAND, med; tan		SPLIT SPOON				
				46.5			~~CLAYEY SAND / SANDY CLAY~~						
				47.0			~~TOP OF LIMESTONE~~						
							EOB = 47.5' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 4.7

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW15D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966 ~~HY0050119~~ HY0050115
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB165
DATE: 3·20·02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.3			GRASS/ROOTS/SANDY TOPSOIL; gry						
							SAND; fine, v·fine; orange-brown becoming pale yel·brown at 1' and tan at 4' bls						
				8			SAND w/ some silt; v. fine; lt brown-yel becoming orange-brown at 11.5' bls						
				13.5			EOB = 13.5' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 3·3

Remarks:

Converted to Well: Yes ✓ No ____ Well I.D. #: JAX-47-MW165

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~HY005011S~~ HY005011S
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB16D
DATE: 3-28-02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							SEE SOIL BORING LOG FOR JAX-47-SB16S for 0-13.5' bls description						
				13.5			SAND & CLAY in varying proportions; mostly sand; mud rotary drilling; no split spoons in this interval.						
				39.5			SAND w/ trace clay; fine/med;		Split spoon				
				41.5			CLAY w/ some SAND; green-gray		split spoon				
				43.5			SANDY CLAY; gray green; tan CLAYEY SAND w/ COARSE ANGULAR GRAINS; DK. GRAY		split spoon				
				45.5			CLAY; gray-GREEN & TAN WEATHERED LIMESTONE (45' bls)		split spoon				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 2.8

Remarks: _____

Converted to Well: Yes ✓ No _____ Well I.D. #: JAX-47-MW16D

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966 ~~HY0650119~~ HY0050119
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB17S
DATE: 3.20.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.3 =			ASPHALT						
				0.5 =			ROAD BASE						
							SAND; fine & v. fine; orange-brown becoming tan						
				11.5			SANDY SILTY CLAY; v. fine; pale greenish tan						
				13.0			EOB = 13.0' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 4.3

Remarks: _____

Converted to Well: Yes ✓ No _____ Well I.D. #: JAX-47-MW17S

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~11Y0050119~~ HY0050119
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB17D
DATE: 3.25.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							SEE SOIL BORING LOG						
							for JAX-47-SB17S						
							for 0-13.0' bls						
							DESCRIPTION						
				13.0			↑						
							SAND & CLAY in varying						
							proportions; mud						
							rotary drilling .. no						
							split spoons in this						
				28.5			interval ↓						
							CLAY		split spoon				
				30.5			SAND w/ some clay; tan · y.or.						
							CLAYEY SAND; gray · tan		split spoon				
				32.5			SAND/fm/tan · y/or. lt brn						
				34.5			CLAYEY SAND/M/br. gray		split spoon				
				36.5			SAND/f-M/gray & tan		split spoon				
				38.5			SAND w/ some clay; fm/tan gray		split spoon				
				40.5			As Above; tan & gray		split spoon				
							SILTY SAND/vfl stiff		split spoon				
							SILTY SANDY CLAY w/ COARSE ANGULAR GRAINS; GRAY						
				42.5			CLAYEY SAND; COARSE		split spoon				
				44.0			CALCAREOUS CLAY w/ SAND						
				44.5			— TOP OF LIMESTONE —						
							(44 · bls)		Lost circu-				
							WEATHERED LIMESTONE		lation at 51'				
				51			EOB = 51' bls		bls				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 3.4

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW17D

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966 ~~HY005011S~~ HY005015
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB18S
DATE: 3·19·02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.6			TOPSOIL W/ GRASS · ROOTS; GRAY						
							SAND; fine · v. fine, lt yel. brown becoming lt gray (1.2' bls), lt tan (2' bls); dk brown, yel. brown, tan (3' bls)						
				14.0			EOB = 14' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 3·3

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW18S

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~11Y0050119~~ HY0050115
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB18D
DATE: 3-28-02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							SEE SOIL BORING						
							LOG for JAX-47-						
							MW18S for 0-14'						
							bls DESCRIPTION						
				14.0									
							SAND & CLAY in varying						
							proportions; mud						
							rotary drilling; no						
							split spoons in						
							this interval						
				40.5			SAND w/ trace clay		SPLIT SPOON				
				42.5			f-m / gray						
							As ABOVE; CLAY CONTENT		SPLIT SPOON				
				44.5			INCREASING W/DEPTH						
							SANDY CLAY; gray;		SPLIT SPOON				
				46.5			SAND COMPONENT v. fine						
							SANDY CLAY w/ SILT: gray		SPLIT SPOON				
				48.0			– TOP OF LIMESTONE (48' bls)						
				48.5									
							EOB = 47' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 2.3

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW18D

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~11Y0050119~~ HY0050115
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB19S
DATE: 3.18.02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.2			TOPSOIL w/ GRASS & ROOTS; SAND; GRAY						
							SAND; v. fine; pale brownish yellow becoming tan at 3' bls						
				11.0			CLAYEY SILTY SAND; STIFF; grayish tan w/ black mus; v. fine						
				13.0			EOB = 13.0' bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 4.1

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW19S

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: CTO 162 / Pesticide Shop
PROJECT NUMBER: N3966~~11Y0050119~~ HY0050119
DRILLING COMPANY: Ambient (ATI)
DRILLING RIG: MOBIL DRILL B-57
BORING NUMBER: JAX-47-SB205I
DATE: 3-21-02
GEOLOGIST: L. KNIGHT
DRILLER: LEWIS JOHNSON

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0.6			TOPSOIL/SAND w/grass. roots; grey						
							SAND/fine; MED/tan to off-white						
				7.0			SILTY SAND/v. fine/; orange. brown & pale yellow. orange						
				19.0			CLAY; GRN. STIFF						
				22.0			SAND/MED/TAN						
				25			EOB = 25.5'bls						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks: _____

Converted to Well: Yes ✓ No ___ Well I.D. #: JAX-47-MW205

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: N3966
PROJECT NUMBER:
DRILLING COMPANY: ParTBridge
DRILLING RIG:

BORING NUMBER: JAX-47-MW21s
DATE: 11-4-02
GEOLOGIST: A. Pate
DRILLER: M. Nicholson

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							Medium-Fine Sand						0
				10			Silty Sand from						
				12 EOB									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes N/A No ✓ Well I.D. #: N/A

★ Temporary

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N3966
DRILLING COMPANY: Partridge
DRILLING RIG:

BORING NUMBER: Jax47-MW22D
DATE: 11-4-02
GEOLOGIST: A. Pate
DRILLER: M. Nicholson

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
													0
				10									
							Med-Fine, Lt Brwn To Lt. Gray Sand						
				20									
				25'									
				30									
				40			SITs beginning to appear, same lithology as above						
				46.5			Limestone Layer at approx 46.5'						
							EOB						
				50									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: Jax47-MW22D

☆ Temporary well

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N3966
DRILLING COMPANY: ParTridge
DRILLING RIG:

BORING NUMBER: JAX47-MW23s
DATE: 11-4-02
GEOLOGIST: A. Pate
DRILLER: M. Nicholson

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
							LT. Gray						
							Med-Fine Sand						
				4									0
							LT. Brown						
							Silty Sand						
				8									
							LT. Brown						
							Silty Sand						
				15									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No

Well I.D. #: Jax47-MW23s

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N3966
DRILLING COMPANY: Partridge
DRILLING RIG:

BORING NUMBER: Jax 47-MW 24D
DATE: 11-5-02
GEOLOGIST: A. Pate
DRILLER: ~~M. Nicholson~~ J. Weatherford

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
							med-fine						
				4'			Lt. Gray Sands						
							reddish brwn, med-fine						
				10'			Sand w/silts						0
				20'									
				30'									
							Lt. Gray to Lt Brwn						
				40'			med-fine Sand w/silts						
				45'			Limestone Rock						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): [ ]

Remarks:

Converted to Well: Yes X No ____ Well I.D. #: Jax 47-MW 24D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: PSC 47
PROJECT NUMBER: N3966.
DRILLING COMPANY: PalTridge
DRILLING RIG:

BORING NUMBER: Jax 47-MW25s
DATE: 11-4-02
GEOLOGIST: A. Pate
DRILLER: M. Nicholson

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
				4			Lt. Gray Med-Fine Sand						0
				14			Reddish brown Silty Sand						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): ☐

Remarks:

Converted to Well: Yes ✓ No ____ Well I.D. #: Jax 47-MW25s

Tetra Tech NUS, Inc.

BORING LOG

power line

Page ___ of ___

PROJECT NAME: Pesticide Shop
PROJECT NUMBER: N3966
DRILLING COMPANY: Patridge Drilling
DRILLING RIG: DPT / Hollow Stem

BORING NUMBER: JAX.47. MW 26
DATE: 1-15-03
GEOLOGIST: MF
DRILLER: Mike Nicholson

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0-4	Lt Brn/Blk		Silty fine sand					0	
				4-5	reddish		silty clayey sand					0	
				5-10	reddish		sandy clay (damp)					0	
				10-13	lt Brown		clayey sand (moist)					0	
												0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks: _____

Converted to Well: Yes X No _____ Well I.D. #: JAX.47.MW27

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: PSC 47
PROJECT NUMBER: ~~N3966~~ ~~40449~~ N3966
DRILLING COMPANY: Partridge
DRILLING RIG: hollow stem
BORING NUMBER: JAX.47.MW27
DATE: 1.15.03
GEOLOGIST: MLF
DRILLER: Mike Nicholson

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
				0-4		ltbrown	fine sand				0	0	
				4-5.5		orange	sandy clay				0	0	
				5.5-6.5		red	sandy silty clay	(damp)			0	0	
				6.5-10.0		red	clay	(dry)			0	0	
				10.0-13.0		ltBrown	silty sand	(moist)			0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks:

Converted to Well: Yes X No ___ Well I.D. #: JAX.47.MW27

APPENDIX E.2

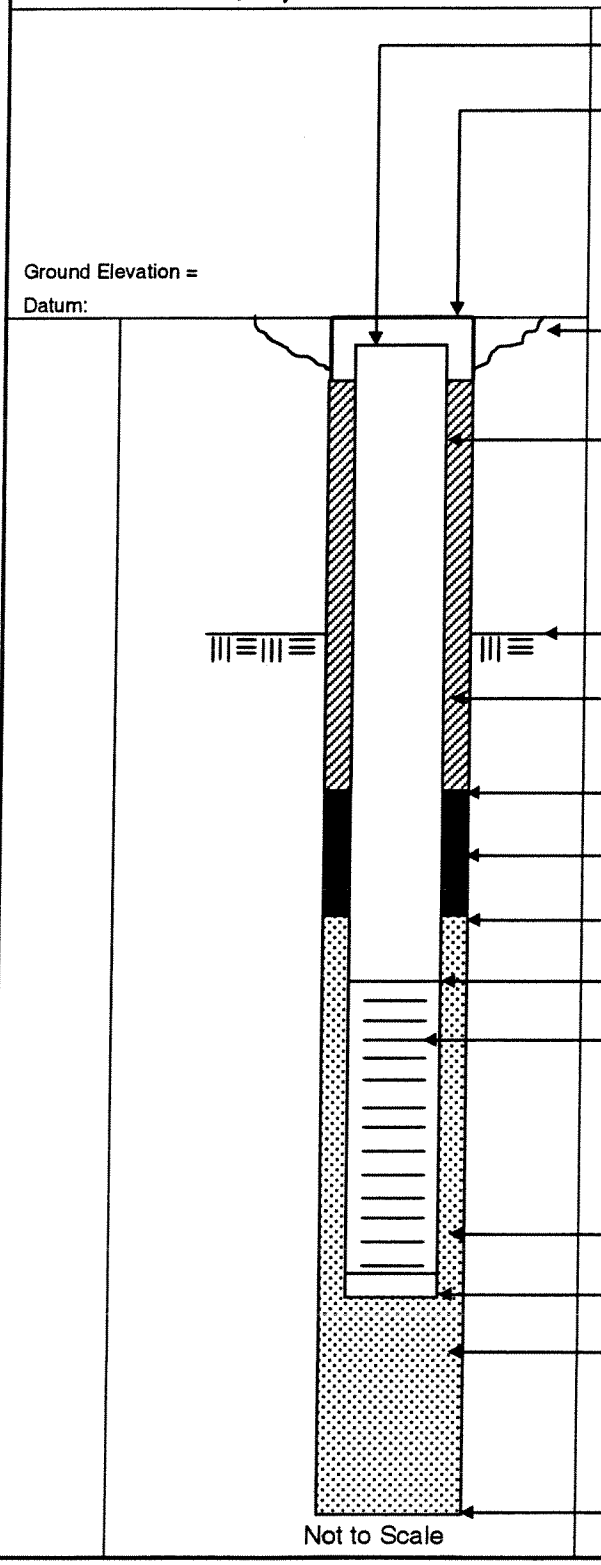
Monitoring Well Construction Diagrams

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-58-DPW~~ → JAX-47-MW10S

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW10S
PROJECT No.:	N3966 HY0050 ~~119~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3.20.02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	CENTRIFUGAL PUMP ~~Low Flow Purge~~	EASTING:	



Elevation / Depth of Top of Riser: 10.26'6/s

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 12" ~~8"~~

Type of Surface Casing: SS Manhole

Type of Surface Seal: Quickrete

I.D. of Riser: 2" ~~4"~~

Type of Riser: PVC

Borehole Diameter: ~~8" 4"~~ 8-inch

Elevation / Depth Top of Rock: 1 NA

Type of Backfill: ~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT

Elevation / Depth of Seal: 1 1.5

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 12.5

Elevation / Depth of Top of Screen: 14.5

Type of Screen: PVC Sch 40 Prepacked

Slot Size x Length: 0.010" x 10'

I.D. of Screen: ~~4" / 1.66"~~ 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 1 14.5

Elevation / Depth of Bottom of Filter Pack: 1 15.0

Type of Backfill Below Well:

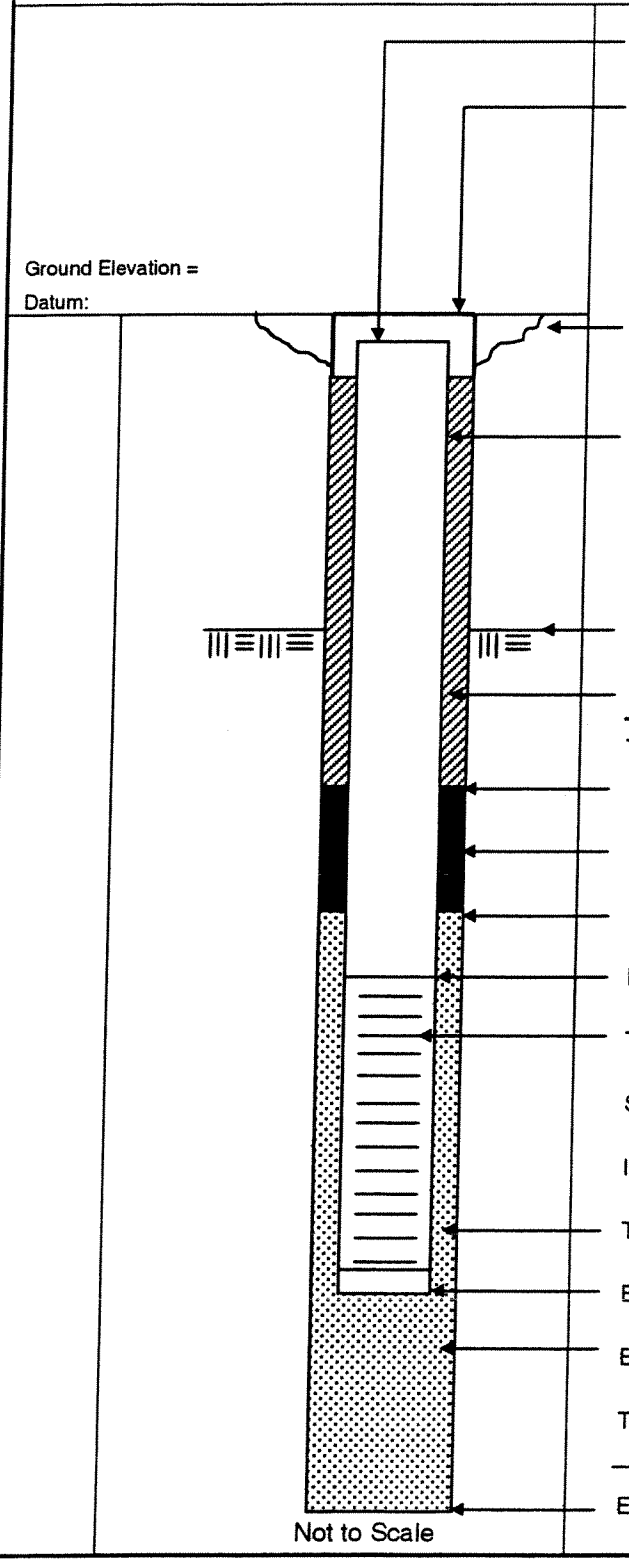
Elevation / Total Depth of Borehole: 1 15.0

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-SS-DPW~~ → JAX-47-MW11S

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW11S
PROJECT No.:	N3966 HY0050 ~~115~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3.18.02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	CENTRIFUGAL PUMP ~~Low Flow Purge~~	EASTING:	



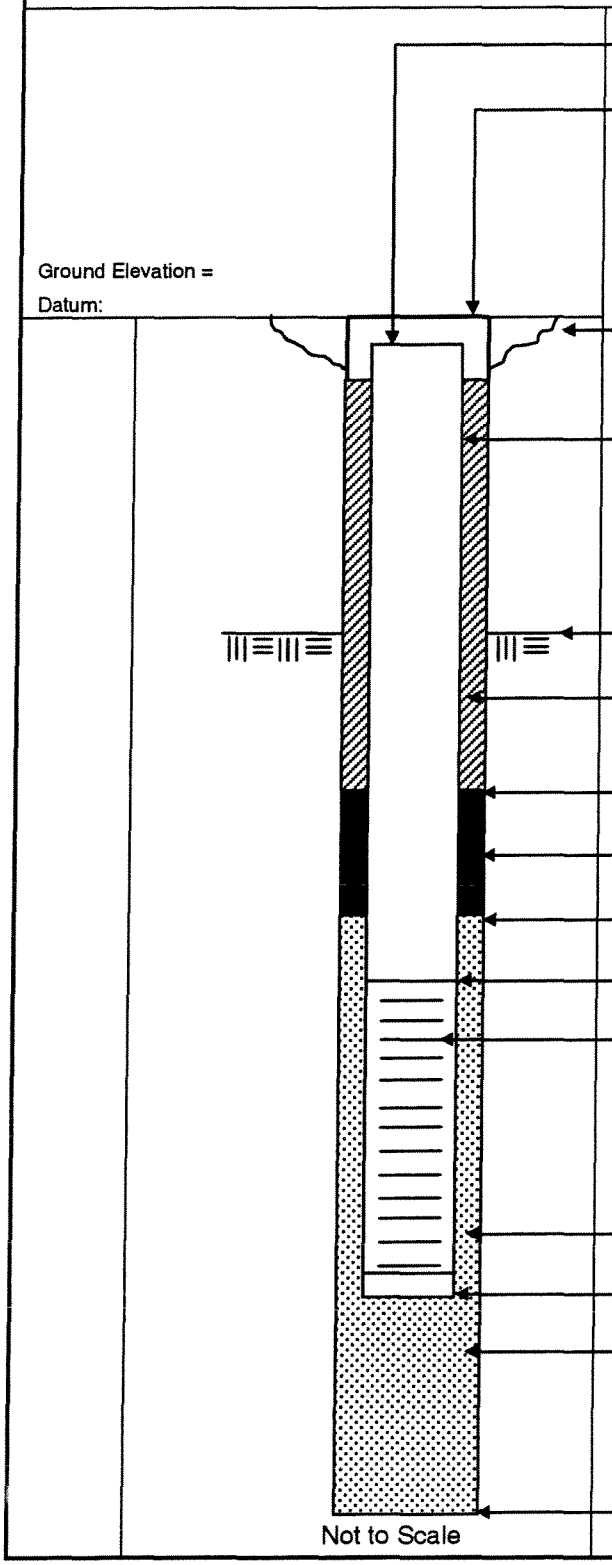
Elevation / Depth of Top of Riser:	10.2'bls
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	12" ~~8"~~
Type of Surface Casing:	SS Manhole
Type of Surface Seal:	Quickrete
I.D. of Riser:	2"
Type of Riser:	PVC
Borehole Diameter:	~~8"~~ 8-inch
Elevation / Depth Top of Rock:	1 NA
Type of Backfill:	~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal:	11.0
Type of Seal:	30/65 Sand
Elevation / Depth of Top of Filter Pack:	12.0
Elevation / Depth of Top of Screen:	14.5
Type of Screen:	PVC Sch 40 Prepacked
Slot Size x Length:	0.010" x 10'
I.D. of Screen:	~~1"~~ 1.66" 2"
Type of Filter Pack:	20/30 Sand
Elevation / Depth of Bottom of Screen:	14.5
Elevation / Depth of Bottom of Filter Pack:	15.0
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	15.0

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-53-DPW~~ JAX-47-MW11D

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	~MW11D
PROJECT No.:	N3966 HY0050~~119~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3-22-02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ MR	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	SUBMERSIBLE PUMP ~~Low Flow Purge~~	EASTING:	



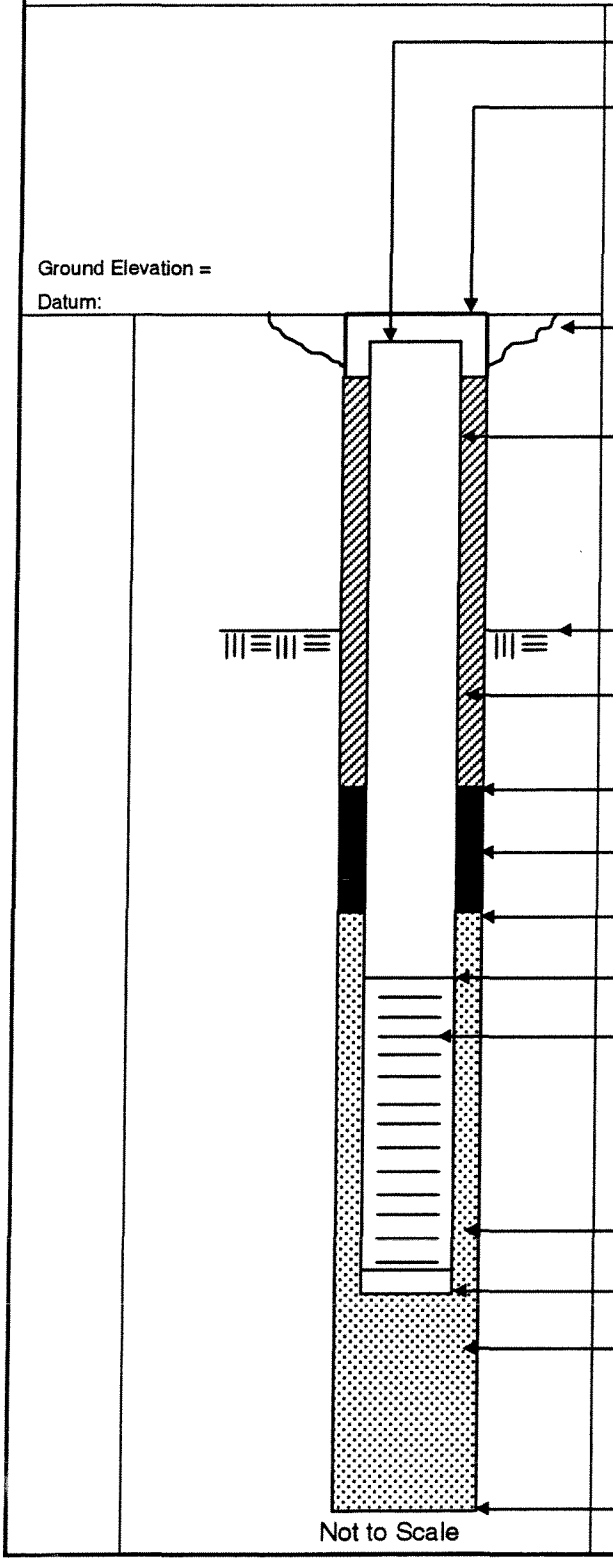
Elevation / Depth of Top of Riser:	10.26
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	12" ~~8"~~
Type of Surface Casing:	SS Manhole
Type of Surface Seal:	Quickrete
I.D. of Riser:	2" ~~4"~~
Type of Riser:	PVC
Borehole Diameter:	~~8~~ 6"
Elevation / Depth Top of Rock:	1 NA
Type of Backfill:	~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal:	146.0
Type of Seal:	30/65 Sand
Elevation / Depth of Top of Filter Pack:	148.0
Elevation / Depth of Top of Screen:	150.0
Type of Screen:	PVC Sch 40 Prepacked
Slot Size x Length:	0.010" x 10'
I.D. of Screen:	~~1" / 1.66"~~ 2"
Type of Filter Pack:	20/30 Sand
Elevation / Depth of Bottom of Screen:	160.0
Elevation / Depth of Bottom of Filter Pack:	160.5
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	160.5

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-SS-DPW~~ JAX-47-MW125

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW125
PROJECT No.:	N3966 HY0050~~119~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3-18-02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	~~Low Flow Purge~~ SUBMERSIBLE PUMP	EASTING:	



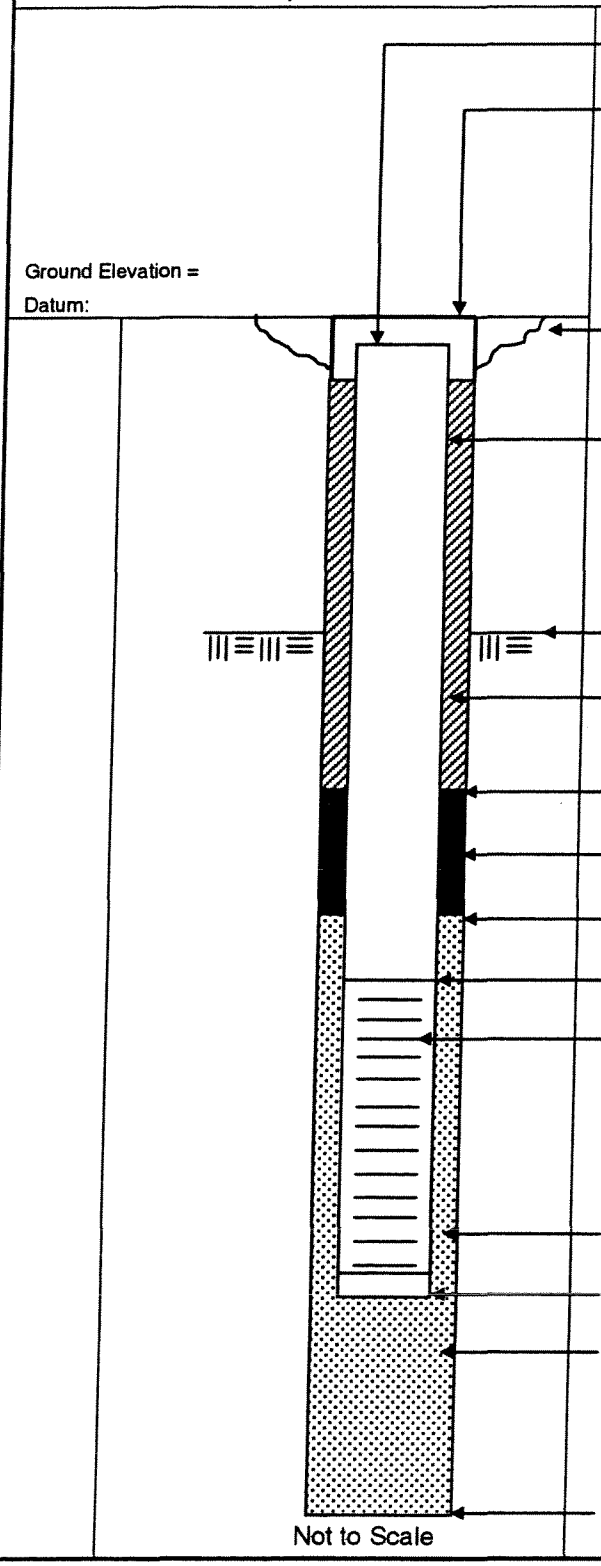
Elevation / Depth of Top of Riser:	10.2' bls
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	12" ~~8"~~
Type of Surface Casing:	SS Manhole
Type of Surface Seal:	Quickrete
I.D. of Riser:	2" ~~4"~~
Type of Riser:	PVC
Borehole Diameter:	~~2"~~ 8-inch
Elevation / Depth Top of Rock:	1 NA
Type of Backfill:	~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal:	11.0
Type of Seal:	30/65 Sand
Elevation / Depth of Top of Filter Pack:	12.0
Elevation / Depth of Top of Screen:	14.5
Type of Screen:	PVC Sch 40 Prepacked
Slot Size x Length:	0.010" x 10'
I.D. of Screen:	~~1"/1.66"~~ 2"
Type of Filter Pack:	20/30 Sand
Elevation / Depth of Bottom of Screen:	114.5
Elevation / Depth of Bottom of Filter Pack:	115.0
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	115.0

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-58-DPW~~ → JAX-47-MW13S

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW13S
PROJECT No.:	N3966 HY0050 ~~115~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3·19·02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	CENTRIFUGAL PUMP ~~Low Flow Purge~~	EASTING:	



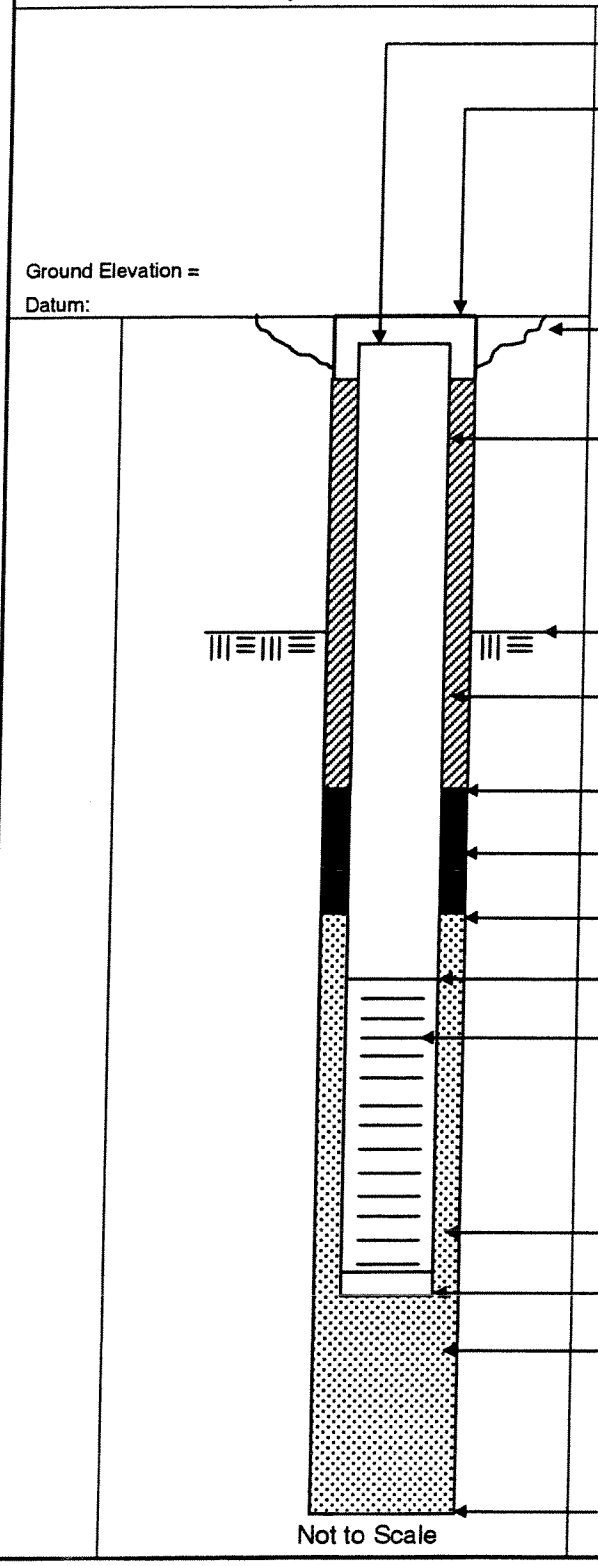
Elevation / Depth of Top of Riser:	10.26'bls
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	12" ~~8"~~
Type of Surface Casing:	SS Manhole
Type of Surface Seal:	Quickrete
I.D. of Riser:	2" ~~4"~~
Type of Riser:	PVC
Borehole Diameter:	~~8"~~ 8-inch
Elevation / Depth Top of Rock:	1 NA
Type of Backfill:	~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal:	1
Type of Seal:	30/65 Sand
Elevation / Depth of Top of Filter Pack:	110
Elevation / Depth of Top of Screen:	112.5
Type of Screen:	PVC Sch 40 Prepacked
Slot Size x Length:	0.010" x 10'
I.D. of Screen:	~~1" / 1.66"~~ 2"
Type of Filter Pack:	20/30 Sand
Elevation / Depth of Bottom of Screen:	114.5
Elevation / Depth of Bottom of Filter Pack:	115.0
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	115.0

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-58-DPW~~ → JAX-47-MW13D

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW13D
PROJECT No.:	N3966 HY0050 ~~115~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3·19·02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	CENTRIFUGAL PUMP ~~Low Flow Purge~~	EASTING:	



Elevation / Depth of Top of Riser:	10.26'6/s
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	12" ~~8"~~
Type of Surface Casing:	SS Manhole
Type of Surface Seal:	Quickrete
I.D. of Riser:	2" ~~4"~~
Type of Riser:	PVC
Borehole Diameter:	~~8"~~ 8-inch
Elevation / Depth Top of Rock:	1 NA
Type of Backfill:	~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal:	135.0
Type of Seal:	30/65 Sand
Elevation / Depth of Top of Filter Pack:	137.0
Elevation / Depth of Top of Screen:	139.0
Type of Screen:	PVC Sch 40 Prepacked
Slot Size x Length:	0.010" x 10'
I.D. of Screen:	~~4" / 1.66"~~ 2"
Type of Filter Pack:	20/30 Sand
Elevation / Depth of Bottom of Screen:	149.0
Elevation / Depth of Bottom of Filter Pack:	150.0
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	150.0

Tetra Tech NUS, Inc.

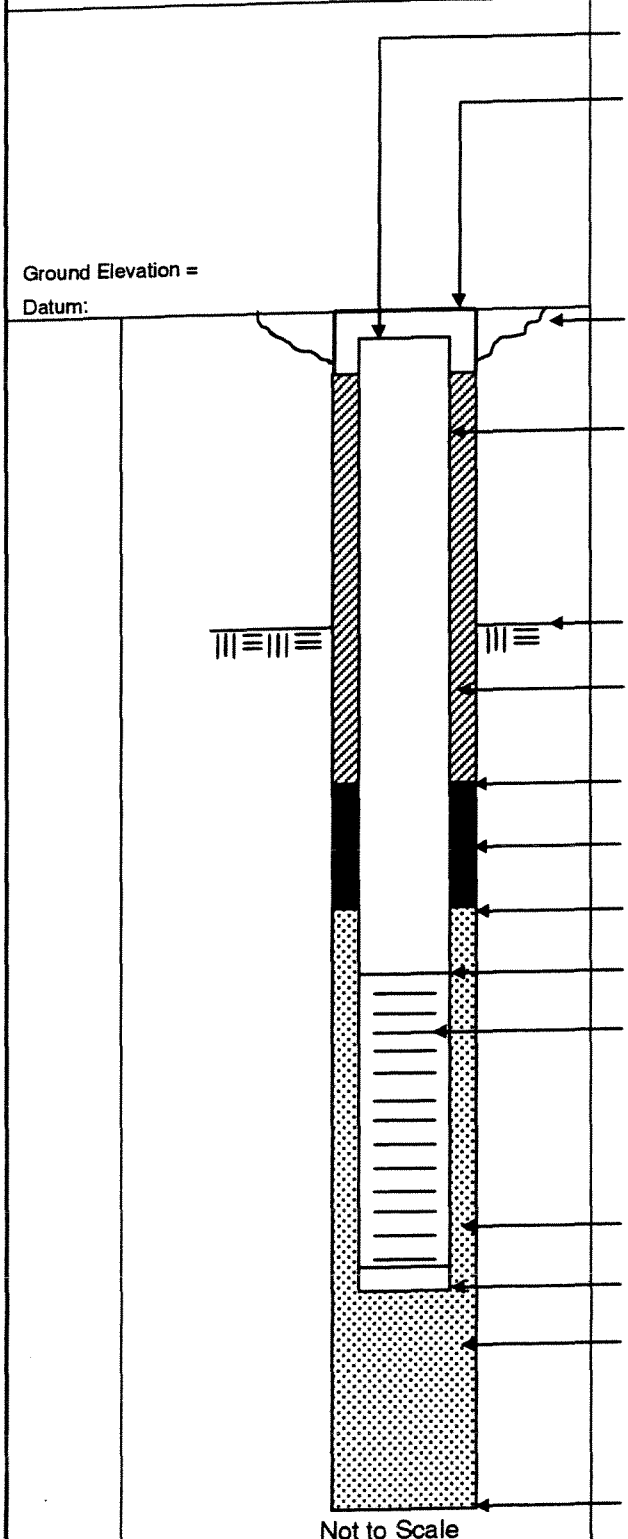
WELL No.: ~~MPT-53 DPW~~ JAX. 47-MW14D

MONITORING WELL SHEET

PROJECT: CTO 162
PROJECT No.: N3966 HY0050 ~~115~~ 119
SITE: NAS Jacksonville
GEOLOGIST: L. KNIGHT

DRILLING Co.: Ambient (ATI)
DRILLER: LEWIS JOHNSON
DRILLING METHOD: ~~Direct Push~~ MR
DEV. METHOD: SUBMERSIBLE PUMP ~~Low Flow Purge~~

BORING No.: -MW14D
DATE COMPLETED: 3-27-02
NORTHING:
EASTING:



Elevation / Depth of Top of Riser: 10.26
Elevation / Height of Top of Surface Casing: 1
I.D. of Surface Casing: 12" ~~8"~~
Type of Surface Casing: SS Manhole
Type of Surface Seal: Quickrete

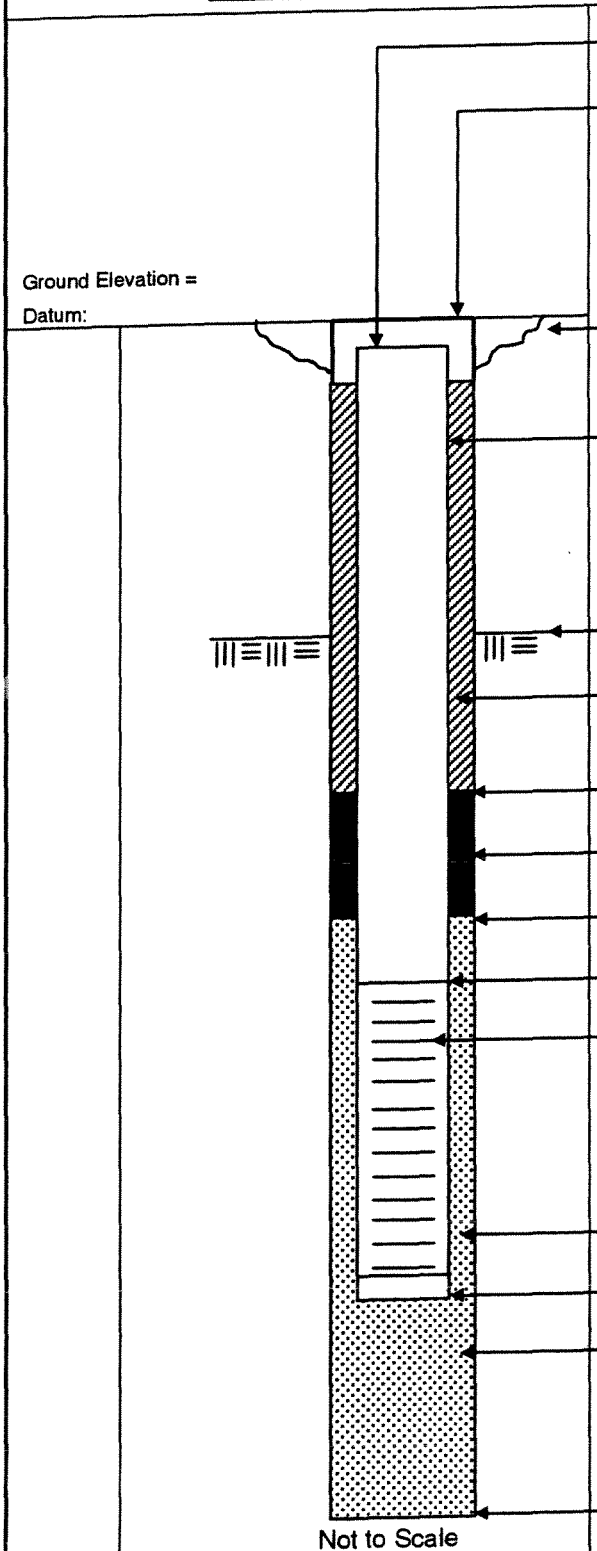
I.D. of Riser: 2" ~~4"~~
Type of Riser: PVC
Borehole Diameter: ~6"
Elevation / Depth Top of Rock: 1 NA
Type of Backfill: ~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal: 137.0
Type of Seal: 30/65 Sand
Elevation / Depth of Top of Filter Pack: 139.5
Elevation / Depth of Top of Screen: 142.5
Type of Screen: PVC Sch 40 Prepacked
Slot Size x Length: 0.010" x 10'
I.D. of Screen: ~~1" / 1.66"~~ 2"
Type of Filter Pack: 20/30 Sand
Elevation / Depth of Bottom of Screen: 147.5
Elevation / Depth of Bottom of Filter Pack: 148.0
Type of Backfill Below Well:
Elevation / Total Depth of Borehole: 148.0

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-SS-DPW~~ JAX-47-MW15S

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW15S
PROJECT No.:	N3966 HY0050 ~~116~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3.20.02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	~~Low Flow Purge~~ SUBMERSIBLE PUMP	EASTING:	



Elevation / Depth of Top of Riser:	10.2' bls
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	12" 8"
Type of Surface Casing	SS Manhole
Type of Surface Seal:	Quickrete
I.D. of Riser:	2"
Type of Riser:	PVC
Borehole Diameter:	~~2~~ 8-inch
Elevation / Depth Top of Rock:	/ NA
Type of Backfill:	~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal:	11.0
Type of Seal:	30/65 Sand
Elevation / Depth of Top of Filter Pack:	11.5
Elevation / Depth of Top of Screen:	13.0
Type of Screen:	PVC Sch 40 Prepacked
Slot Size x Length:	0.010" x 10'
I.D. of Screen:	~~1" / 1.66"~~ 2"
Type of Filter Pack:	20/30 Sand
Elevation / Depth of Bottom of Screen:	13.0
Elevation / Depth of Bottom of Filter Pack:	13.5
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	13.5

Tetra Tech NUS, Inc.

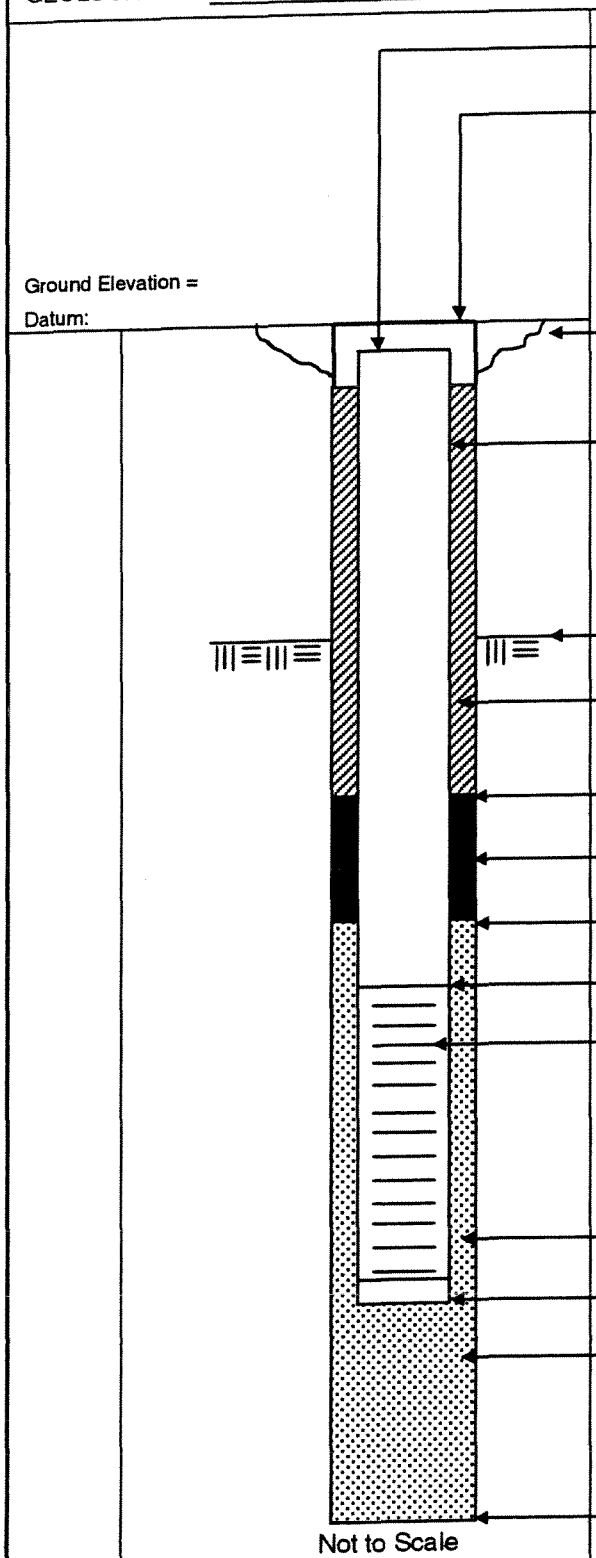
WELL No.: ~~MPT-53-DPW~~ JAX-47-MW15D

MONITORING WELL SHEET

PROJECT: CTO 162
PROJECT No.: N3966 HY0050 ~~119~~ 115
SITE: NAS Jacksonville
GEOLOGIST: L. KNIGHT

DRILLING Co.: Ambient (ATI)
DRILLER: LEWIS JOHNSON
DRILLING METHOD: ~~Direct Push~~ MR
DEV. METHOD: SUBMERSIBLE PUMP ~~Low Flow Purge~~

BORING No.: -MW15D
DATE COMPLETED: 3-26-02
NORTHING:
EASTING:



Elevation / Depth of Top of Riser: 10.26
Elevation / Height of Top of Surface Casing: 1
I.D. of Surface Casing: 12" ~~8"~~
Type of Surface Casing: SS Manhole
Type of Surface Seal: Quickrete
I.D. of Riser: 2" ~~4"~~
Type of Riser: PVC
Borehole Diameter: ~~8"~~ 6"
Elevation / Depth Top of Rock: 1 NA
Type of Backfill: ~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal: 137.0
Type of Seal: 30/65 Sand
Elevation / Depth of Top of Filter Pack: 139.0
Elevation / Depth of Top of Screen: 142.0
Type of Screen: PVC Sch 40 Prepacked
Slot Size x Length: 0.010" x 10'
I.D. of Screen: ~~1" / 1.66"~~ 2"
Type of Filter Pack: 20/30 Sand
Elevation / Depth of Bottom of Screen: 147.0
Elevation / Depth of Bottom of Filter Pack: 147.5
Type of Backfill Below Well:
Elevation / Total Depth of Borehole: 147.5

Tetra Tech NUS, Inc.

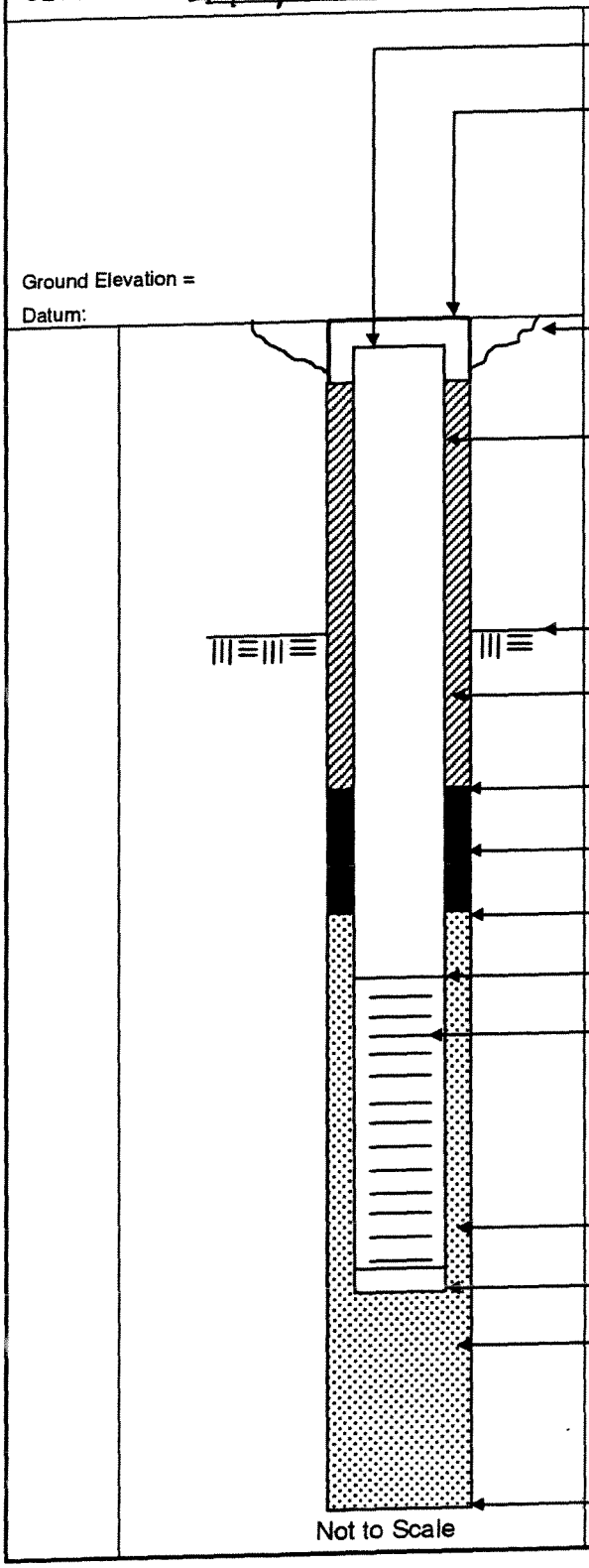
WELL No.: ~~MPT-58-DPW~~ → JAX-47-MW16S

MONITORING WELL SHEET

PROJECT: CTO 162
PROJECT No.: N3966 HY0050 ~~115~~ 115
SITE: NAS Jacksonville
GEOLOGIST: L. KNIGHT

DRILLING Co.: Ambient (ATI)
DRILLER: LEWIS JOHNSON
DRILLING METHOD: ~~Direct Push~~ HSA
DEV. METHOD: CENTRIFUGAL PUMP ~~Low Flow Purge~~

BORING No.: -MW16S
DATE COMPLETED: 3.20.02
NORTHING:
EASTING:



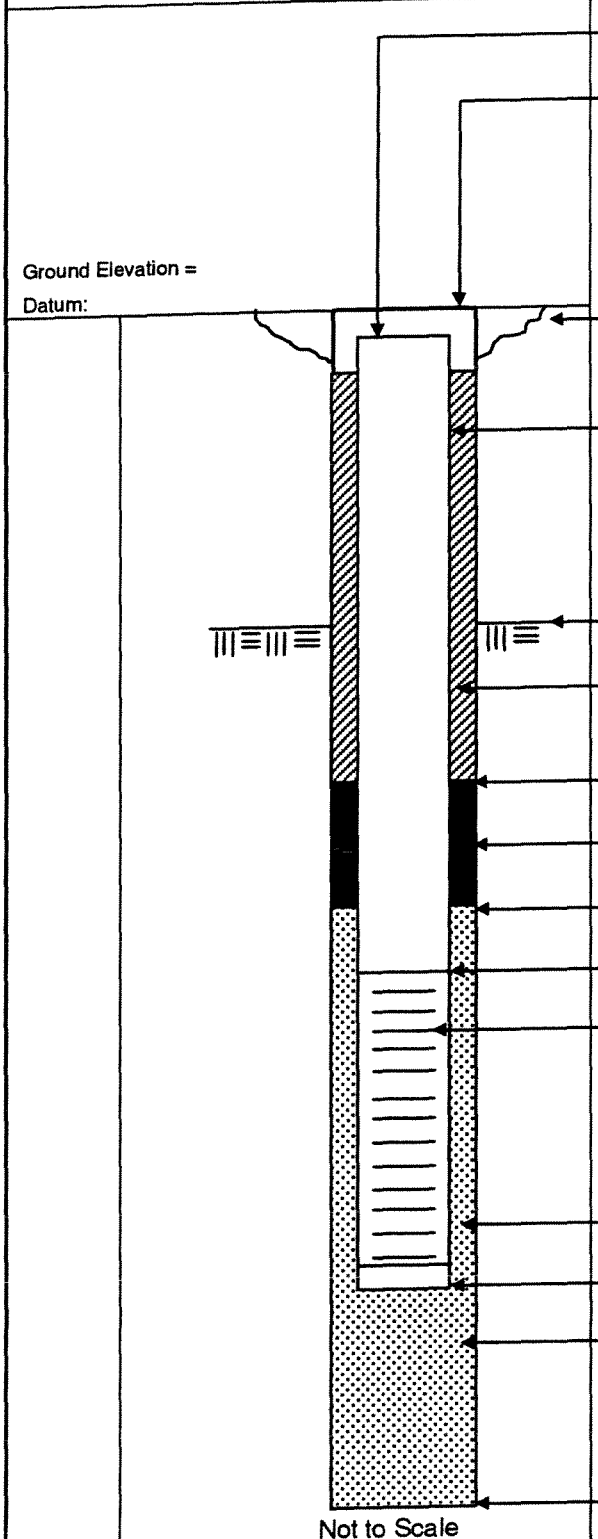
Elevation / Depth of Top of Riser: 10.26'bls
Elevation / Height of Top of Surface Casing: 1
I.D. of Surface Casing: 12" ~~8"~~
Type of Surface Casing: SS Manhole
Type of Surface Seal: Quickrete
I.D. of Riser: 2" ~~4"~~
Type of Riser: PVC
Borehole Diameter: ~~8"~~ 8-inch
Elevation / Depth Top of Rock: 1 NA
Type of Backfill: ~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal: 11.0
Type of Seal: 30/65 Sand
Elevation / Depth of Top of Filter Pack: 11.5
Elevation / Depth of Top of Screen: 13.0
Type of Screen: PVC Sch 40 Prepacked
Slot Size x Length: 0.010" x 10'
I.D. of Screen: ~~1"/1.66"~~ 2"
Type of Filter Pack: 20/30 Sand
Elevation / Depth of Bottom of Screen: 113.0
Elevation / Depth of Bottom of Filter Pack: 113.5
Type of Backfill Below Well:
Elevation / Total Depth of Borehole: 113.5

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-53-DPW~~ JAX-47-MW16D

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW16D
PROJECT No.:	N3966 HY0050 ~~119~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3-28-02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ MR	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	SUBMERSIBLE PUMP ~~Low Flow Purge~~	EASTING:	



Elevation / Depth of Top of Riser: 10.26

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 12" ~~8~~

Type of Surface Casing: SS Manhole

Type of Surface Seal: Quickrete

I.D. of Riser: 2" ~~4~~"

Type of Riser: PVC

Borehole Diameter: ~~8~~ 6"

Elevation / Depth Top of Rock: 1 NA

Type of Backfill: ~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT

Elevation / Depth of Seal: 132.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 134.0

Elevation / Depth of Top of Screen: 136.5

Type of Screen: PVC Sch 40 Prepacked

Slot Size x Length: 0.010" x 10'

I.D. of Screen: ~~1" / 1.66"~~ 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 141.5

Elevation / Depth of Bottom of Filter Pack: 142.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 142.0

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-SS-DPW~~ → JAX-47-MW17S

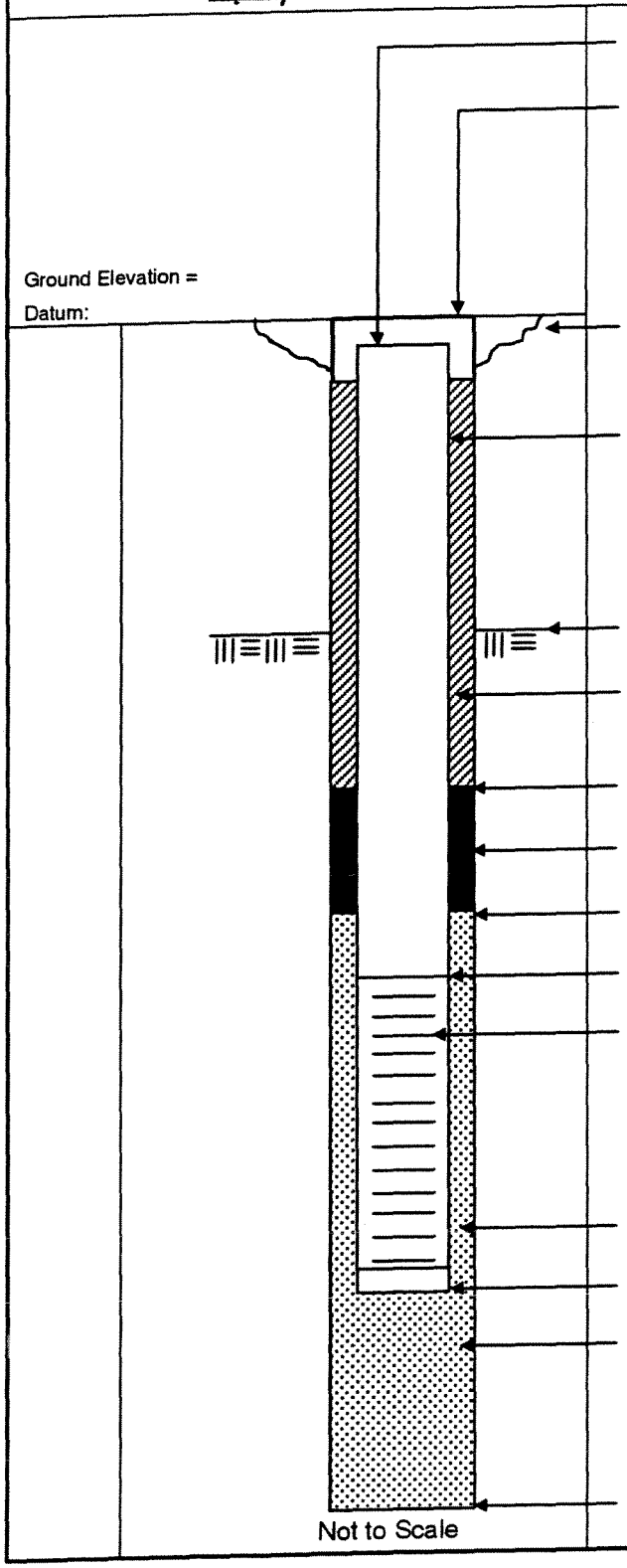
MONITORING WELL SHEET

PROJECT: CTO 162 | DRILLING Co.: Ambient (ATI) | BORING No.: -MW17S

PROJECT No.: N3966 HY0050 ~~115~~ 115 | DRILLER: LEWIS JOHNSON | DATE COMPLETED: 3-20-02

SITE: NAS Jacksonville | DRILLING METHOD: ~~Direct Push~~ HSA | NORTHING:

GEOLOGIST: L. KNIGHT | DEV. METHOD: CENTRIFUGAL PUMP ~~Low Flow Purge~~ | EASTING:



Elevation / Depth of Top of Riser: 10.26'6/5

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 12" ~~8"~~

Type of Surface Casing: SS Manhole

Type of Surface Seal: Quickrete

I.D. of Riser: 2" ~~4"~~

Type of Riser: PVC

Borehole Diameter: ~~8"~~ 8-inch

Elevation / Depth Top of Rock: 1 NA

Type of Backfill: ~~20/65 Sand~~ TYPE I PORTLAND CEMENT GROUT

Elevation / Depth of Seal: 10.5

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 11.0

Elevation / Depth of Top of Screen: 12.5

Type of Screen: PVC Sch 40 Prepacked

Slot Size x Length: 0.010" x 10'

I.D. of Screen: ~~1" / 1.66"~~ 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 112.5

Elevation / Depth of Bottom of Filter Pack: 113.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 113.0

Tetra Tech NUS, Inc.

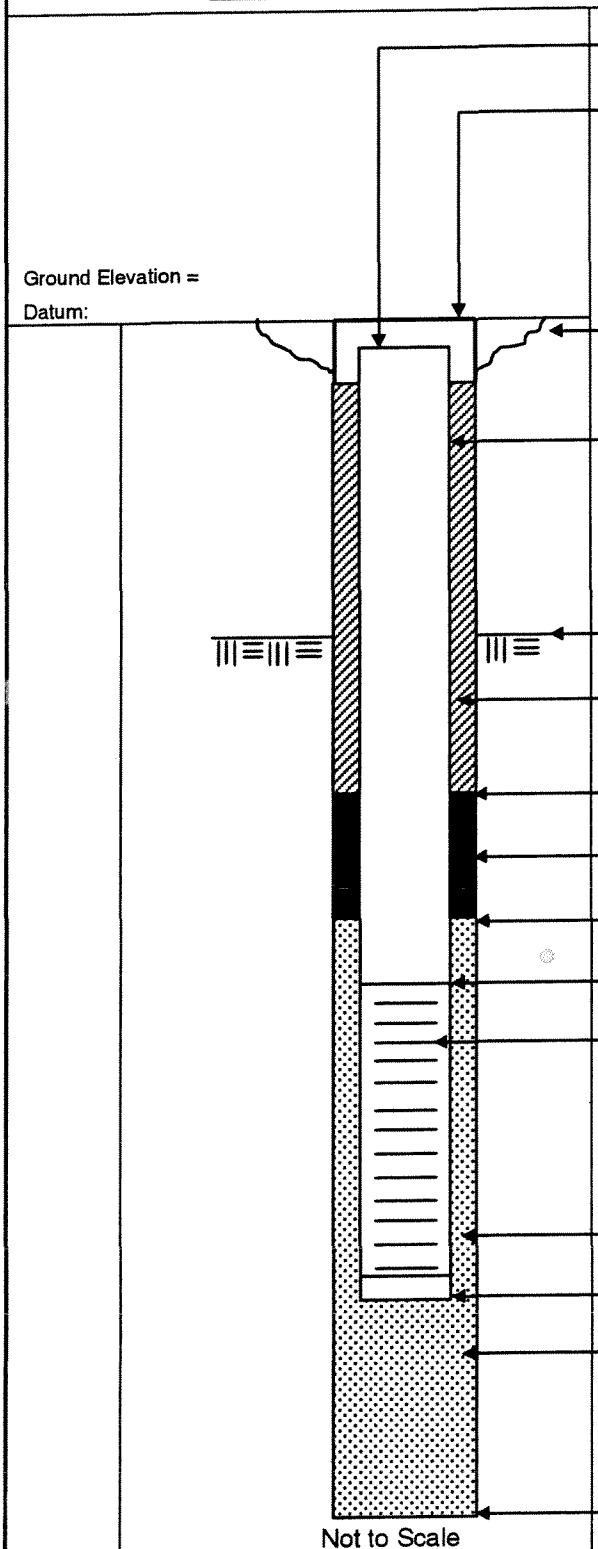
WELL No.: ~~MPT-53-DPW~~ JAX-47-MW17D

MONITORING WELL SHEET

PROJECT: CTO 162
PROJECT No.: N3966 HY0050 ~~119~~ 115
SITE: NAS Jacksonville
GEOLOGIST: L. KNIGHT

DRILLING Co.: Ambient (ATI)
DRILLER: LEWIS JOHNSON
DRILLING METHOD: ~~Direct Push~~ MR CENTRIFUGAL PUMP
DEV. METHOD: ~~Low Flow Purge~~

BORING No.: -MW17D
DATE COMPLETED: 3-25-02
NORTHING:
EASTING:



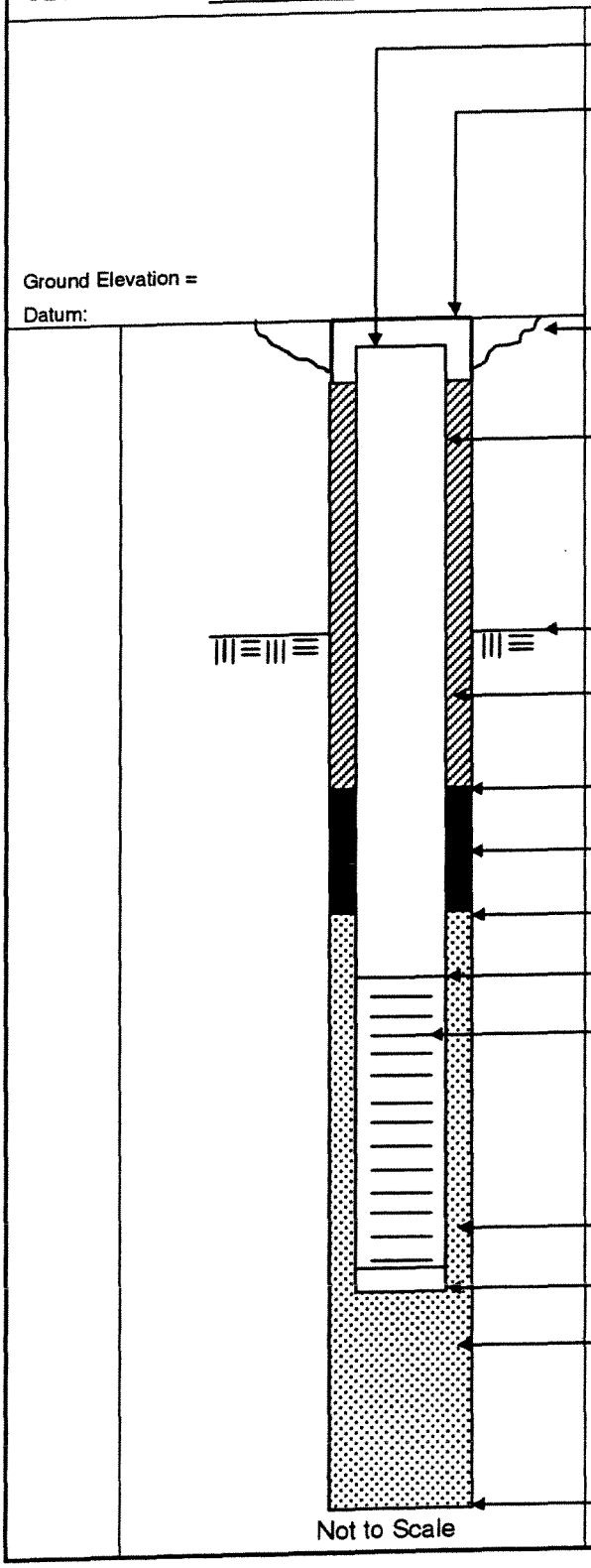
Elevation / Depth of Top of Riser: 102 'bls
Elevation / Height of Top of Surface Casing: 1
I.D. of Surface Casing: 12" ~~8"~~
Type of Surface Casing: SS Manhole
Type of Surface Seal: Quickrete
I.D. of Riser: ~~2~~ 2"
Type of Riser: PVC
Borehole Diameter: ~~6~~ 6"
Elevation / Depth Top of Rock: 1 NA
Type of Backfill: ~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal: 132.0
Type of Seal: 30/65 Sand
Elevation / Depth of Top of Filter Pack: 134.0
Elevation / Depth of Top of Screen: 137.0
Type of Screen: PVC Sch 40 ~~Prepacked~~
Slot Size x Length: 0.010" x 10'
I.D. of Screen: ~~1"/1.66"~~ 2"
Type of Filter Pack: 20/30 Sand
Elevation / Depth of Bottom of Screen: 142.0
Elevation / Depth of Bottom of Filter Pack: 142.5
Type of Backfill Below Well:
Elevation / Total Depth of Borehole: 151.0

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-53-DPW~~ → JAX-47-MW18S

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW18S
PROJECT No.:	N3966 HY0050 ~~115~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3·19·02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	~~Low Flow Purge~~ SUBMERSIBLE PUMP	EASTING:	



Elevation / Depth of Top of Riser:	10.2'65
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	12" 8"
Type of Surface Casing:	SS Manhole
Type of Surface Seal:	Quickrete
I.D. of Riser:	2" x
Type of Riser:	PVC
Borehole Diameter:	2" 8-inch
Elevation / Depth Top of Rock:	1 NA
Type of Backfill:	~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal:	11.0
Type of Seal:	30/65 Sand
Elevation / Depth of Top of Filter Pack:	12.0
Elevation / Depth of Top of Screen:	14.0
Type of Screen:	PVC Sch 40 Prepacked
Slot Size x Length:	0.010" x 10'
I.D. of Screen:	~~1" / 1.66"~~ 2"
Type of Filter Pack:	20/30 Sand
Elevation / Depth of Bottom of Screen:	114.0
Elevation / Depth of Bottom of Filter Pack:	114.5
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	114.5

Tetra Tech NUS, Inc.

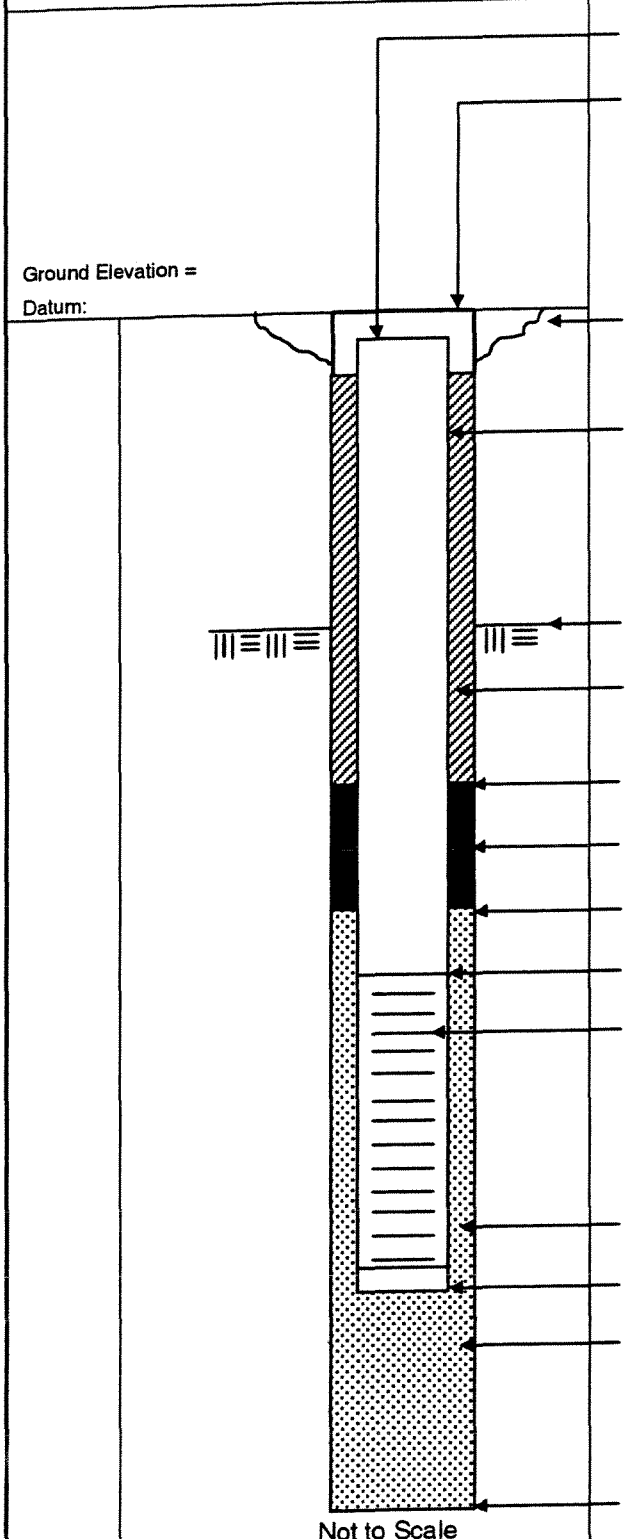
WELL No.: ~~MPT-53-DPW~~ JAX-47-MW18D

MONITORING WELL SHEET

PROJECT: CTO 162
PROJECT No.: N3966 HY0050 ~~119~~ 115
SITE: NAS Jacksonville
GEOLOGIST: L. KNIGHT

DRILLING Co.: Ambient (ATI)
DRILLER: LEWIS JOHNSON
DRILLING METHOD: ~~Direct Push~~ MR
DEV. METHOD: SUBMERSIBLE PUMP ~~Low Flow Purge~~

BORING No.: -18D
DATE COMPLETED: 3.28.02
NORTHING:
EASTING:



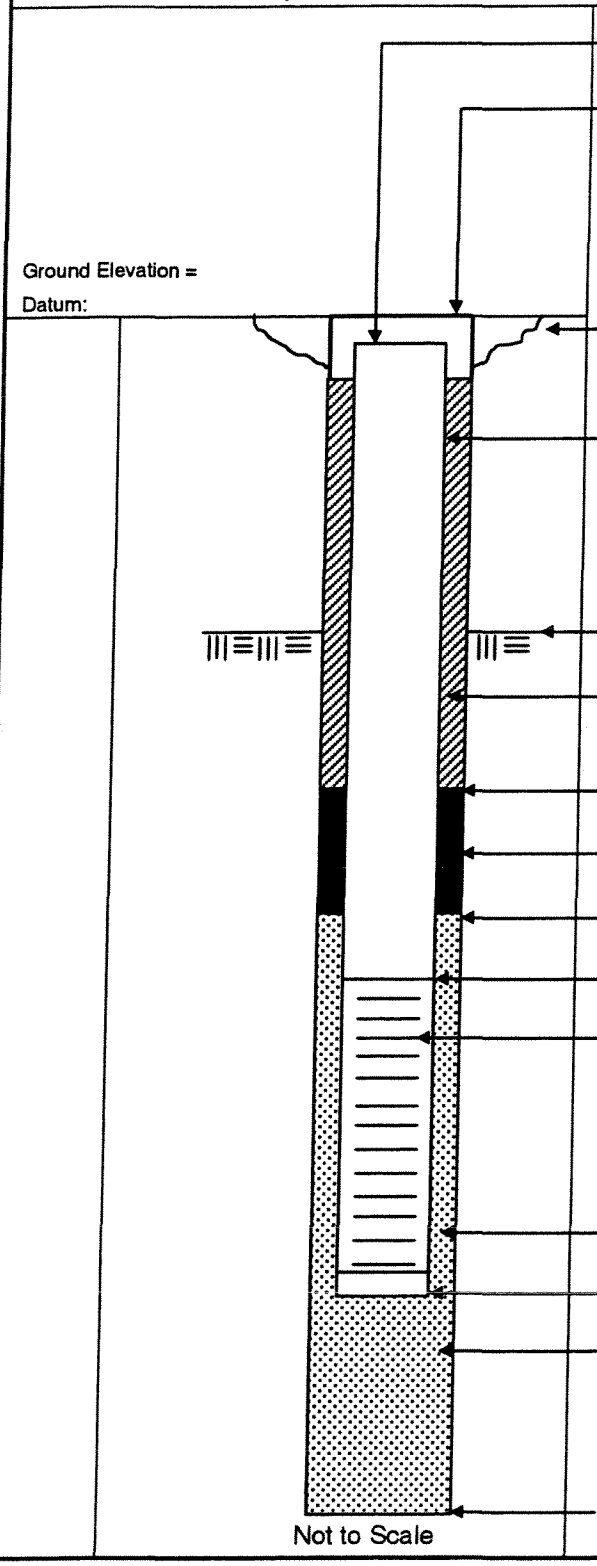
Elevation / Depth of Top of Riser: 10.26
Elevation / Height of Top of Surface Casing: 1
I.D. of Surface Casing: 12" ~~8~~
Type of Surface Casing: SS Manhole
Type of Surface Seal: Quickrete
I.D. of Riser: 2" ~~4~~"
Type of Riser: PVC
Borehole Diameter: ~~8~~ 6"
Elevation / Depth Top of Rock: 1 NA
Type of Backfill: ~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal: 136.0
Type of Seal: 30/65 Sand
Elevation / Depth of Top of Filter Pack: 139.0
Elevation / Depth of Top of Screen: 141.0
Type of Screen: PVC Sch 40 Prepacked
Slot Size x Length: 0.010" x 10'
I.D. of Screen: ~~1"/1.66"~~ 2"
Type of Filter Pack: 20/30 Sand
Elevation / Depth of Bottom of Screen: 146.0
Elevation / Depth of Bottom of Filter Pack: 147.0
Type of Backfill Below Well:
Elevation / Total Depth of Borehole: 147.0

Tetra Tech NUS, Inc.

WELL No.: 7 → ~~MPT-58-DPW~~ JAX-47-MW19S

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW19S
PROJECT No.:	N3966 HY0050 ~~115~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	CENTRIFUGAL PUMP ~~Low Flow Purge~~	EASTING:	



Elevation / Depth of Top of Riser: 10.26/5

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 12" ~~8"~~

Type of Surface Casing: SS Manhole

Type of Surface Seal: Quickrete

I.D. of Riser: 2" ~~4"~~

Type of Riser: PVC

Borehole Diameter: ~~8"~~ 8-inch

Elevation / Depth Top of Rock: 1 NA

Type of Backfill: ~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT

Elevation / Depth of Seal: 10.5

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 11.0

Elevation / Depth of Top of Screen: 12.5

Type of Screen: PVC Sch 40 Prepacked

Slot Size x Length: 0.010" x 10'

I.D. of Screen: ~~4" / 1.66"~~ 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 125

Elevation / Depth of Bottom of Filter Pack: 130 ~~12.5~~

Type of Backfill Below Well:

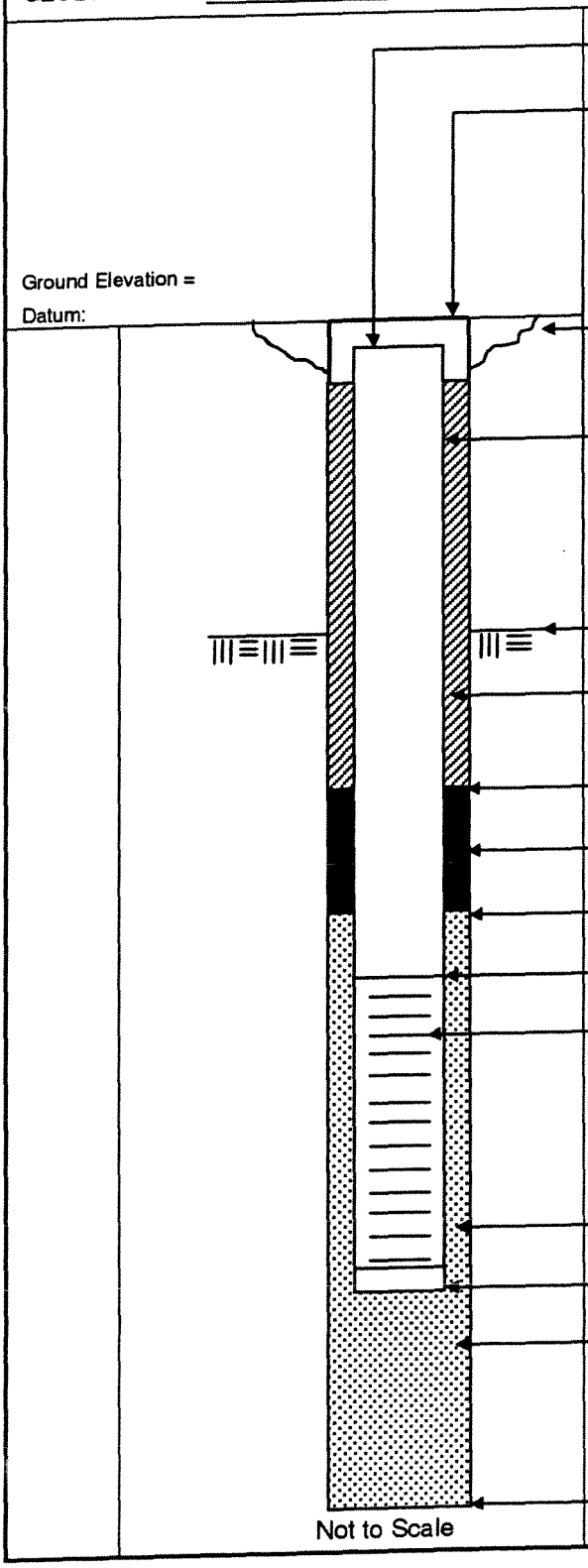
Elevation / Total Depth of Borehole: 113.0

Tetra Tech NUS, Inc.

WELL No.: ~~MPT-SS-DPW~~ → JAX-47-MW20I

MONITORING WELL SHEET

PROJECT:	CTO 162	DRILLING Co.:	Ambient (ATI)	BORING No.:	-MW20I
PROJECT No.:	N3966 HY0050~~115~~ 115	DRILLER:	LEWIS JOHNSON	DATE COMPLETED:	3-21-02
SITE:	NAS Jacksonville	DRILLING METHOD:	~~Direct Push~~ HSA	NORTHING:	
GEOLOGIST:	L. KNIGHT	DEV. METHOD:	SUBMERSIBLE PUMP ~~Low Flow Purge~~	EASTING:	



Elevation / Depth of Top of Riser:	10.2' ±5
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	12" ~~8"~~
Type of Surface Casing:	SS Manhole
Type of Surface Seal:	Quickrete
I.D. of Riser:	2" ±
Type of Riser:	PVC
Borehole Diameter:	~~2"~~ 8-inch
Elevation / Depth Top of Rock:	1 NA
Type of Backfill:	~~30/65 Sand~~ TYPE I PORTLAND CEMENT GROUT
Elevation / Depth of Seal:	116.0
Type of Seal:	30/65 Sand
Elevation / Depth of Top of Filter Pack:	118.0
Elevation / Depth of Top of Screen:	120.0
Type of Screen:	PVC Sch 40 Prepacked
Slot Size x Length:	0.010" x 10'
I.D. of Screen:	~~1" / 1.66"~~ 2"
Type of Filter Pack:	20/30 Sand
Elevation / Depth of Bottom of Screen:	125.0
Elevation / Depth of Bottom of Filter Pack:	125.5
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	125.5

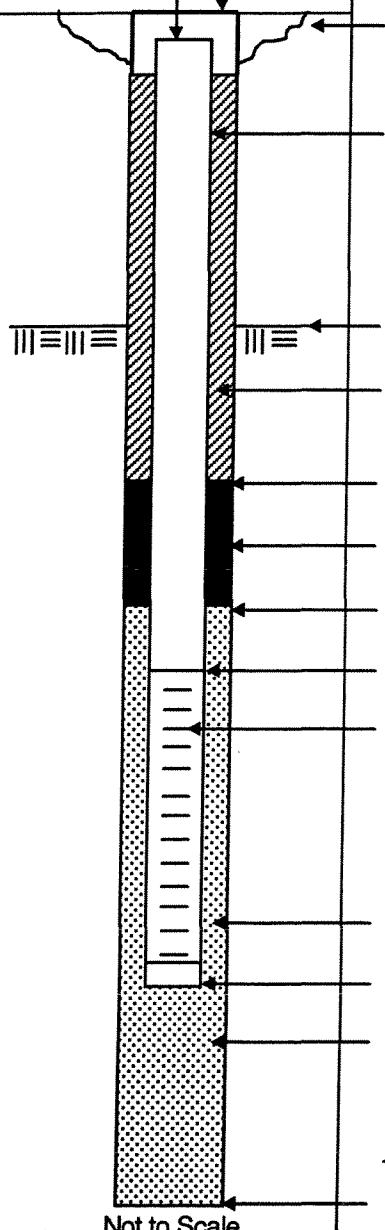
Tetra Tech NUS, Inc.

Temporary

MONITORING WELL SHEET

WELL No.: _____

PROJECT:	N3966	DRILLING Co.:	PARTRIDGE	BORING No.:	JAK 47-MW21S
PROJECT No.:		DRILLER:	M. NICHOLSON	DATE COMPLETED:	11/4/02
SITE:	PSC 47	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	



Ground Elevation =

Datum:

Not to Scale

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 16" ABOVE GRADE

I.D. of Surface Casing: ~~8"~~ NOT FINISHED

Type of Surface Casing: Steel

Type of Surface Seal: HOLE PLUG

I.D. of Riser: ~~3/4"~~ 2"

Type of Riser: PVC

Borehole Diameter: 2"

Elevation / Depth Top of Rock: 1 NA

Type of Backfill: HOLE PLUG

Elevation / Depth of Seal: 10.6"

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 11'

Elevation / Depth of Top of Screen: 12'

Type of Screen: PVC

Slot Size x Length: 0.10/10'

I.D. of Screen: 2"

Type of Filter Pack: ~~Prepacked~~ 20-30 SAND

Elevation / Depth of Bottom of Screen: 112'

Elevation / Depth of Bottom of Filter Pack: 112'

Type of Backfill Below Well: NA

Elevation / Total Depth of Borehole: 112'

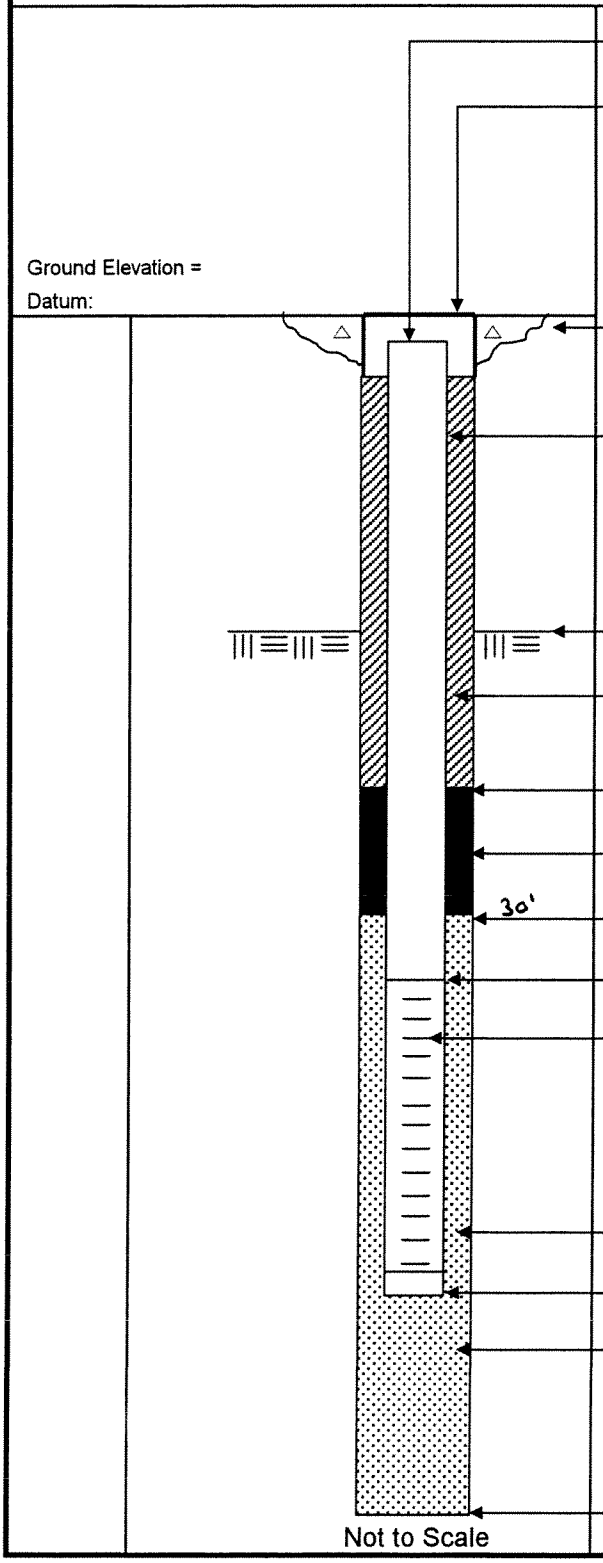
Tetra Tech NUS, Inc.

Temporary

WELL No.: _____

MONITORING WELL SHEET

PROJECT:	N3966	DRILLING Co.:	Partridge	BORING No.:	Jax-47-MW22-Deep
PROJECT No.:		DRILLER:	M. Nicholson	DATE COMPLETED:	11-4-02
SITE:	PSC 47	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. Pare	DEV. METHOD:	Submersible	EASTING:	



Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: 16" above Grade

I.D. of Surface Casing: 6" Not Finished

Type of Surface Casing: _____

Type of Surface Seal: Hole Plug

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 2"

Elevation / Depth Top of Rock: / NA

Type of Backfill: 20-30 Sand

Elevation / Depth of Seal: / 2'

Type of Seal: 30-65 Sand

Elevation / Depth of Top of Filter Pack: /

Elevation / Depth of Top of Screen: /

Type of Screen: PVC

Slot Size x Length: 0.10/10'

I.D. of Screen: 2"

Type of Filter Pack: 20-30 sand

Elevation / Depth of Bottom of Screen: / 46'

Elevation / Depth of Bottom of Filter Pack: / 46.5'

Type of Backfill Below Well: _____

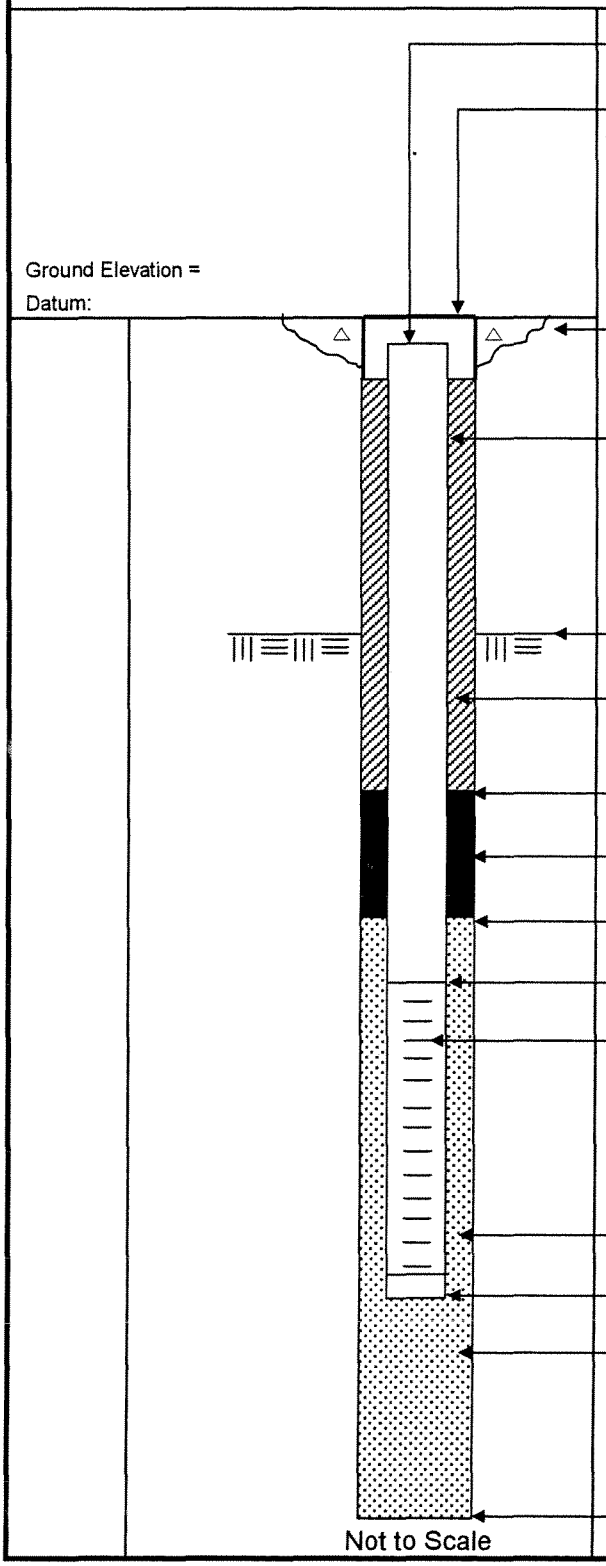
Elevation / Total Depth of Borehole: / 46.5'

Tetra Tech NUS, Inc.

WELL No.: _____

MONITORING WELL SHEET

PROJECT: _____		DRILLING Co.:	Partridge	BORING No.:	Jax-47-MW23s
PROJECT No.:	N3966	DRILLER:	M. Nicholson	DATE COMPLETED:	11-4-02
SITE:	PSC 47	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. PaTe	DEV. METHOD:	Submersible	EASTING:	



Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: 16" above Grade

I.D. of Surface Casing: ~~Not Provided~~ 8"

Type of Surface Casing: Steel

Type of Surface Seal: Type I Portland

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 2"

Elevation / Depth Top of Rock: NA

Type of Backfill: Hole Plug

Elevation / Depth of Seal: 10.6"

Type of Seal: 30-65 sand

Elevation / Depth of Top of Filter Pack: 4'

Elevation / Depth of Top of Screen: 5'

Type of Screen: PVC

Slot Size x Length: 0.10/10'

I.D. of Screen: 2"

Type of Filter Pack: 20-30 Sand

Elevation / Depth of Bottom of Screen: 15'

Elevation / Depth of Bottom of Filter Pack: 15'

Type of Backfill Below Well:

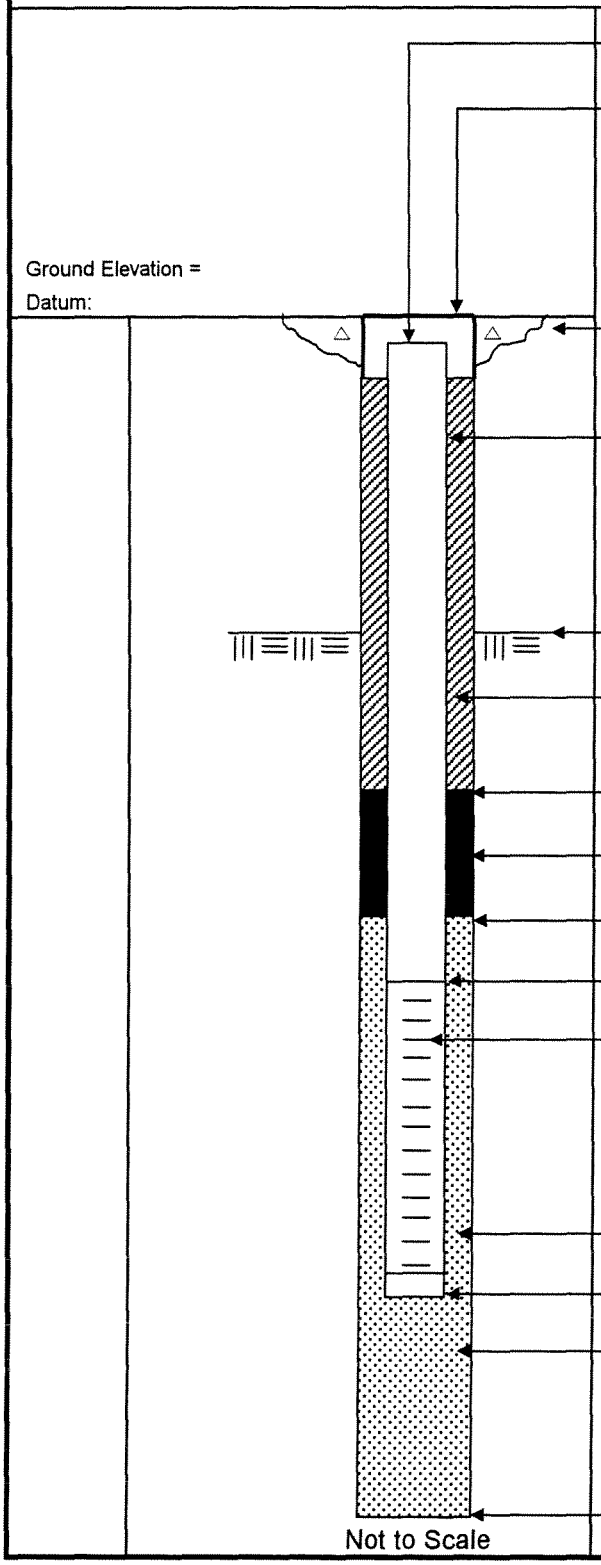
Elevation / Total Depth of Borehole: 15.0'

Tetra Tech NUS, Inc.

WELL No.: _____

MONITORING WELL SHEET

PROJECT:	N3966	DRILLING Co.:	PalTridge	BORING No.:	Jax47-MW24D
PROJECT No.:		DRILLER:	J. Weatherford M. Nicholson	DATE COMPLETED:	11-5-02
SITE:	PSC 47	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. Pate	DEV. METHOD:	submersible	EASTING:	



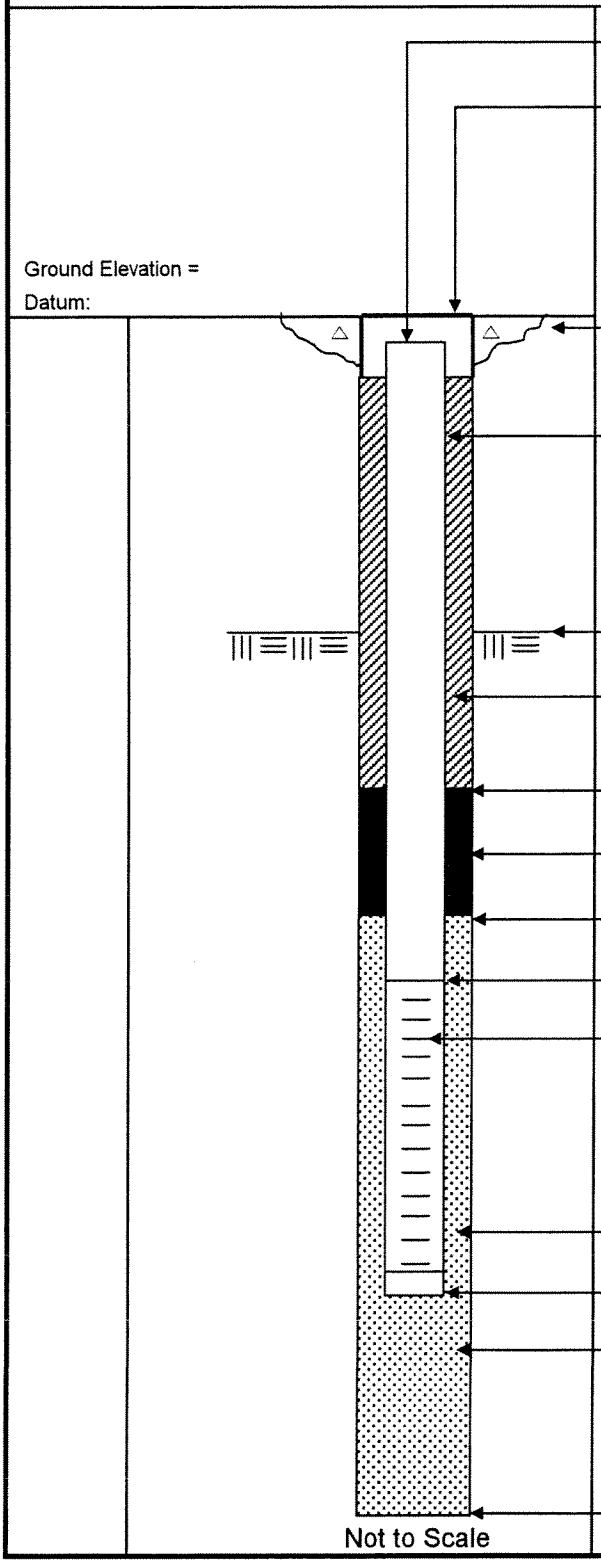
Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/ flush
I.D. of Surface Casing:	8"
Type of Surface Casing:	Steel
Type of Surface Seal:	Cement (Quickcrete)
I.D. of Riser:	2"
Type of Riser:	PVC
Borehole Diameter:	2"
Elevation / Depth Top of Rock:	NA
Type of Backfill:	Type 1 Portland
Elevation / Depth of Seal:	/ 36
Type of Seal:	30/65 sand
Elevation / Depth of Top of Filter Pack:	/ 38
Elevation / Depth of Top of Screen:	/ 40
Type of Screen:	PVC
Slot Size x Length:	0.10/5'
I.D. of Screen:	2"
Type of Filter Pack:	20/30 sand
Elevation / Depth of Bottom of Screen:	/ 45'
Elevation / Depth of Bottom of Filter Pack:	/ 45'
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	/ 45'

Tetra Tech NUS, Inc.

WELL No.: _____

MONITORING WELL SHEET

PROJECT:	N3966	DRILLING Co.:	Partridge	BORING No.:	Jax47-MW25
PROJECT No.:		DRILLER:	M. Nicholson	DATE COMPLETED:	11-4-02
SITE:	PSC 47	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. Pate	DEV. METHOD:	Submersible	EASTING:	



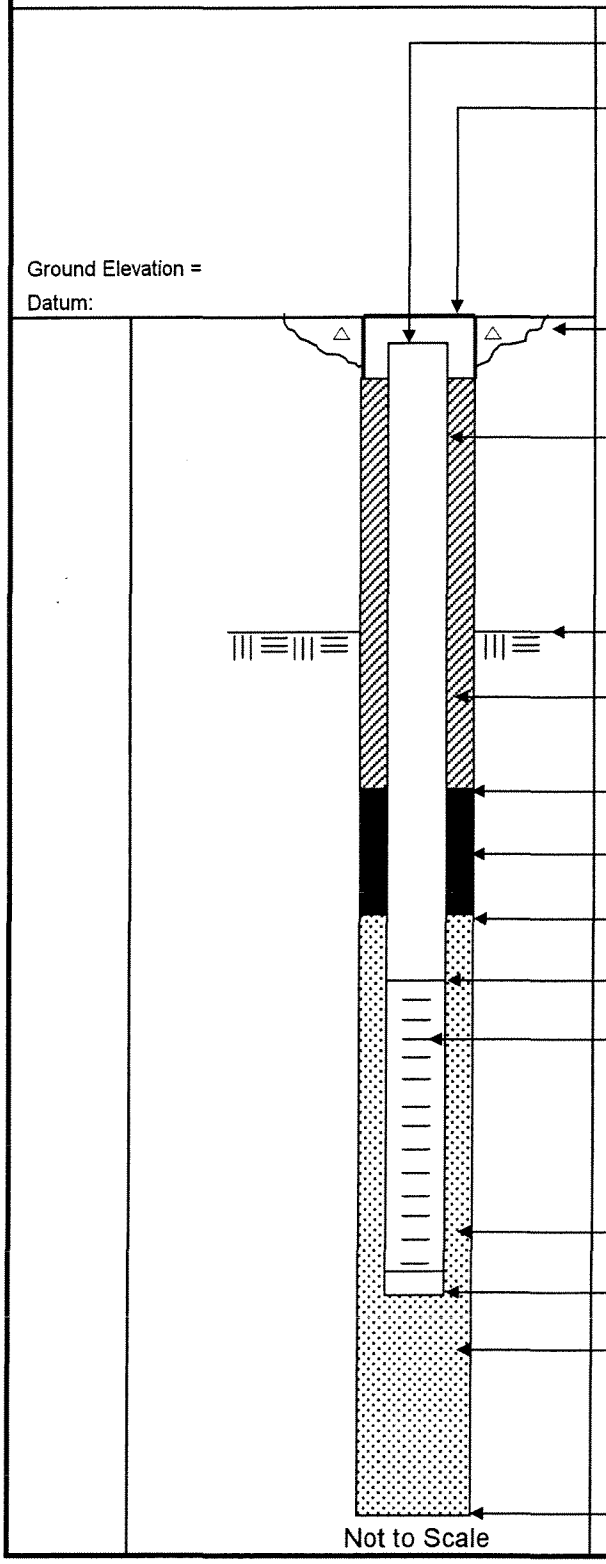
Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8"
Type of Surface Casing:	Steel
Type of Surface Seal:	Type I Portland
I.D. of Riser:	2"
Type of Riser:	PVC
Borehole Diameter:	2"
Elevation / Depth Top of Rock:	NA
Type of Backfill:	Hole Plug
Elevation / Depth of Seal:	/ 0.6"
Type of Seal:	30-65 Sand
Elevation / Depth of Top of Filter Pack:	/ 3'
Elevation / Depth of Top of Screen:	/ 4'
Type of Screen:	PVC
Slot Size x Length:	0.10 / 10'
I.D. of Screen:	2"
Type of Filter Pack:	20-30 Sand
Elevation / Depth of Bottom of Screen:	/ 14'
Elevation / Depth of Bottom of Filter Pack:	/ @15'
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	/ 15'

Tetra Tech NUS, Inc.

WELL No.: JAX-47-MW26

MONITORING WELL SHEET

PROJECT:	PSC 47	DRILLING Co.:	Partridge	BORING No.:	MW26
PROJECT No.:	N3966	DRILLER:	Mike Nicholson	DATE COMPLETED:	1-15-03
SITE:	PSC 47	DRILLING METHOD:	hollow stem	NORTHING:	
GEOLOGIST:	MLF	DEV. METHOD:	Submersible	EASTING:	



Elevation / Depth of Top of Riser: Flush /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8 in

Type of Surface Casing: flush mount

Type of Surface Seal: grout/concrete pad

I.D. of Riser: 2 in

Type of Riser: PVC

Borehole Diameter: 9 in

Elevation / Depth Top of Rock: N/A /

Type of Backfill: grout

Elevation / Depth of Seal: / 2ft

Type of Seal: Fine Sand

Elevation / Depth of Top of Filter Pack: / 3ft

Elevation / Depth of Top of Screen: /

Type of Screen: PVC Slotted

Slot Size x Length: 0.10mil/10ft

I.D. of Screen: 2 in

Type of Filter Pack: 20-30 Sand

Elevation / Depth of Bottom of Screen: / 13

Elevation / Depth of Bottom of Filter Pack: / 14

Type of Backfill Below Well:

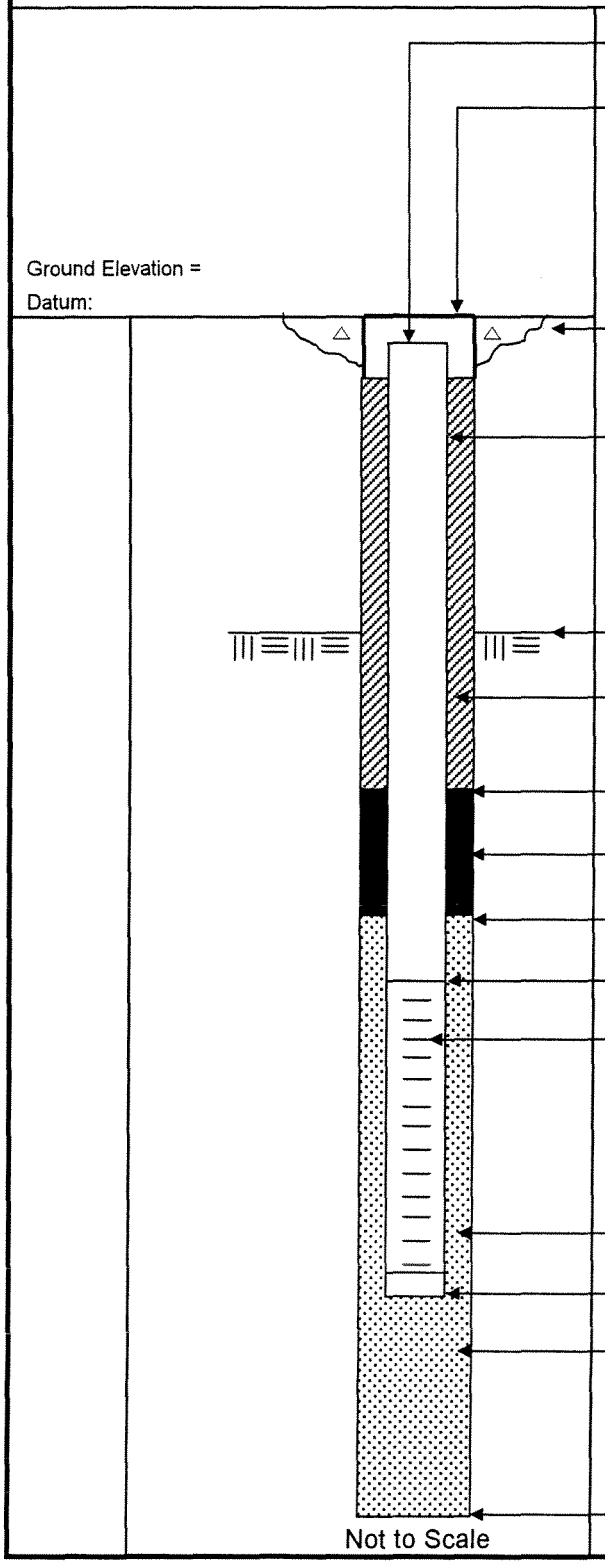
Elevation / Total Depth of Borehole: / 14

Tetra Tech NUS, Inc.

WELL No.: JAX-47-MW27

MONITORING WELL SHEET

PROJECT:	PSC 47	DRILLING Co.:	Partridge	BORING No.:	JAX-47-MW27
PROJECT No.:	N3966	DRILLER:	Mike Nichols	DATE COMPLETED:	1-15-03
SITE:	PSC47	DRILLING METHOD:	Hollow Stem	NORTHING:	
GEOLOGIST:	MLF	DEV. METHOD:		EASTING:	



- Elevation / Depth of Top of Riser: Flush /
- Elevation / Height of Top of Surface Casing: /
- I.D. of Surface Casing: 8 in
- Type of Surface Casing: flush mount
- Type of Surface Seal: grout/concrete pad
- I.D. of Riser: 2 in
- Type of Riser: PVC
- Borehole Diameter: 9 in
- Elevation / Depth Top of Rock: N/A /
- Type of Backfill: grout
- Elevation / Depth of Seal: / 2ft
- Type of Seal: Finesand
- Elevation / Depth of Top of Filter Pack: / 3ft
- Elevation / Depth of Top of Screen: /
- Type of Screen: PVC slotted
- Slot Size x Length: 10ft/ 0.10mil
- I.D. of Screen: 2 in
- Type of Filter Pack: 20-30 sand
- Elevation / Depth of Bottom of Screen: / 13
- Elevation / Depth of Bottom of Filter Pack: / 14
- Type of Backfill Below Well:
- Elevation / Total Depth of Borehole: / 14

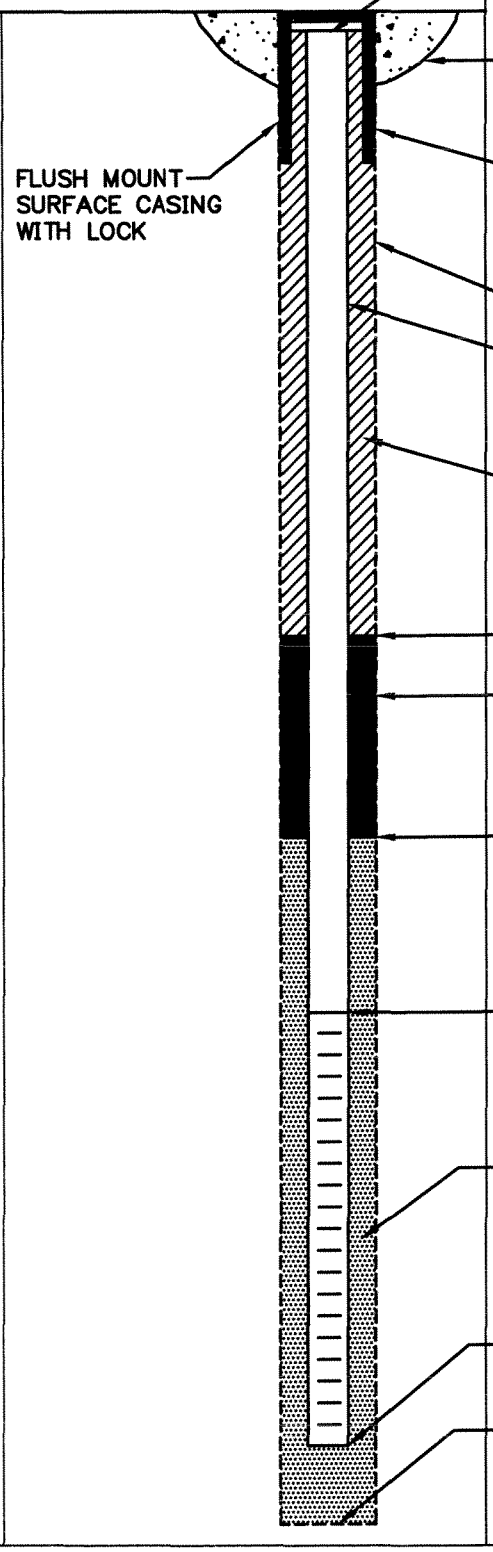
WELL NO.: JAX47-MW14S

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
FLUSH - MOUNT

PROJECT PSC 47	LOCATION NAS JACKSONVILLE	DRILLER JON MARTIN
PROJECT NO. 112G00497	BORING JAX47-MW14S	DRILLING METHOD HOLLOW STEM AUGER
DATE BEGUN 12/6/06	DATE COMPLETED 12/6/06	
FIELD GEOLOGIST TERRY COTTENOIR		DEVELOPMENT METHOD PERISTALTIC PUMP
GROUND ELEVATION	DATUM	

ACAD: FORM_MWFM.dwg 07/20/99 INL



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: QUIKRETE CONCRETE MIX

TYPE OF PROTECTIVE CASING: ABOVE GRADE STEEL MAN HOLE COVER

I.D. OF PROTECTIVE CASING: 8-INCH

DIAMETER OF HOLE: 6-INCH

TYPE OF RISER PIPE: SCH 40 PVC

RISER PIPE I.D.: 2-INCH

TYPE OF BACKFILL/SEAL: TYPE I PORTLAND CEMENT

ELEVATION/DEPTH TOP OF SEAL: 1.5 ft

TYPE OF SEAL: 30/65 FINE SAND

ELEVATION/DEPTH TOP OF SAND: 12 ft

ELEVATION/DEPTH TOP OF SCREEN: 13 ft

TYPE OF SCREEN: ~~0.010 mil~~ SCH 40 PVC

SLOT SIZE x LENGTH: 0.010 mil x 10 ft

TYPE OF SAND PACK: 20/30 SILICA SAND

DIAMETER OF HOLE IN BEDROCK: 6-INCH

ELEVATION / DEPTH BOTTOM OF SCREEN: 113 ft

ELEVATION / DEPTH BOTTOM OF SAND: 113 ft

ELEVATION/DEPTH BOTTOM OF HOLE: 113 ft

BACKFILL MATERIAL BELOW SAND: NATURAL FILL

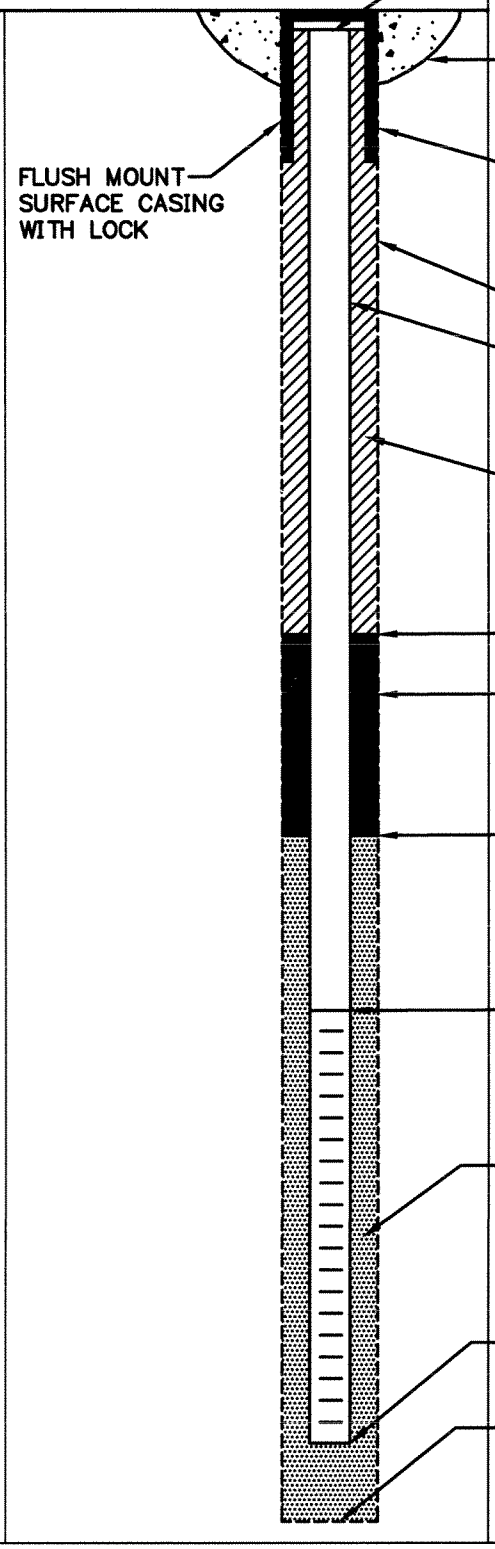
WELL NO.: JAX47-MW28S

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
FLUSH - MOUNT

PROJECT PSC 47	LOCATION NAS JACKSONVILLE	DRILLER JON MARTIN
PROJECT NO. 112G00497	BORING JAX47-MW28S	DRILLING METHOD HOLLOW STEM AUGER
DATE BEGUN 12/6/06	DATE COMPLETED 12/6/06	
FIELD GEOLOGIST TERRY COTTENDIR		DEVELOPMENT METHOD PERISTALTIC PUMP
GROUND ELEVATION	DATUM	

ACAD:FORM_MWFM.dwg 07/20/99 INL



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: QUIKRETE CONCRETE MIX

TYPE OF PROTECTIVE CASING: ABOVE GRADE STEEL MAN HOLE COVER

I.D. OF PROTECTIVE CASING: 8-INCH

DIAMETER OF HOLE: 6-INCH

TYPE OF RISER PIPE: SCH 40 PVC

RISER PIPE I.D.: 2-INCH

TYPE OF BACKFILL/SEAL: TYPE I PORTLAND CEMENT

ELEVATION/DEPTH TOP OF SEAL: 1.5 ft

TYPE OF SEAL: 30/65 FINE SAND

ELEVATION/DEPTH TOP OF SAND: 12 ft

ELEVATION/DEPTH TOP OF SCREEN: 13 ft

TYPE OF SCREEN: SCH 40 PVC

SLOT SIZE x LENGTH: 0.010-mil x 10 ft

TYPE OF SAND PACK: 20/30 SILICA SAND

DIAMETER OF HOLE IN BEDROCK: 6-INCH

ELEVATION / DEPTH BOTTOM OF SCREEN: 113 ft

ELEVATION / DEPTH BOTTOM OF SAND: 113 ft

ELEVATION/DEPTH BOTTOM OF HOLE: 113 ft

BACKFILL MATERIAL BELOW SAND: NATURAL FILL

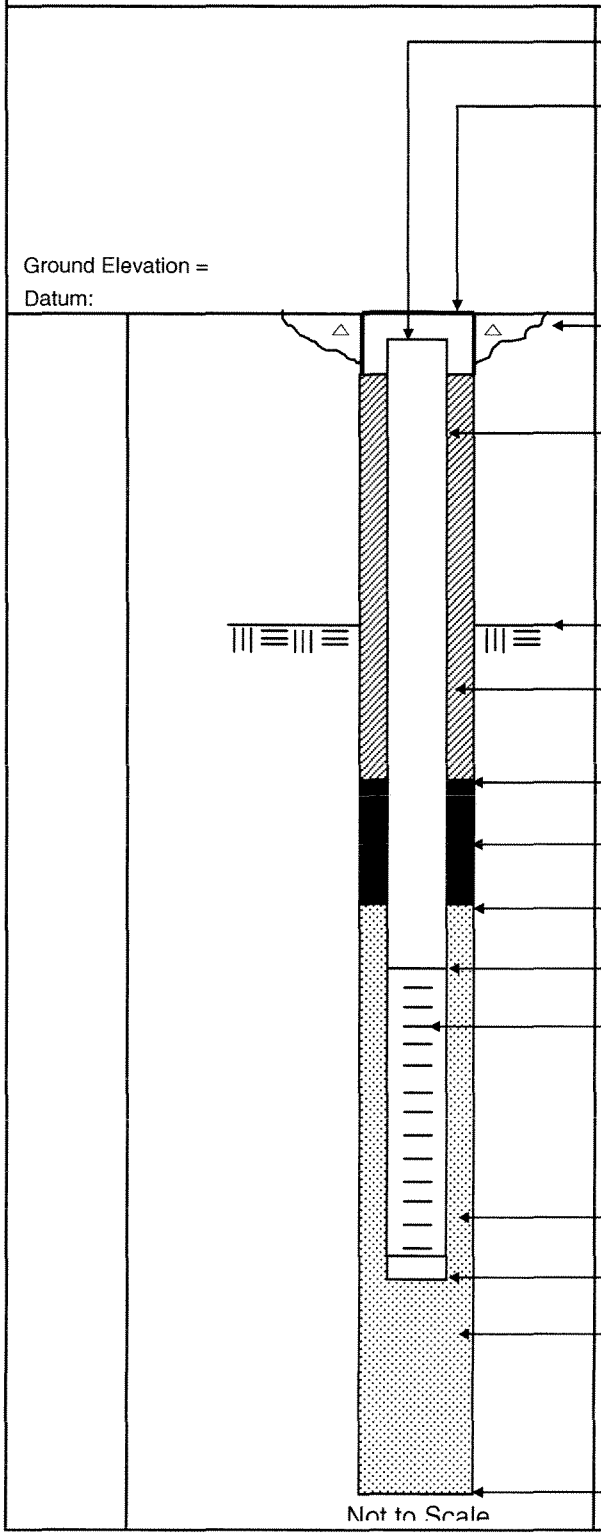
JAX47-MW29S

Tetra Tech NUS, Inc.

WELL No.: MW-29S

MONITORING WELL SHEET

PROJECT:	NAS JAX	DRILLING Co.:	ZEBRA	BORING No.:	
PROJECT No.:	112G00497	DRILLER:	Joe Policastri	DATE COMPLETED:	03/02/07
SITE:	PSC 47	DRILLING METHOD:	Direct Push	NORTHING:	
GEOLOGIST:	Scott McGuire	DEV. METHOD:		EASTING:	



Elevation / Depth of Top of Riser:		/
Elevation / Height of Top of Surface Casing:		/
I.D. of Surface Casing:	8"	
Type of Surface Casing:	Steel Manhole	
Type of Surface Seal:	Quikrete	
I.D. of Riser:	1 1/4	
Type of Riser:	PVC	
Borehole Diameter:	3"	
Elevation / Depth Top of Rock:		/
Type of Backfill:	Portland Type II Cement	
Elevation / Depth of Seal:		/ 1.0
Type of Seal:	3/8" Bentonite chips	
Elevation / Depth of Top of Filter Pack:		/ 2.0
Elevation / Depth of Top of Screen:		/ 3.0
Type of Screen:	Prepacked	
Slot Size x Length:	0.01 x 10'	
I.D. of Screen:	2.5"	
Type of Filter Pack:	24/40 Sand	
Elevation / Depth of Bottom of Screen:		/ 13.0
Elevation / Depth of Bottom of Filter Pack:		/ 13.5
Type of Backfill Below Well:		
Elevation / Total Depth of Borehole:		/ 13.5

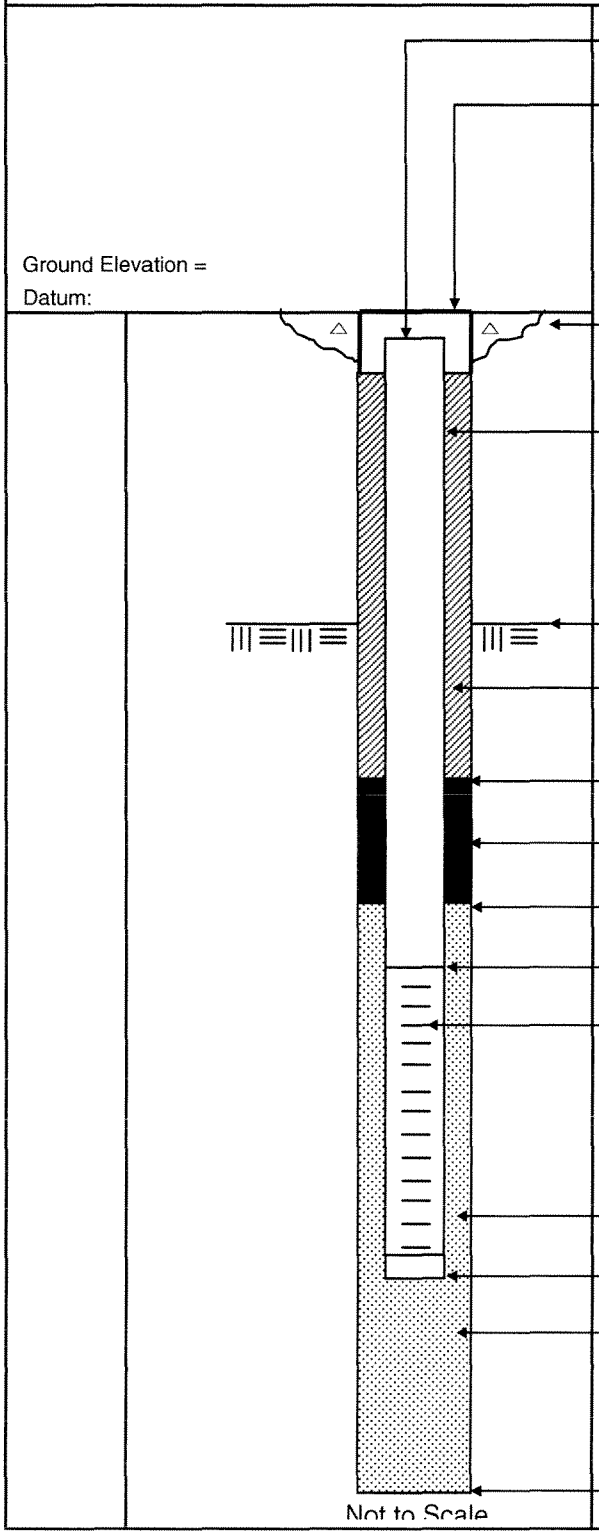
JAX47-MW30S

Tetra Tech NUS, Inc.

WELL No.: MW-30S

MONITORING WELL SHEET

PROJECT:	NAS JAX	DRILLING Co.:	ZEBRA	BORING No.:	
PROJECT No.:	112G00497	DRILLER:	Joe Policastri	DATE COMPLETED:	03/02/07
SITE:	PSC 47	DRILLING METHOD:	Direct Push	NORTHING:	
GEOLOGIST:	Scott McGuire	DEV. METHOD:		EASTING:	



Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Steel Manhole

Type of Surface Seal: Quikrete

I.D. of Riser: 1 1/4

Type of Riser: PVC

Borehole Diameter: 3"

Elevation / Depth Top of Rock: /

Type of Backfill: Portland Type II Cement

Elevation / Depth of Seal: / 1.0

Type of Seal: 3/8" Bentonite chips

Elevation / Depth of Top of Filter Pack: / 2.0

Elevation / Depth of Top of Screen: / 3.0

Type of Screen: Prepacked

Slot Size x Length: 0.01 x 10'

I.D. of Screen: 2.5"

Type of Filter Pack: 24/40 Sand

Elevation / Depth of Bottom of Screen: / 13.0

Elevation / Depth of Bottom of Filter Pack: / 13.5

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: / 13.5

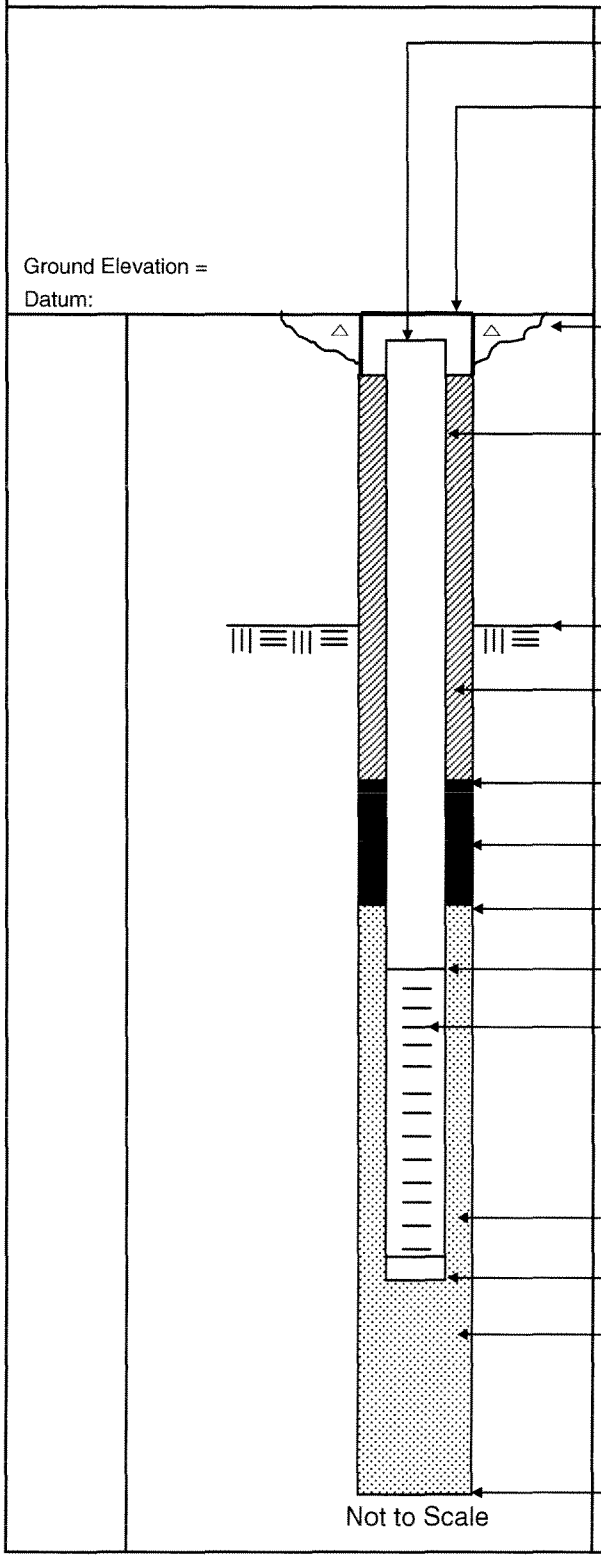
Tetra Tech NUS, Inc.

JAX47-MW31D

WELL No.: MW-31D

MONITORING WELL SHEET

PROJECT:	NAS JAX	DRILLING Co.:	ZEBRA	BORING No.:	
PROJECT No.:	112G00497	DRILLER:	Joe Policastri	DATE COMPLETED:	
SITE:	PSC 47	DRILLING METHOD:	Direct Push	NORTHING:	
GEOLOGIST:	Scott McGuire	DEV. METHOD:		EASTING:	



Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Steel Manhole

Type of Surface Seal: Quikrete

I.D. of Riser: 3/4"

Type of Riser: PVC

Borehole Diameter: 2"

Elevation / Depth Top of Rock: /

Type of Backfill: Portland Type II Cement

Elevation / Depth of Seal: / 44.0 ~~56.0~~

Type of Seal: Formation sand

Elevation / Depth of Top of Filter Pack: / 46.0 ~~58.0~~

Elevation / Depth of Top of Screen: / 48.0 ~~60.0~~

Type of Screen: Prepacked

Slot Size x Length: 0.01 x 5"

I.D. of Screen: 3/4"

Type of Filter Pack: 24/40 Sand

Elevation / Depth of Bottom of Screen: / 53.0 ~~65.0~~

Elevation / Depth of Bottom of Filter Pack: / 53.5 ~~65.5~~

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: / 53.5 ~~65.5~~

APPENDIX F

MONITORING WELL DEVELOPMENT RECORDS
(MW21S THROUGH MW27S)

Tetra Tech NUS, Inc.

MW Developing

~~LOW FLOW PURGE~~ DATA SHEET

PROJECT SITE NAME: PSC 47 WELL ID.: JAX47-MW21 & MW22

PROJECT NUMBER: N3966 DATE: 11/5/02

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0945	—	—	5.43	0.214	—	10.60	22.5	172	
0950	—	—	5.09	0.138	796	8.58	24.2	172	
1000	—	—	5.01	0.136	109	7.74	26.8	184	
1010	—	—	5.01	0.136	—	8.04	27.6	181	
1015	—	—	5.10	0.130	249	9.10	27.4	175	
1020			4.94	0.117	~~117~~ 103	7.06	27.3	188	
1025			4.92	0.115	152	7.08	27.3	189	
1030			4.83	0.118	168	8.40	27.5	192	
MW22→ 1507	—	—	5.82	0.312	—	6.09	30.0	-19	
1517			6.26	0.215	—	6.19	28.5	-34	
1525			6.30	0.208	—	6.20	27.4	-35	
1530			6.31	0.209	813.0	6.40	27.0	-45	
1535			6.34	0.210	656.0	6.41	26.9	-49	
1540	—	—	6.34	0.206	445.0	6.41	26.9	-52	

SIGNATURE(S): _____

PAGE___OF___

Mon Well Pur.

Tetra Tech NUS, Inc.

~~LOW FLOW PURGE~~ DATA SHEET

PROJECT SITE NAME: PSC 47 **WELL ID.:** JAX47-MW23

PROJECT NUMBER: N3966 **DATE:** ~~10~~ 11/6/02

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1210	4.79	—	6.07	0.341	612	7.45	22.3	23	
1216			5.88	0.325	468	7.51	22.2	34	
1230			5.85	0.324	78.4	7.65	19.7	38	
1240			5.87	0.321	60.3	7.68	19.6	47	

~~MW24~~

SIGNATURE(S): _____

PAGE___OF___

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Page ___ of ___

Well: JAX47-MW24
Site: PSC 47
Date Installed: 11/5/02
Date Developed: 11/6/02
Dev. Method: Submersible
Pump Type: Pump.
Depth to Bottom (ft.): 45.3
Static Water Level Before (ft.): 6.59
Static Water Level After (ft.): ___
Screen Length (ft.): 5ft
Specific Capacity: ___
Casing ID (in.): ___
Responsible Personnel: Meg Ferguson / Alan Tate
Drilling Co.: Partridge
Project Name: N3966
Project Number:

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1215				22.4	6.14	0.195	>999	
1218				22.5	6.05	0.173	>999	
1230				19.4	6.12	0.169	>999	
1305				17.5	5.95	0.298	>999	
1315				19.0	6.33	0.200	>999	
1321				18.7	6.20	0.189	>999	
1330				18.9	6.15	0.175	>999	2 drums filled up ~110 gal

Note: Went beyond 55 gallons, had to get a new drum.

Had to switch pumps, short one died

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Page ___ of ___

Well: JAX47-MW25
Site: PSC47
Date Installed: 10/4/02
Date Developed: 10/6/02
Dev. Method: Submersible
Pump Type: ___

Depth to Bottom (ft.): 14.31
Static Water Level Before (ft.): 5.35
Static Water Level After (ft.): ___
Screen Length (ft.): 10ft
Specific Capacity: ___
Casing ID (in.): ___

Responsible Personnel: Meg Ferguson / Alan Pate
Drilling Co.: Partridge
Project Name:
Project Number:

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ms/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1345			5.35	18.9	5.06	0.187	7999	
1350				22.2	4.70	0.177	158	
1400				23.6	4.69	0.170	61.3	
1410				24.0	4.63	0.168	56.0	
1420				27.1	4.68	0.160	7999	
1430				27.7	4.58	0.161	7.5	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: JAX 47-MW26 Depth to Bottom (ft.): 12.80 Responsible Personnel: L. MIDDLETON, P. LEVERETT
Site: PSC 47 Static Water Level Before (ft.): 4.75 Drilling Co.: PARTRIDGE
Date Installed: 11/5/03 Static Water Level After (ft.): 4.77 Project Name: ~~NAS CECIL FIELD~~ NAS JAX PSC 47
Date Developed: 11/7/03 Screen Length (ft.): 10 Project Number: N3966
Dev. Method: _____ Pump Specific Capacity: _____ N/A
Pump Type: _____ Submersible Casing ID (in.): 2

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units: mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1315	0.2	—	4.63	—	—	—	—	LT BROWN/OPAQUE
1325	15	15		22.2	4.57	0.139	341	CLOUDY WHITE
1335	~~35~~ 30	35		22.1	4.52	0.144	152	CLEAR
1345	50	50		22.2	4.52	0.144	115	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: JAX47-MW27
Site: PSC47
Date Installed: 11/5/03
Date Developed: 11/7/03
Dev. Method: SUBMERSIBLE
Pump Type: "
Depth to Bottom (ft.): 12.86
Static Water Level Before (ft.): 5.23
Static Water Level After (ft.): 5.29
Screen Length (ft.): 10
Specific Capacity:
Casing ID (in.): 2"
Responsible Personnel: L. MIDDLETON, P. LEVERETTE
Drilling Co.: PARTRIDGE
Project Name: ~~NAS CECIL FIELD~~ NAS JAX
Project Number: ~~0000~~ N3966

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1205	0.14	~~0~~ 15	5.22	—	—	—	—	LIGHT BROWN, ODAOVE
1215	0.10	~~20~~ 20	=	20.5	4.74	0.106	198	CLOUDY WHITE
1225	0.10	30		20.5	4.65	0.104	93.4	CLEAR
1230		40		20.6	4.64	0.104	72.2	
1235		50		20.5	4.64	0.104	69.9	

APPENDIX G

SOIL SAMPLING DATA SHEETS

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB064-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB064	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	12/12/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	14:01	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:01	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB064-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB064	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	14:16	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:16	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB065-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB065	**Modified By**	John Wright
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	11/28/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	10:05	Hand auger	NA	1-2	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	10:08	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB065-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB065	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	10:15	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	10:16	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB066-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB066	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	09:29	Hand auger	NA	0-0.5'	light grey	top depth was after asphalt core approx 3" thick and gravel subbase of 9".

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	09:38	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB066-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB066	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	09:44	Hand auger	na	5.5-6'	light grey	saturation begins at 6.5'

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗	11/28/06	09:50	SW-846 6010B or 6020	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	DELETE THIS ENTRY	
✓	11/28/06	09:50	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB067-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB067	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	15:49	Hand auger	na	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	15:49	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB067-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB067	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	15:56	Hand auger	na	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	15:56	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB068-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB068	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	11:46	Hand auger	na	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	11:47	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB068-07-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB068	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	13:02	Hand auger	NA	6-7	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	13:11	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB069-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB069	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	11:23	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	11:23	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB069-07-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB069	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	11:36	Hand auger	NA	6-7	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	11:36	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB070-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB070	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	10:26	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	10:27	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB070-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB070	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	10:46	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	10:46	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB071-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB071	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	15:39	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	15:39	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB071-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB071	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	16:02	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	16:02	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB072-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB072	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	13:40	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	13:40	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB072-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB072	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	13:50	Hand auger	NA	5.5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	13:50	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB073-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB073	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	14:52	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:52	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB073-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB073	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	16:24	Hand auger	na	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	16:24	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB074-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB074	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	14:50	Hand auger	na	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:50	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB074-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB074	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	16:20	Hand auger	na	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	16:20	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB075-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB075	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	15:32	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	15:32	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB075-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB075	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	16:14	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	16:14	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB076-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB076	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	15:18	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	15:18	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB076-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB076	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	16:32	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	16:32	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB077-01-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB077	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	14:37	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:38	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB077-06-112806	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB077	**Modified By**	John Wright
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	15:07	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	15:07	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB078-01-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB078	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	12:26	Hand auger	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	12:26	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	12:26	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB078-06-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB078	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	12:28	Hand auger	NA	5-6	orange	HARD PAN

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	12:33	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	12:33	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✗	12/1/06	12:29	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	DELETE--EXTRA ENTRY FOR ARSENIC	

General Observations and Notes

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB079-01-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB079	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	12:11	Hand auger	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	12:11	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	12:11	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB079-06-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB079	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	12:16	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	12:18	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	12:18	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB080-01-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB080	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	09:11	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	09:12	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	09:12	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB080-05-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB080	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	09:38	Hand auger	0	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	09:39	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	09:39	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB081-02-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB081	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	10:25	Hand auger	NA	1-2	grey	TAKEN IMMEDATELY BELOW THE PREVIOUSLY EXCAVATED AREA

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	10:25	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2
✓	12/1/06	10:25	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB081-05-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB081	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	10:32	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗	12/1/06	10:32	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	DELETED--ACCIDENTALLY ENTERED	
✓	12/1/06	10:32	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	10:32	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2

General Observations and Notes

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB082-02-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB082	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	10:15	Hand auger	NA	1-2	light grey	TAKEN IMMEDIATELY BELOW A PREVIOUSLY EXCAVATED AREA

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	10:15	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2
✓	12/1/06	10:15	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB082-05-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB082	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	10:21	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	10:21	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2
✓	12/1/06	10:21	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB083-01-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB083	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	09:52	Hand auger	NA	0-1	dark brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	09:52	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2
✓	12/1/06	09:52	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB083-05-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB083	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	09:58	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	09:58	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2
✓	12/1/06	09:58	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB084-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB084	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	13:32	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	13:32	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	13:32	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB084-05-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB084	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	13:44	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	13:44	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	13:44	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB085-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB085	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	13:54	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	13:55	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	13:55	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB085-05-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB085	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	14:01	Hand auger	NA	4-5 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	14:02	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	14:02	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB086-01-112906	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB086	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/29/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:43	SW-846 6010B or 6020	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:43	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB086-06-112906	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB086	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/29/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:50	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:50	SW-846 6010B or 6020	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB087-01-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB087	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	10:40	Hand auger	NA	0-1	brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	10:40	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	10:40	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB087-05-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB087	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	10:48	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	10:48	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	10:48	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB088-03-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB088	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	11:45	Hand auger	NA	2-3	grey	TAKEN IMMEDIATELY BELOW THE EXCAVATION AREA

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	11:45	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	11:45	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB088-06-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB088	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	11:59	Hand auger	NA	5-6	light brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	11:59	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	11:59	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB089-02-113006	**Created By**	John Wright
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB089	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	13:38	Hand auger	NA	0-1	light grey	
11/30/06	13:35	Hand auger	NA	1-2 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	14:00	SW-846 6010B or 6020	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected	112G00497-1212006-2
✓	11/30/06	14:00	SW-846 8081A	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected	112G00497-1212006-2

General Observations and Notes

MS/MSD collected

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB089-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB089-05-113006	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	14:10	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	14:10	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	14:10	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB090-03-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB090	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	11:29	Hand auger	NA	2-3	light brown	Run MS/MSD for arsenic only

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	11:29	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	11:29	SW-846 6010B or 6020	Arsenic	None	3	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD for aresenic only	112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB090-06-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB090	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	11:39	Hand auger	NA	5-6	light brown	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	11:39	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	12/1/06	11:39	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB091-04-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB091	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	11:15	SW-846 8081A	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD	112G00497-1212006-2
✓	12/1/06	11:15	SW-846 6010B or 6020	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD	112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB091-01-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB091	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	12/5/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	11:09	Hand auger	NA	1-2	dark brown	PREVIOUS EXCAVATION FILL

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	11:09	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2
✗	12/1/06	11:09	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	was submitted to lab but left off of COC #2 when As sample was submitted	

General Observations and Notes

No Notes

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB091-06-120106	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	12/1/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB091	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	12/1/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
12/1/06	11:22	Hand auger	NA	5-6	light grey	SANDY CLAY

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	11:22	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap		112G00497-1212006-2
✓	12/1/06	11:22	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB092-01-112906	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB092	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/29/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:30	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:30	SW-846 6010B or 6020	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB092-06-112906	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB092	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/29/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:36	SW-846 6010B or 6020	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:36	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB093-01-112906	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB093	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/29/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:12	SW-846 6010B or 6020	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:12	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB093-06-112906	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB093	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/29/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:21	SW-846 6010B or 6020	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:21	SW-846 8081A	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB094-01-112806	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB094	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/28/06
QA Sample Type		**Concentration**	Not known	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/28/06	13:58	Hand auger	NA	0-1	Other	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:00	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/28/06	14:00	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB094-06-112806	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB094	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/29/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:25	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/28/06	14:25	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB095-01-112806	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB095	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/28/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:41	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/28/06	14:41	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB095-06-112806	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB095	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/28/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	14:46	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/28/06	14:46	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB096-01-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB096	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	14:22	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	14:23	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	14:23	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB096-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB096	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	14:30	Hand auger	NA	4-5 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	14:30	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	14:30	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB097-01-112806	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB097	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/28/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	15:10	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/28/06	15:10	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB097-06-112806	**Created By**	Curtis Odom
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB097	**Modified By**	Curtis Odom
WBS Code #		**Sampled By**	Curtis Odom	**Modified Date**	11/28/06
QA Sample Type		**Concentration**		**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/28/06	15:15	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/28/06	15:15	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB098-01-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB098-01-113006	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	14:54	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	15:11	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	15:11	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB098-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB098	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	15:12	Hand auger	NA	4-5 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	15:13	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	15:13	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB099-01-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB099	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	15:19	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	15:25	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	15:25	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB099-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB099	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	15:24	Hand auger	NA	4-5	light grey	Clayey Sand

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	15:30	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	15:30	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB100-01-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB100	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	15:35	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	15:35	SW-846 6010B or 6020	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected	112G00497-1212006-2
✓	11/30/06	15:35	SW-846 8081A	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected	112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB100-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB100	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	15:43	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	15:46	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	15:46	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB101-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB101	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	14:24	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	14:24	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	14:24	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB101-05-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB101	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	14:34	Hand auger	NA	4-5 ft	grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	14:35	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	14:35	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB102-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB102	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	14:49	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	14:49	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	14:49	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB102-05-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB102	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Jon Foster	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	15:00	Hand auger	NA	4-5 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	15:03	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	15:03	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB103-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB103	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	10:35	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	10:35	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	10:35	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB103-05-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB103	**Modified By**	
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	10:42	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	11:00	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	11:00	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB104-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB104	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	10:02	Hand auger	NA	0-1	light grey	Sample collected in asphalt-paved area

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	10:03	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	10:03	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB104-05-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB104-05-112906	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	10:13	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	10:14	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	10:14	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB105-01-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB105	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	16:10	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	16:10	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	16:10	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB105-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB105	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	16:15	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	16:15	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	16:15	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB106-01-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB106	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	16:24	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	16:24	SW-846 6010B or 6020	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	16:24	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB106-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB106	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	16:29	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	16:29	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	16:29	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB107-01-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB107	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	16:38	Hand auger	NA	0-1 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	16:38	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	16:38	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB107-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB107	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	16:43	Hand auger	NA	4-5 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	16:44	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	16:44	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB108-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/28/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB108	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Scott McGuire	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	08:33	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	08:33	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	08:33	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB108-06-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB108	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	08:48	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	08:49	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	08:49	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB109-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB109	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	09:19	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:19	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:19	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB109-06-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB109	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	09:45	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:45	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:45	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB110-01-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB110	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	15:51	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	15:52	SW-846 6010B or 6020	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected	112G00497-1212006-2
✓	11/30/06	15:52	SW-846 8081A	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected	112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB110-05-113006	**Created By**	Charles Metz
TtNUS Project #	112G00497			**Created Date**	11/30/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB110	**Modified By**	Charles Metz
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/30/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/30/06	16:00	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	16:00	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2
✓	11/30/06	16:00	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB111-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB111	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	13:11	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	13:12	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	13:12	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB111-05-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB111	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	13:19	Hand auger	NA	4-5	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	13:20	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	13:20	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB112-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB112	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	12:52	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	12:52	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	12:52	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB112-05-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB112	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	Charles Metz	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	12:57	Hand auger	NA	4-5 ft	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	13:00	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	13:00	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB113-01-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB113	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	09:01	Hand auger	NA	0-1	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:02	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:02	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL SEDIMENT SAMPLING LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Project Information

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-SB113-06-112906	**Created By**	Scott McGuire
TtNUS Project #	112G00497			**Created Date**	11/29/06
Task/Contract #	CTO 0047	**Sample Location ID**	JAX47-SB113-06-112906	**Modified By**	Scott McGuire
WBS Code #		**Sampled By**	John Wright	**Modified Date**	11/29/06
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Charles Metz
Status	Working			**Printed Date**	5/8/07

Sample Collection Records

Date	Time	Method	Monitor (ppm)	Depth (ft)	Color	Description
11/29/06	09:08	Hand auger	NA	5-6	light grey	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	09:15	SW-846 6010B or 6020	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1
✓	11/29/06	09:15	SW-846 8081A	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB114-01-030907
Sample Location: SB114
Sampled By: CM/JH
C.O.C. No.:

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0-6"	gray/brn	dry medium sand
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Pesticides	(1) oz. Glass Jar	NO	ENCO
Arsenic	(1) oz. Glass Jar	Yes	ENCO

OBSERVATIONS / NOTES:

None

MAP:

See CTO 47 log book

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB114-05-030907
Sample Location: SB114
Sampled By: CM/JH
C.O.C. No.:

[] Surface Soil (SS)
[X] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	4.5-5'	orange/brn	medium sandy clay moist
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Pesticides	(1) oz. Glass Jar	No	ENCO
Arsenic	(1) oz. Glass Jar	Yes	ENCO

OBSERVATIONS / NOTES:

None

MAP:

See CTO 47 logbook

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB115-01-030907
Sample Location: SB115
Sampled By: CM/JH
C.O.C. No.: —

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0-0.5'	gray	fine-medium sand
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Pesticides	(1) oz. Glass Jar	No	ENCO
Arsenic	(1) oz. Glass Jar	Yes	ENCO

OBSERVATIONS / NOTES:

None

MAP:

See CTO 47 logbook

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

CM

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB11S-05-030907
Sample Location: SB11S
Sampled By: CM/JH
C.O.C. No.: —

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	4.5 – 5'	gray/brn	moist/medium sand
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Pesticides	(1) oz. Glass Jar	NO	ENCO
Arsenic	(1) oz. Glass Jar	Yes	ENCO

OBSERVATIONS / NOTES:

None

MAP:

See CTO 47 Logbook

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

CM

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB116-01-030907
Sample Location: SB116
Sampled By: CM/JH
C.O.C. No.: —

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0.5 - 1'	brn	medium sand
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Pesticides	(1) oz. Glass Jar	NO	ENCO
Arsenic	(1) oz. Glass Jar	Yes	ENCO

OBSERVATIONS / NOTES:

Sample was collected in Asphalt parking lot in front of B~~1~~937. There was 2' of Asphalt and 4' of lime rock. Sample was collected below lime rock base.

MAP:

See CTO 47 Logbook

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

CM

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB117-01-030907
Sample Location: SB117
Sampled By: CM/JH
C.O.C. No.: —

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method: Hand Auger	0.5 – 1'	gray/brwn	medium sand
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Pesticides	(1) oz. Glass Jar	NO	ENCO
Arsenic	(1) oz. Glass Jar	Yes	ENCO

OBSERVATIONS / NOTES:

Collected sample below Asphalt (0-2") and limerock base (2-6").

MAP:

See CTO 47 Logbook

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAx47-SB118-01-0307
Sample Location: SB118
Sampled By: TC
C.O.C. No.: 2539

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 3/13/07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1109	0.5-1'	Lt Brown	very fine Sand
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

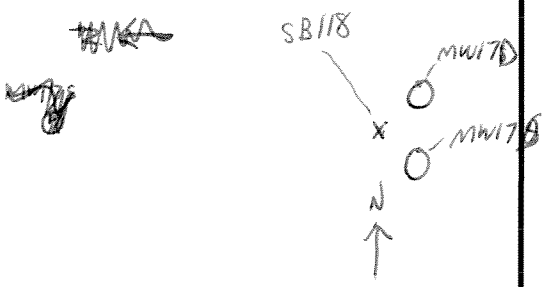
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
~~PCB~~	~~(1) 8oz. Glass Jar~~		~~Accutest~~
~~TAL METALS~~	(3) 8oz Jars	Y	ENCO
TCL Pesticides	↓	↓	↓
TCL SVOCs	↓	↓	↓
TCL Herbicides	↓	↓	↓
TCL VOCs	(1) 40mL glass vial w/MeOH	Y	↓
	(3) 40mL glass vials w/DI	Y	↓

OBSERVATIONS / NOTES:

2" of asphat and 4" of limerock base.
sample collected ~~base~~ below this.

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Terry Cotton

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB118-03-0307
Sample Location: SB118
Sampled By: TC
C.O.C. No.: 2539

[] Surface Soil (SS)
[X] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 3/13/07 Time: 1125 Method: Hand Auger Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	2 - 3 ft	White	Very fine sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

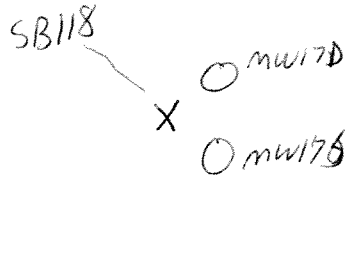
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
~~PCB~~	~~(1) 8oz. Glass Jar~~		~~Accutest~~
~~TAL Metals~~	(3) 8oz Glass Jar	Yes	ENCO
TCL Pesticides	↓	↓	↓
TCL SVOCs	↓	↓	↓
TCL Herbicides	↓	↓	↓
TCL VOCs	(2) 40mL glass vials w/MeOH	↓	↓
TCL VOCs	(3) 40mL glass vials w/DI	↓	↓

OBSERVATIONS / NOTES:

None

MAP:



Circle if Applicable:

MS/MSD (Yes)

Duplicate ID No.:

Signature(s):

Tony Cotton

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAY47-SB119-01-030907
Sample Location: SB119
Sampled By: CM/JH
C.O.C. No.:

[X] Surface Soil (SS)
[ ] Subsurface Soil (SU)
[ ] Sediment (SD)
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0.5-1'	gray/brn	medium sand dry
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Pesticides	(1) oz. Glass Jar	NO	ENCO
Arsenic	(1) oz. Glass Jar	Yes	ENCO

OBSERVATIONS / NOTES:

There was 6" of limerock on ground surface so sample was collected below that

MAP:

See CTO 47 Logbook

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAK47-SB119-05-030907
Sample Location: SB119
Sampled By: CM/JH
C.O.C. No.:

- [] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [] Sediment (SD)
- [] Other:
- [] QA Sample Type:

Type of Sample:
- [] Low Concentration
- [] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	4-5	brn/gray	moist medium sand
Method: Hand Auger			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Pesticides	(1) oz. Glass Jar	NO	ENCO
Arsenic	(1) oz. Glass Jar	YES	ENCO

OBSERVATIONS / NOTES:

MS/MSD collected

MAP:

See CTO 47 logbook

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

CM

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB120-01-031207
Sample Location: SB120
Sampled By: CM
C.O.C. No.: 031207

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 3-12-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0900	0.5 – 1'	brn	dry medium sand
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
~~PCB~~	~~(1) 8oz Glass Jar~~		~~Accutest~~
Pesticides			ENCO
Metals			
PAHs + SVOCs			
VOAs	4 40mL vials		

OBSERVATIONS / NOTES:

Sample collected below asphalt and limerock road base. Collected beside wells MW17S and MW17D.

MAP:

See CTO 47 log book

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

CM

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: PSC 47
Project No.: 112G00497

Sample ID No.: JAX47-SB121-0
Sample Location: SB121
Sampled By: CM
C.O.C. No.:

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 3-9-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	0-0.5	brn/blk	dry medium sand
Method: Hand Auger			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
~~PCB~~	~~(1) 8oz. Glass Jar~~		~~Accutest~~
Pesticides (8081A)	(1) 4oz. Glass Jar	Yes	ENCO

OBSERVATIONS / NOTES:

None

MAP:

See LTO 47 log book

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

CM

APPENDIX H

GROUNDWATER SAMPLING LOGS AND LOW FLOW PURGE SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-536-MW03-01- 040902
Sample Location: JAX47-536-MW03
Sampled By: L. MIDDLETON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4/9/2	Color	pH	S.C.	Temp.	Turbidity	DO	DTW	~~Flow Rate~~ ORP
Time: 1230	Visual	Standard	mS/cm	°C	NTU	mg/l		
Method: Low Flow Peristaltic	LT BROWN	5.98	29.79	23.0	14	4.83	-	-35 -47

PURGE DATA

Date: 4/9/2	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate
Method: Low Flow Peristaltic	1150	—	—	—	—	—	—	250
Monitor Reading (ppm): 0	1155	6.01	27.97	23.0	102	4.32	—	250
Well Casing Diameter: 1.75"	1200	5.99	28.60	23.0	63	3.95	—	250
Well Casing Material: PVC	1205	5.97	29.09	23.0	32	3.77	—	250
Total Well Depth (TD):	1210	5.98	29.38	22.9	21	3.86	—	250
Static Water Level (WL):	1215	5.98	29.79	22.9	18	5.65	—	250
One Casing Volume(gal/L): 2.4	1220	5.98	29.78	23.0	14	4.83	—	250
Start Purge (hrs): 1150	END PURGE							
End Purge (hrs): 1220								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 7.5								

Vol
1.25
2.50
3.75
5.0
6.25
7.5

PROBE WOULD NOT FIT IN WELL

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - I Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 110$ ALK = 60 $H_2S = 5$ MN = 0

DO = 2 Fe = 3.18 $S^{-2} = 0.38$ SMELLS LIKE PETROLEUM

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-937-MW01S-01- 041102
Sample Location: JAX47-937-MW01S
Sampled By: L. Knight
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: / Time:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate
Method: Low Flow Peristaltic								

PURGE DATA

Date:	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate (ml/min)	EST. CUM VOL
Method: Low Flow Peristaltic	1025	–	–	–	–	–	5.99	306	300
Monitor Reading (ppm):	1035	5.48	38.30	21.90	17.5	0.14	6.21	300	3
Well Casing Diameter:	1045	5.49	38.54	21.89	12.0	0.11	6.23	300	6
Well Casing Material:	1055	5.49	37.69	21.89	6.7	0.23	6.24	300	9
Total Well Depth (TD): 14.93	1105	5.49	37.39	21.89	6.6	0.11	6.24	300	12
Static Water Level (WL): 5.99	1115	5.50	37.36	21.87	0	0.12	6.24	300	15
One Casing Volume(gal/L): 5.6	1125	5.48	37.31	21.90	0	0.14	6.21	300	18
Start Purge (hrs): 1025									
End Purge (hrs): 1125									
Total Purge Time (min): 60									
Total Vol. Purged (gal/L): 18L									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	
* See Notes			

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

*Will also collect TCL SVOCs, TAL Metals, and PCBs at this location.

NA

DO = 0.3 S = 0.25 Fe - 73.30 Mn - 0

ALK = 18 CO_2 = 150 H_2S -

Circle If Applicable:

MS/MSD

Duplicate ID No.: JAX47-DUP03-041102

Signature(s): Jacie Knight

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-937-MW02S-01-041002
Sample Location: JAX47-937-MW02S
Sampled By: L. MEDDLETON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4/10/02 Time: 1405	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	~~Flow Rate~~
Method: Low Flow Peristaltic	CLEAR	5.61	104.5	22.3	18.4	0.29	5.86	400 ~~ml/min~~ 83.0

PURGE DATA

Date: 4/10	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate
Method: Low Flow Peristaltic	1325	—	—	—	—	—	5.70	400
Monitor Reading (ppm): 0	1335	5.70	108.5	22.4	66.0	1.43	5.84	400
Well Casing Diameter: 2"	1345	5.65	108.6	22.3	84.5	0.54	5.86	400
Well Casing Material: PVC	1350	5.64	109.5	22.3	52.5	0.48	5.86	400
Total Well Depth (TD): 13.81	1355	5.63	108.2	22.3	33.2	0.37	5.86	400
Static Water Level (WL): 5.70	1400	5.62	105.7	22.3	23.6	0.32	5.86	400
One Casing Volume(gal): 0.50	1405	5.61	104.5	22.3	18.4	0.29	5.86	400
Start Purge (hrs): 1325	End Purge							
End Purge (hrs): 1405								
Total Purge Time (min): 40								
Total Vol. Purged (gal): 0.16								

Vol	
—	—
4	9(
8	8
10	8
12	8
14	8
16	8

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 170$ ALK = 50 $H_2S = 0.1$ MN = 0.4

DO = 1 Fe = 0.325 $S^{-2} = 0.04$

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-937-MW03S-01-
Sample Location: JAX47-937-MW03S
Sampled By: L. KNIGHT
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4-11-02 / Time: 0910	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate
Method: Low Flow Peristaltic								

PURGE DATA

Date: 4-11-02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate (ml/min)	Est Cum Vol	OR
Method: Low Peristaltic	0825	–	–	–	–	–	5.72	410		
Monitor Reading (ppm):	0835	5.72	19.76	20.99	61.8	(?)	5.94	400	4L	
Well Casing Diameter: 2"	0845	5.64	17.56	21.04	18.4	(?)	5.95	400	8L	39.
Well Casing Material: PVC	0855	5.59	17.65	21.06	31.4	(?)	5.94	350	11.5	39.
Total Well Depth (TD): 12.78	0905	5.54	16.39	21.06	12.4	(?)	5.94	350	15L	39.
Static Water Level (WL): 5.72	0910	5.52	15.62	21.06	9.8	(?)	5.94	350	17L	38
One Casing Volume(gal/L):	0910	COLLECTED SAMPLE								
Start Purge (hrs): 0825										
End Purge (hrs): 0910										
Total Purge Time (min): 45										
Total Vol. Purged (gal/L): 17										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

(?) DO READINGS ARE NEGATIVE Hrs ON THIS YSI INSTRUMENT
DO = 0.8 ALK = 25 H_2S = 0.3 MN = 0
CO_2 = 70 Fe = 3.25 S^{-2} = 0.06

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s): Louis Knight

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-937-MW04S-01- 04/11/12
Sample Location: JAX47-937-MW04S
Sampled By: L. MIDDLETON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4/11/12 Time: 1125	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	clear	4.75	124.3	23.56	29	0	5.01		-95.5

PURGE DATA

Date: 4/11/12	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	Vol	ORP
Method: Low Flow Peristaltic	1030	—	—	—	—	—	4.80	300	—	—
Monitor Reading (ppm): 0	1040	4.74	124.9	23.5	220	0	4.97	300	3	-12
Well Casing Diameter: 2"	1045	4.74	125.4	23.4	123	0	5.00	300	4.5	-10
Well Casing Material: PVC	1050	4.73	128.8	23.4	102	0	5.01	300	6	-9
Total Well Depth (TD): 11.91	1100	4.73	128.3	23.3	62	0	5.01	300	9	-9
Static Water Level (WL): 4.80	1110	4.76	120.3	23.5	49	0	5.01	300	12	—
One Casing Volume(gal): 4.4	1115	4.75	124.3	23.56	29	0	5.01	~~300~~ 750 (N)	13.5	-9
Start Purge (hrs): 1030										
End Purge (hrs): 1120										
Total Purge Time (min): 50										
Total Vol. Purged (gal/L): 5										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - I Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (~~Filtered and~~ Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X
Diss Fe/Mn (Filtered)	HNO3	1 - 250 ml HDPE	X

OBSERVATIONS / NOTES

* Strong sulfur smell
* too much HCl

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

CO_2 = * Alk = ~~10~~ <10 H_2S = >5 Mn = 0.9

DO = * Fe = >3.30 S^{-2} = >0.80

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Page___ of ___

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-937-MW05S-01-
Sample Location: JAX47-937-MW05S
Sampled By: L. KNIGHT
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.10.02 Time: 1440	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	~~Flow Rate~~ ORP
Method: Low Flow Peristaltic	LT GREEN	6.52	216.2	23.15	2.4	0	5.90	46.7

PURGE DATA

Date: 4.10.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate (ml/m)	EST CUM VOL	ORP
Method: Low Flow Peristaltic	1335	—	—	—	—	—	5.32	350	—	—
Monitor Reading (ppm): 0	1345	6.52	258	23.21	384	0	5.88	260		-5.5
Well Casing Diameter: 2"	1355	6.54	256.7	23.22	216	0	5.88	260	6	-17.1
Well Casing Material: PVC	1405	6.54	239.7	23.16	33.0	0	5.88	260	8.6	-31.
Total Well Depth (TD): 12.82	1415	6.53	231.4	23.13	8.2	0	5.89	260	10.2	-40.
Static Water Level (WL): 5.32	1425	6.53	223.3	23.21	3.7	0	5.90	260	13.8	-45.
One Casing Volume(gal/L):	1435	6.52	216.2	23.15	2.4	0	5.90	260	16.4	-46.
Start Purge (hrs): 1335	1440	BEGIN SAMPLING								
End Purge (hrs): 1440	End Purge									
Total Purge Time (min): 55										
Total Vol. Purged (gal/L): 17.7										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 30$ ALK = 250 $H_2S = 0.3$ $MN = 0.5$

$DO = 1$ $Fe = 3.16$ $S^{-2} = 0.02$

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Louis Knight

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-937-MW06D-01-040102
Sample Location: JAX47-937-MW06D
Sampled By: L. Middleton
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.11.02 / Time: 0920	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate
Method: Low Flow Peristaltic	CLEAR							

PURGE DATA

Date: 4.11.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	Vol	Cum
Method: Low Flow Peristaltic	0830	—	—	—	—	—	5.56	300	—	—
Monitor Reading (ppm): 0	0840	5.31	34.72	23.1	20.7	0	5.78	300	3	12
Well Casing Diameter: 2"	0845	5.30	35.06	23.2	12.8	0	5.79	300	4.5	16
Well Casing Material: PVC	0850	5.29	35.05	23.2	11.0	0	5.79	300	6	12
Total Well Depth (TD): 34.82	0855	5.29	34.93	23.2	9.9	0	5.79	300	7.5	12
Static Water Level (WL): 5.56	0900	5.28	34.49	23.2	6.9	0	5.79	300	9.0	12
One Casing Volume(gal): 3.1	0910	5.28	34.63	23.2	5.6	0	5.79	300	10.5	12
Start Purge (hrs): 0830						0 ORP				
End Purge (hrs): 0910										
Total Purge Time (min): 40										
Total Vol. Purged (gal): 10.5										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X
*See Notes			

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

*Will also collect TCL SVOCs, TAL Metals, and PCBs

DO = 0.6 ALK = 11 H_2S = 0 MN = 0

CO_2 = 40 Fe = 3.16 S^{-2} = 0.03

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Page___ of ___

(USGS-55MW45)

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX-47-USGS(S)-040902
Sample Location: USGS Shallow
Sampled By: L. KNIGHT
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.9.02 / Time: 1550	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	LT ORANGE	4.63	63.22	20.22	18.6	0	7.03	300	116.2

PURGE DATA

Date: 4/9/2	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	Est. cum. Vol.	OR
Method: Low Flow Peristaltic	1450	—	—	—	—	—	6.65	300		
Monitor Reading (ppm): 0	1500	4.90	76.29	20.32	466.4	0	7.02	300	3L	196
Well Casing Diameter: 2"	1510	4.73	68.23	20.32	97.1	0	7.03	300	6	2
Well Casing Material: PVC	1520	4.69	64.69	20.26	38.1	0	7.03	300	9	21
Total Well Depth (TD): 17.05	1530	4.66	64.32	20.20	27.6	0	7.03	300	12	28
Static Water Level (WL): 6.65	1535	4.62	64.19	20.25	24.8	0	7.03	300	13.5	95
One Casing Volume(gal/L): 5.1	1541	4.63	63.22	20.22	18.6	0	7.03	300	15.3	16
Start Purge (hrs): 1450										
End Purge (hrs): 1541	END PURGE									
Total Purge Time (min): 51										
Total Vol. Purged (gal/L): 15.3										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X
*See Notes			

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

*Will also collect TCL SVOCs, TAL Metals, and PCBs ✓

$CO_2 = 40$ ALK = 0 $H_2S = 0$ MN = 1.0

DO = 2 Fe = 3.01 $S^{-2} = 0.04$

Circle If Applicable:		Signature(s)
MS/MSD	Duplicate ID No.:	Louis Knight

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Page___ of ___

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: (USGS-DS MW46) JAX-47-USGS(A)-040901
Sample Location: USGS Deep
Sampled By: L. MIDDLETON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4/9/2	Color	pH	S.C.	Temp.	Turbidity	DO	DTW	~~Flow Rate~~
Time: 0945	Visual	Standard	mS/cm	°C	NTU	mg/l		ORP
Method: Low Flow Peristaltic	CLEAR	4.62	31.21	21.6	8.6	0	4.19	295

PURGE DATA

Date: 4/9/2	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate
Method: Low Flow Peristaltic	0910	4.67	31.28	21.4	22	0	4.20	300
Monitor Reading (ppm): 0	0915	4.66	30.85	21.4	17	0	4.20	300
Well Casing Diameter: 2"	0920	4.64	30.69	21.4	19	0	4.19	300
Well Casing Material: PVC	0925	4.62	31.18	21.6	13	0	4.19	300
Total Well Depth (TD): 47.65	0930	4.62	31.17	21.6	12	0	4.19	300
Static Water Level (WL): 7.91	0935	4.62	31.21	21.6	8.6	0	4.19	300
One Casing Volume(gal/L): 3.1	END PURGE							
Start Purge (hrs): 0900								
End Purge (hrs): 0935								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 10.5								

Vol	ORP
3	29
4.5	22
6.0	2
7.5	29
9	29
10.5	29

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X
*See Notes			

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

*Will also collect TCL SVOCs, TAL Metals, and PCBs ✓

$CO_2 = 0$ ALK = 0 $H_2S = 0$ MN = 0

DO = 1.0 Fe = 0.21 $S^{-2} = 0.07$

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW10S-01-040902
Sample Location: JAX-47-MW10S
Sampled By: L. KNIGHT
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4-9-02 / Time: 1300	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	~~Flow Rate~~ OTP
Method: Low Flow Peristaltic	CLEAR	5.57	42.0	22.35	13.1	0	5.12	230.9

PURGE DATA

Date: 4-9-02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate (ml/min)	Est cum vol	OK
Method: Low Flow Peristaltic	1205	—	—	—	—	—	4.89	400		
Monitor Reading (ppm): 0	1215	6.08	63.32	21.91	216.2	0	5.13	400	4L	
Well Casing Diameter: 2"	1225	5.80	49.55	21.93	90.0	0	5.12	400	8L	22
Well Casing Material: PVC	1230									22
Total Well Depth (TD):	1235	5.71	46.56	21.94	36.3	0	5.12	400	12L	22
Static Water Level (WL): 4.89	1240									22
One Casing Volume(gal/L):	1245	5.67	44.97	21.89	26.1	0	5.12	400	16L	22
Start Purge (hrs): 1205										23
End Purge (hrs): 1255	1255	5.57	42.21	22.35	13.1	0	5.12	400	20L	23
Total Purge Time (min): 50	End Purge									
Total Vol. Purged (gal/L): 20										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - I Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: Cl_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 100$ Alk = 35 $H_2S = 0$ MN = 0

DO = 1 Fe = 0.25 $S^{-2} = 0.13$

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Louis Knight

Page___ of ___

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW11S-01-040402
Sample Location: JAX-47-MW11S
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.4.02 / Time: 1850	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	clear	4.53	34.13	21.68	2.4	0.23	5.22	350	209.3

PURGE DATA

Date: 4.4.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	1754	4.52	35.48	21.72	29.6	—	5.25	500	285.8
Monitor Reading (ppm): Ø	1804	4.51	35.09	21.69	10.2	0.35	5.27	500	263.3
Well Casing Diameter: 2"	1814	4.53	34.56	21.69	~~54.6~~	0.32	5.23	350	251.8
Well Casing Material: PVC	1824	4.53	34.43	21.68	6.3	0.30	5.22	350	236.1
Total Well Depth (TD): 14.40	1834	4.52	34.18	21.71	2.6	0.24	5.22	350	213.5
Static Water Level (WL): 5.12	1844	4.53	34.13	21.68	2.4	0.23	5.22	350	209.3
One Casing Volume(gal/L): 1.6									
Start Purge (hrs): 1744									
End Purge (hrs): 1844									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	Yes
TCL Pesticides	None	2 - 1Liter Ambers	Yes
OP Pesticides	None	2 - 1 Liter Ambers	Yes
TCL Herbicides*	None	2 - 1 Liter Ambers	Yes
TOC	H_2SO_4	1 - 125 ml Amber	Yes
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	Yes
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	Yes
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (~~Filtered and~~ Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	Yes
Diss Fe/Mn Filtered	HNO_3	1-250ml HDPE	
		17 Total Bottles	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

CO_2 - Alk- H_2S - 0 Mn - 0.2

DO - 0.4 Fe - 0.56 S - 0.01

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

3.4

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

Sample ID No.: JAX47-MW11D-01-040402
Sample Location: JAX-47-MW11D
Sampled By:
C.O.C. No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: / Time:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate
Method: Low Flow Peristaltic								

PURGE DATA

Date: 4.4.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	1754	7.38	39.55	23.22	338.2	0.66	8.90	400	
Monitor Reading (ppm):	1804	7.36	41.56	23.21	69.2	0.30	8.95	~~275~~ 400	-58.8
Well Casing Diameter: 2"	1814	7.38	41.55	23.15	37.4	0.28	8.45	275	-72.2
Well Casing Material: PVC	1824	7.39	40.98	23.10	37.3	0.26	8.45	275	-75.8
Total Well Depth (TD):	1834	7.40	40.66	23.00	26.4	0.26	8.45	200	-54.3
Static Water Level (WL): 6.64	1844	7.40	40.31	22.97	16.4	0.24	8.45	200	-54.4
One Casing Volume(gal/L): 1.6	1854	7.40	40.30	22.96	16.8	0.24	8.45	200	-54.6
Start Purge (hrs): 1744	1904	7.40	40.11	22.89	13.8	0.24	8.45	~~200~~ 175	-54.9
End Purge (hrs): 1904	1914	7.40	39.82	22.87	10.2	0.24	8.42	150	-54.8
Total Purge Time (min): ~~1.80~~	1924	7.41	39.46	22.87	10.6	0.24	8.40	150	-55.0
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	Yes
TCL Pesticides	None	2 - 1Liter Ambers	Yes
OP Pesticides	None	2 - 1 Liter Ambers	Yes
TCL Herbicides*	None	2 - 1 Liter Ambers	Yes
TOC	H_2SO_4	1 - 125 ml Amber	Yes
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	Yes
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	Yes
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - I Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn ~~(Filtered and~~ Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	Yes
Diss Fe/Mn - Filtered	HNO_3	1-250 ml HDPE	
		17 Bottles Total	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

CO_2 - Alk - H_2S - 0 Mn - 0.2

DO - 0.5 Fe - 0.23 S - 0.03

Circle If Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW12S-01-
Sample Location: JAX-47-MW12S
Sampled By: L. KNIGHT
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.10.02 / Time: 1050	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate ORP	Est CUM VOL.	OR
Method: Low Flow Peristaltic	CLEAR	4.45	27.09	22.26	9.2	0	5.95	315		

PURGE DATA

Date: 4.10.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate (ML/Min)		
Method: Low Flow Peristaltic	0830	—	—	—	—	—		500		
Monitor Reading (ppm): 0	0840	4.49	30.40	22.19	126.7	0	5.96	500	5	
Well Casing Diameter: 2"	0845	4.48	28.64	22.18	145.5	0	5.96	500		262
Well Casing Material: PVC	0850	STOP PUMP - Go to YORKTOWN GATE (SURVEYORS)								
Total Well Depth (TD): 14.78	1020	RESUME PURGE								
Static Water Level (WL): 5.75	1025	4.50	29.26	22.31	17.0	0	5.94	500	12L	306
One Casing Volume(gal/L):	1030	4.48	27.30	22.29	13.0	0	5.95	500	16L	311
Start Purge (hrs): 0830	1035	4.46	27.01	22.27	9.8	0	5.95	500	20L	314
End Purge (hrs): 1040	1040	4.45	27.09	22.26	9.2	0	5.95	500	22L	315
Total Purge Time (min): 130	End Purge									
Total Vol. Purged (gal/L): 22L										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 35$ ALK = 0 $H_2S = 0$ $Mn = 0.1$

$DO = 2$ $Fe = 0.04$ $S^{-2} = 0$

Circle if Applicable:
MS/MSD Duplicate ID No.:

Signature(s): Louis Knight

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW13S-01-040402
Sample Location: JAX-47-MW13S
Sampled By: L. KNIGHT
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.4.02 / Time: 1600	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate
Method: Low Flow Peristaltic								

PURGE DATA

Date: 4.4.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate (ml/min)	CUM VOL (L)
Method: Low Flow Peristaltic	1450	4.69	20.66	23.96	13.2	13.7	5.30	220	
Monitor Reading (ppm):	1510	4.66	36.14	24.44	8.3	6.9	5.30	220	9L
Well Casing Diameter: 2"	1520	4.66	36.90	23.98	6.3	6.8	5.30	220	11.2L
Well Casing Material: PVC	1530	4.66	37.20	23.75	6.6	5.6	5.30	220	13.4
Total Well Depth (TD): 14.60	1540	4.66	37.24	23.69	2.8	5.7	5.30	220	18L
Static Water Level (WL): 5.24	1510	4.66	37.94	23.60	1.7	5.1	5:30	220	
One Casing Volume(gal/L):	1600								
Start Purge (hrs): 1430									
End Purge (hrs): 1600									
Total Purge Time (min): 80									
Total Vol. Purged (gal/L): 20L									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

Will also collect TCL SVOCs, PCBs, and TAL Metals for this well

(1) CUMULATIVE ESTIMATE CORRECTION

NA: $H_2S = 0$ SULFIDE = 0.0
FE = 0.09 MN = 0.3
DO = 0.3

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

Sample ID No.: JAX47-MW13D-01-040402
Sample Location: JAX-47-MW13D
Sampled By:
C.O.C. No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.4.02 / Time: 1610	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate
Method: Low Flow Peristaltic								

PURGE DATA

Date: 4.4.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	1450	6.43	19.17	24.77	507.1	0.59	6.50	450	
Monitor Reading (ppm): 0	1455	6.40	19.02	24.29	439.8	0.43	6.51	450	14.1
Well Casing Diameter: 2"	1505	6.35	17.33	24.31	402.8	0.37	6.50	300	19.2
Well Casing Material: PVC	1515	6.36	16.52	24.30	517.0	0.34	6.50	300	20.5
Total Well Depth (TD): 49.30	1525	6.27	14.30	24.22	423.2	0.26	6.50	300	32.1
Static Water Level (WL): 6.03	1535	6.27	13.40	24.59	623.0	0.30	6.50	300	36.0
One Casing Volume(gal/L): 1.6	1545	6.22	12.75	24.37	618.6	0.27	6.50	300	42.0
Start Purge (hrs): 1431	1555	6.19	12.24	24.32	508.4	0.26	6.51	300	44.7
End Purge (hrs): 1605	1605	6.18	11.92	24.30	497.7	0.24	6.50	300	47.8
Total Purge Time (min):									
Total Vol. Purged (gal/L): 8.0									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	Yes
TCL Pesticides	None	2 - 1Liter Ambers	Yes
OP Pesticides	None	2 - 1 Liter Ambers	Yes
TCL Herbicides*	None	2 - 1 Liter Ambers	Yes
TOC	H_2SO_4	1 - 125 ml Amber	Yes
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	Yes
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	Yes
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	Yes
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	Yes
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	Yes

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

Will also collect (TCL SVOCs) (PCBs), and (TAL Metals) for this well

CO_2 - Alk- H_2S - 0 Mn - 0

DO - 0.4 Fe - 1.77 Sulf - 0.72

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Page___ of ___

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW14D-01-041002
Sample Location: JAX-47-MW14D
Sampled By: L. MIDDLETON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4/10/12 Time: 0930	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	~~Flow Rate~~ ORP
Method: Low Flow Peristaltic	CLEAR	6.57	23.56	22.2	15	0.09	5.48	39.2

PURGE DATA

Date: 4/10/12	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	Vol	OR
Method: Low Flow Peristaltic	0850	—	—	—	—	—	5.28	300	—	—
Monitor Reading (ppm): 0	0900	6.36	22.65	22.1	60	0.34	5.47	300	3	67.
Well Casing Diameter: 2"	0905	6.45	23.32	22.1	33	0.14	5.48	300	4.5	52.
Well Casing Material: PVC	0910	6.46	23.34	22.1	30	0.13	5.48	300	6	51.
Total Well Depth (TD): 47.50	0915	6.57	23.60	22.2	18	0.09	5.48	300	7.5	40
Static Water Level (WL): 5.28	0920	6.57	23.58	22.2	16	0.07	5.48	300	9	40.
One Casing Volume(gal/L): 3.1	0922	6.57	23.56	22.2	15	0.09	5.48	300	9.6	39
Start Purge (hrs): 0850	End Purge									
End Purge (hrs): 0922										
Total Purge Time (min): 32										
Total Vol. Purged (gal/L): 9.6										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 16$ ALK = 70 $H_2S = 0$ MN = 0.0

DO = 2 Fe = 0.18 $S^{-2} = 0.03$

Circle if Applicable: MS/MSD

Duplicate ID No.: 041002 JAX47-DUP02-041002

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW15S-01-040802
Sample Location: JAX-47-MW15S
Sampled By: L. MEDDLETON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4/8/02 Time: 1255	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate
Method: Low Flow Peristaltic	CLEAR	5.00	17.07	22.10	0	0	5.09	300

PURGE DATA

Date: 4/8/02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate (ml/min)	Est. Cum. Vol
Method: Low Flow Peristaltic	1200	5.05	17.24	22.9	0	0	5.08	300	3
Monitor Reading (ppm): 0	1210	5.03	17.09	22.9	0	0	5.09	300	6
Well Casing Diameter: 2"	1220	5.03	17.07	22.0	0	0	5.09	300	9
Well Casing Material: PVC	1230	4.99	17.07	21.57	0	0	5.09	300	12
Total Well Depth (TD): 13.03	1235	4.99	16.97	21.93	0	0	5.09	300	13.5
Static Water Level (WL): 4.88	1240	4.99	17.08	21.96	0	0	5.09	300	15
One Casing Volume(gal/L): 5.1	1245	5.00	17.01	22.10	0	0	5.09	300	16.5
Start Purge (hrs): 1150									
End Purge (hrs): 1245	END PURGE								
Total Purge Time (min): 55									
Total Vol. Purged (gal/L): 16.5									

9 OR 2

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 30$ $Fe = 0$ $Mn = 0.4$
$DO = 2$ $H_2S = 0$
$Alk = 0$ $S^2 = 0.04$

Circle If Applicable:

MS/MSD

Duplicate ID No.: JAX-47-DUP01-040802

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW15D-01-
Sample Location: JAX-47-MW15D
Sampled By: L. KNIGHT
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4. / Time:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	~~Flow Rate~~ ORP
Method: Low Flow Peristaltic		6.45	24.04	22.91	0.8	0.47	7.08	49.3

PURGE DATA

Date: 4-	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	~~Flow Rate~~ (ml/min)	EST. CUM VOL	OR
Method: Low Flow Peristaltic	1155						6.54		—	—
Monitor Reading (ppm): 0	1156						6.75		—	—
Well Casing Diameter: 2"	1205	6.41	20.50	23.04	168	1.35	7.25	300ml	4L	2
Well Casing Material: PVC	1215	6.39	22.80	23.07	47.3	0.86	7.03	↓	7L	4
Total Well Depth (TD): 46.97	1225	6.43	23.38	23.09	34.4	0.82	7.03		9L	4
Static Water Level (WL): 6.54	1235	6.46	24.47	23.04	2.4	0.64	7.10		13L	4
One ~~Casing~~ Screen Volume(gal/L): 3L	1245	6.45	24.04	22.91	0.8	0.47	7.08	↓	1L	4
Start Purge (hrs): 1155	End Purge									
End Purge (hrs): 1245										
Total Purge Time (min): 50										
Total Vol. Purged (gal/L):										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese TUBING CLOGGED W/ SAND INITIALLY, PUMPED AT HIGH RATE, FED TUBING IN FROM TOP OF WATER COLUMN & IT CLEARED UP.

$CO_2 = 18$ ALK = 70 $H_2S = 0$ MN = 0

DO = 1 FE = 0.28 $S^2 = 0.02$

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Louis Knight

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Page___ of ___

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW~~18S~~16-01-
Sample Location: JAX-47-MW~~18S~~16
Sampled By: 16
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4-5-02 / Time: 0915	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	Slightly turbid	5.43	31.25	21.92	33.7	2.80	4.07	100	-28.6

PURGE DATA

Date: 4-5-02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	0709	5.49	22.77	21.89	118.3	1.96	4.10	300	84.0
Monitor Reading (ppm): 0	0719	5.53	29.45	22.00	47.6	1.76	4.12	300	29.9
Well Casing Diameter: 2"	0729	5.53	31.40	22.05	52.3	1.80	4.12	300	12.5
Well Casing Material: PVC	0739	5.52	33.16	22.06	114.2	1.73	4.12	300	-2.6
Total Well Depth (TD): 12.85	0749	5.48	34.10	22:13	44.7	1.83	4.13	300	-28.5
Static Water Level (WL): 3.40	0759	5.45	31.43	22.16	32.6	1.97	4.13	200	-32.8
One Casing Volume(gal/L): 1.6	0809	5.45	30.26	22.03	35.2	1.99	4.13	150	-31.4
Start Purge (hrs): 0659	0819	5.42	28.94	21.82	45.9	2.06	4.13	150	-29.4
End Purge (hrs): 0849	0829	5.40	29.05	21.90	46.9	2.30	4.10	150	-29.5
Total Purge Time (min):	0839	5.43	30.82	21.89	45.9	2.52	4.08	125	-33.0
Total Vol. Purged (~~gal~~/L): 8.5	0849	5.43	31.25	21.92	33.7	2.80	4.07	100	-28.6

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	Yes
TCL Pesticides	None	2 - 1Liter Ambers	Yes
OP Pesticides	None	2 - 1 Liter Ambers	Yes
TCL Herbicides*	None	2 - 1 Liter Ambers	Yes
TOC	H_2SO_4	1 - 125 ml Amber	Yes
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	Yes
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	Yes
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	Yes
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	Yes
Diss. Fe/Mn (~~Filtered and~~ Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	Yes
Diss Fe/Mn (Filtered)	HNO_3	1-250 ml HDPE	Yes

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

CO_2 - 50 Alk- <10 H_2S - 5.0 Mn - 0.5

DO - 4 Fe - ~~73.50~~ 1.36 S→0.80

Circle If Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

16 0.80

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW~~18~~16D-01- 040501
Sample Location: JAX-47-MW~~18~~16D
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.5.02 / Time: 0745	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	~~Flow Rate~~ ORP
Method: Low Flow Peristaltic	clear	6.04	67.33	23.55	3.2	0	6.46	60.4

PURGE DATA

Date: 4.5.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	0709	6.02	77.58	23.47	84.8	-0.03	6.32	300	75.4
Monitor Reading (ppm): 0	0719	6.04	73.67	23.55	~~214~~ 25.9	0	6.39	300	65.9
Well Casing Diameter: 2"	0729	6.04	70.40	23.58	2.4	0	6.44	300	62.7
Well Casing Material: PVC	0739	6.04	67.33	23.55	3.2	0	6.46	300	60.4
Total Well Depth (TD):									
Static Water Level (WL): 4.88									
One Casing Volume(gal/L): 0.8									
Start Purge (hrs): 0659									
End Purge (hrs): 0739									
Total Purge Time (min): 40									
Total Vol. Purged (gal/L): 5									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	Yes
TCL Pesticides	None	2 - 1Liter Ambers	Yes
OP Pesticides	None	2 - 1 Liter Ambers	Yes
TCL Herbicides*	None	2 - 1 Liter Ambers	Yes
TOC	H_2SO_4	1 - 125 ml Amber	Yes
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	Yes
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	Yes
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - I Liter HDPE	Yes
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	Yes
Diss. Fe/Mn ~~(Filtered and~~ Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	Yes
Diss Fe/Mn (Filtered) (6010B)	HNO_3	1-250 ml HDPE	Yes

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

CO_2 - 40 Alk - 45 H_2S - 0 Mn - 0.2

DO - 0.3 Fe - >3.30 S - 0.02

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW17S-01-040402
Sample Location: JAX-47-MW17S
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4-4-02 / Time:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate
Method: Low Flow Peristaltic								

PURGE DATA

Date: 4-4-02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	0947/1045	5.38	60.74	26.33	100.7	0.18	2.80	250	-120.2
Monitor Reading (ppm):	1055	5.39	5958	25.33	68.8	0.31	2.80	250	-100.5
Well Casing Diameter: 2"	1100	5.39	59.38	25.24	61.1	0.32	2.81	250	-77.6
Well Casing Material: PVC	1105	5.39	59.43	25.23	50.9	0.33	2.80	250	-78.1
Total Well Depth (TD): 12.28	1110	5.40	59.16	25.10	38.7	0.35	2.80	250	-78.4
Static Water Level (WL): 2.58	1115	5.40	59.08	25.15	34.6	0.35	2.80	250.	-78.2
One Casing Volume(gal/L):	1120	5.35	59.10	24.89	4.8	0.35	2.80	250	-77.8
Start Purge (hrs): 0943/0301125					3.7				
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - I Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

H_2S - 5.0 mg/L DO - 0 Fe - >3.30 Mn - 0.003 mg/L
CO_2 - Alk - S - 0.78

Circle if Applicable:
MS/MSD Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Page___ of ___

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

Sample ID No.: JAX47-MW17D-01-040402
Sample Location: JAX-47-MW17D
Sampled By:
C.O.C. No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.4.02 / Time:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW / ORP	Flow Rate
Method: Low Flow Peristaltic								

ORP

PURGE DATA

Date: 4.4.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	
Method: Low Flow Peristaltic	1055	6.15	70.85	25.51	114.8		5.15	400	34.0
Monitor Reading (ppm):	1100	6.09	63.22	25.49	18.8		5.30	250	34.2
Well Casing Diameter:	1105	6.08	62.32	25.51	3.5		5.25	250	36.5
Well Casing Material:	1110	6.08	62.57	25.52	1.9		6.25	250	37.1
Total Well Depth (TD): 42.36	1115	6.08	62.24	25.52	2.2		5.25	250	37.1
Static Water Level (WL): 3.48									
One Casing Volume(gal/L):									
Start Purge (hrs): ~~0943~~ 1040									
End Purge (hrs):									
Total Purge Time (min):									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

H_2S - 0.0 DO - 1.0 Fe - > 3.30 Mn. 0.1 mg/L

CO_2 Alk - S - 0.27

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW18S-01-
Sample Location: JAX-47-MW18S
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.5.02	Color	pH	S.C.	Temp.	Turbidity	DO	DTW	Flow Rate
Time:	Visual	Standard	mS/cm	°C	NTU	mg/l		
Method: Low Flow Peristaltic								

PURGE DATA

Date: 4.5.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	1040	5.09	38.83	20.64	64.7	0.78	4.84	350	122.5
Monitor Reading (ppm): 0	1050	5.10	36.59	20.67	33.1	0.56	4.84	350	—
Well Casing Diameter: 2"	1100	5.18	36.69	20.67	34.5	0.66	4.86	350	33.7
Well Casing Material: PVC	1110	5.26	38.27	20.69	6.5	0.66	4.86	350	-4.5
Total Well Depth (TD):	1125	5.24	37.67	20.73	5.3	0.61	4.86	350	-6.0
Static Water Level (WL): 4.65	1120	5.24	37.00	20.66	2.8	0.60	4.86	350	-14.5
One Casing Volume(gal/L): 1.5	~~1130~~	~~5.8~~							
Start Purge (hrs): 1025									
End Purge (hrs): 1120									
Total Purge Time (min): 55									
Total Vol. Purged (gal/L): 5									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	Yes
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (~~Filtered and~~ Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	
" (Filtered)	"	"	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

CO_2 - 70 Alk. <10 H_2S - 5.0 Mn- 0.2

DO- 1.0 Fe- 73.30 S - 0.04

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW18D-01- 040502
Sample Location: JAX-47-MW18D
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4.4.02 / Time:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	Flow Rate ORP
Method: Low Flow Peristaltic		5.87	63.72	22.16	19.3	0.02	8.41	83.9

PURGE DATA

Date: 4.4.02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	ORP
Method: Low Flow Peristaltic	1100	5.86	66.06	22.50	261.4	0	8.5	300	92.3
Monitor Reading (ppm): Ø	1110	5.87	65.85	22.35	28.8	0.01	8.42	200	88.5
Well Casing Diameter: 2"	1120	5.87	64.50	22.18	22.7	0.02	8.42	150	85.6
Well Casing Material: PVC	1130	5.87	64.28	22.19	21.7	0.02	8.41	125	85.2
Total Well Depth (TD):	1140	5.87	64.21	22.20	18.7	0.02	8.41	125	84.4
Static Water Level (WL): 6.1	1150	5.87	63.72	22.16	19.3	0.02	8.41	125	83.9
One Casing Volume(gal/L):									
Start Purge (hrs): 1045									
End Purge (hrs): 1150									
Total Purge Time (min): 65									
Total Vol. Purged (gal/L): 45									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	Yes
TCL Pesticides	None	2 - 1Liter Ambers	
OP Pesticides	None	2 - 1 Liter Ambers	
TCL Herbicides*	None	2 - 1 Liter Ambers	
TOC	H_2SO_4	1 - 125 ml Amber	
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	
Diss. Fe/Mn (~~Filtered and~~ Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	
" (Filtered)	"	"	

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

Well under high pressure. Initial DTW 11.8. Let equilibrate to 6.1

CO_2 - 35 Alk - 35 H_2S - 0 Mn - 0.3

DO - 0.4 Fe - > 3.30 S - 0.05

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW19S-01-0412
Sample Location: JAX-47-MW19S
Sampled By: L MIDDLETON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4/12/12	Color	pH	S.C.	Temp.	Turbidity	DO	DTW	Flow Rate
Time:	Visual	Standard	mS/cm	°C	NTU	mg/l		
Method: Low Flow Peristaltic	CLEAR							

PURGE DATA

Date: 4/12/12	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	Vol	OR
Method: Low Peristaltic	0830	—	—	—	—	—	2.54	~~380~~	—	—
Monitor Reading (ppm): 0	0840	6.15	39.68	21.9	107	0.37	2.85	400	4	97.
Well Casing Diameter: 2"	0850	6.21	42.14	22.0	87	0.31	2.86	400	8	64.
Well Casing Material: PVC	0900	6.21	41.8	22.0	61	0.15	2.87	400	12	34.
Total Well Depth (TD): 13.00	0910	6.20	41.4	22.0	36	0.15	2.87	400	16	-1.
Static Water Level (WL): 2.59	0915	6.22	41.0	22.0	12	0.15	2.87	400	18	-12
One Casing Volume(gal): 6.2	0920	6.21	41.0	22.0	7.1	0.14	2.87	400	20	-17
Start Purge (hrs): 0830										
End Purge (hrs): 0920										
Total Purge Time (min): 50										
Total Vol. Purged (gal): 20										

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	1 - 250 ml HDPE	X

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 40$ Alk = 75 $H_2S = 0$ $Mn = 0.1$

$DO = 1$ $Fe = 0.34$ $S^{-2} = 0.10$

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Jacksonville
Project No.: N3966 HY0050119

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW20S-01-040902
Sample Location: JAX-47-MW20S
Sampled By: L. MIDDLETON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 4/9/12 Time: 1510	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	DTW	~~Flow Rate~~ ORP
Method: Low Flow Peristaltic	CLEAR	4.36	56.51	22.6	17	6.64	3.83	288

PURGE DATA

Date: 4/9/12	Time	pH	S.C.	Temp (°C)	Turbidity	DO	DTW	Flow Rate	VOC (OZ)
Method: Low Flow Peristaltic	1425	—	—	—	—	—	3.56	300	— —
Monitor Reading (ppm): 0	1435	4.15	56.33	22.5	314	1.43	3.81	300	3 29
Well Casing Diameter: 2"	1440	4.26	55.92	22.6	239	1.34	3.83	300	4.5 29
Well Casing Material: PVC	1445	4.35	56.70	22.5	175	1.70	3.83	300	6 28
Total Well Depth (TD): 23.61	1450	4.35	56.64	22.6	61	7.32	3.83	300	7.5 29
Static Water Level (WL): 3.56	1455	4.35	56.60	22.6	36	8.04	3.83	300	9 29
One Casing Volume(gal): 3.1	1500	4.36	56.56	22.6	22	7.13	3.83	300	10.5 28
Start Purge (hrs): 1425	1505	4.36	56.51	22.6	17	6.64	3.83	300	12 28
End Purge (hrs): 1505	END PURGE								
Total Purge Time (min): 40									
Total Vol. Purged (gal): 12									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 - 40 ml Glass Vials	X
TCL Pesticides	None	2 - 1Liter Ambers	X
OP Pesticides	None	2 - 1 Liter Ambers	X
TCL Herbicides*	None	2 - 1 Liter Ambers	X
TOC	H_2SO_4	1 - 125 ml Amber	X
Meth./Ethane/Ethene (RSK SOP-147 & 175)	HCl	2 - 40 ml Glass Vials	X
Dissolved Sulfide (376.1)	NaOH & ZnAc	1- 500 ml HDPE	X
NO2/NO3/PO4/SO4/Cl/TBOD	None	1 - l Liter HDPE	X
NH3/TKN/COD	H_2SO_4	1 - 250 ml HDPE	X
Diss. Fe/Mn (Filtered and Unfiltered) (6010B)	HNO3	2- 250 ml HDPE	X

OBSERVATIONS / NOTES

Field NA parameters collected for this well include: CO_2, DO, Alkalinity, Ferrous Fe, H_2S, Sulfides as S^{-2}, ORP, pH, Spec. Cond., Temp, and Dissolved Manganese

$CO_2 = 130$ Alk = 0 $H_2S = 0$ Mn = 0.2

DO = 2 Fe = 3.09 $S^{-2} = 0.12$

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: PSC 47 / PEST SHOP
Project No.: N3966

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW21-01
Sample Location: JAX47-MW21
Sampled By: AP/MF
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 11/6/02 Time: 1530	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Method: Low Flow Peristaltic	Clear	5.37	0.240	0	7.31	25.5	168	

PURGE DATA

Date: 11/6/02	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC								
Total Well Depth (TD): 12.62								
Static Water Level (WL): 4.44								
One Casing Volume(gal/L): 1.3								
Start Purge (hrs): 1445								
End Purge (hrs): 1530								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 18.0								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
VOCs 8260B	HCL	3-40ML VOAs	YES
PEST. 8081	—	2-1L AMBERS	YES

OBSERVATIONS / NOTES

5
12.62
4.44
8.18

15
8.18
1.17
5726
818
13.806

1.3
3
3.9 gal = 3 vols

6.32
3.90
3.74
1560
2730
1170
14.5860

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

9ft of H_2O 1.6 gallons ≈ 6.0 L 3 vol = 18 L
0.17 gal/ft

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC47 WELL ID.: JAX47 MW21
PROJECT NUMBER: DATE: 10/6/02

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments cum. volume
1445	~~4.38~~ 4.44	~~350~~ 400	5.56	0.264	81.0	10.65	25.5	155	0L
1450	4.60	400	5.60	0.271	79.7	8.23	25.7	152	2L
1455	4.65	400	5.59	0.273	27.2	8.42	25.4	151	4L
1500	4.69	400	5.59	0.273	23.1	8.25	25.3	152	6L
1505	4.71	400	5.54	0.268	6.5	7.94	25.5	156	8L
1510	~~Sampling~~ 4.71	400	~~5.49~~	~~0.259~~	~~0~~	~~7.67~~	~~25.6~~	~~159~~	>10 L
1515	4.71	400	5.40	0.244	0	7.33	25.6	160	12 L
1520	4.71	400	5.38	0.241	0	7.30	25.5	168	14 L
1525	4.71	400	5.38	0.241	0	7.30	25.5	169	16 L
1530	Sampling 4.71	400	5.37	0.240	0	7.31	25.5	168	18 L
	END PURGE 5 AP								

SIGNATURE(S): Alan Pate

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: PSC 47 / PEST SHOP
Project No.: N3966

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW22-01
Sample Location: JAX47-MW22
Sampled By: AP/MF
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 11/6/02 Time:	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Method: Low Flow Peristaltic								

PURGE DATA

Date: 11/6/02	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC								
Total Well Depth (TD): 46.65								
Static Water Level (WL): 6.71								
One Casing Volume(gal/L): 0.85								
Start Purge (hrs): 1540								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected

OBSERVATIONS / NOTES

3 × .17 = .85

0.85 / 3 = 255

2.5 gal = 3 vols

32 / 2.50 / 3.74 / 1250 / 1175 / 750 / 9.3580 = 9.3L = 3 vols

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 / PEST SHOP
PROJECT NUMBER: N3966
WELL ID.: JAX47 - MW22
DATE: 11/6/02

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1540	6.71	—	—	—	—	—	—	—	
1545	6.72	2.0 400	6.01	0.198	30.2	4.40	22.5	-30	
1550	6.72	4.0 400	6.03	0.197	7.5	3.80	23.1	-37	
1555	6.72	6.0 400	6.08	0.197	1.6	3.80	23.2	-35	
1600	6.72	8.0 400	6.08	0.197	2.3	3.74	23.2	-38	
1605	6.72	10.0 400	6.08	0.196	2.8	3.75	23.3	-39	
END PURGE START SAMPLE COLLECTION									

SIGNATURE(S): Alan Pate

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: ~~OU 3 Areas A & E~~ PSC47
Project No.: ~~CTO 197 / N4049~~ CTO 162

Sample ID No.: JAX47-MW23-01
Sample Location: JAX47-MW23
Sampled By: MF
C.O.C. No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 11/7/02 Time: 0850	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity %	Other ORP
Method: Low Flow Peristaltic	clear	5.65	0.363	26.2	0.0	2.19	—	69

PURGE DATA

Date: 11/7/02
Method: Low Flow Peristaltic
Monitor Reading (ppm): 0.0
Well Casing Diameter: 2in
Well Casing Material: PVC
Total Well Depth (TD): 14.7
Static Water Level (WL): 4.96
One Casing Volume(gal/L): 6.2
Start Purge (hrs): 0750
End Purge (hrs): 0850
Total Purge Time (min): 60
Total Vol. Purged (gal/L): 18.0L

See Data on Attached Page

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	3 vials	✓
Pesticides	none	2 1L ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): MGingrich

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47
PROJECT NUMBER: N3966
WELL ID.: JAX47 - MW23
DATE: 11/7/02

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments cum. volume.
0750	4.96	300	5.22	0.336	85.1	4.35	19.5	74	—
0755	5.01	300	5.42	0.323	84.9	3.92	20.9	72	1.5
0800	5.01	300	5.60	0.311	49.0	3.40	22.8	63	3.0
0805	5.01	300	5.73	0.312	22.4	2.91	24.0	50	4.5
0810	5.01	300	5.76	0.318	21.6	2.80	24.7	45	6.0
0815	5.01	300	5.84	0.318	11.1	2.64	25.2	39	7.5
0820	5.01	300	5.85	0.315	~~15~~ 10.7	2.50	25.5	41	9.0
0825	5.01	300	5.82	0.309	1.6	2.39	25.7	47	10.5
0830	5.01	300	5.77	0.308	0.0	2.31	25.8	52	12.0
0835	5.01	300	5.74	0.334	0.0	2.26	26.0	58	13.5
0840	5.01	300	5.69	0.337	0.0	2.22	26.1	63	15.0
0845	5.01	300	5.66	0.360	0.0	2.19	26.2	68	16.5
0850	5.01	300	5.65	0.363	0.0	2.19	26.2	69	18.0 L
0850	Stmpling								

SIGNATURE(S): MC Ferguson

PAGE ___ OF ___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Pest. Shop
Project No.: CTO 162 N3966
PSC 47

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX 47 MW 24
Sample Location: MW-24
Sampled By: DS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 11-7-02 / Time:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity %	Other
Method: Low Flow Peristaltic								

PURGE DATA

Date: 11-7-02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm):								
Well Casing Diameter:								
Well Casing Material:								
Total Well Depth (TD):	45.3							
Static Water Level (WL):	6.58							
One Casing Volume(gal/L):	3.1							
Start Purge (hrs):	0750							
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Pest	8081		
VOC	8260B		

OBSERVATIONS / NOTES

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 **WELL ID.:** JAX 47 MW 24
PROJECT NUMBER: N 3966 - CTO 167 **DATE:** 11-7-02

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
750	6.58	300							
0810	6.86	300	5.97	0.161	295	0.64	24.53	-95	Brown Color Silts in H2O
0820	6.86	300	6.00	0.159	320	0.57	24.45	-104	Formation Color
0830	6.79	300	5.99	0.155	370	0.68	24.85	-106	Slow Pump Down
0840	6.79	150	6.00	0.158	308	0.65	24.45	-106	Dump Flow Cell
0850	6.79	150	6.00	0.157	310	.72	24.53	-112	
~~0860~~									
0900	6.78	150	6.00	0.156	289	.89	24.56	-113	
0905	SAMPLE								

SIGNATURE(S): _____

PAGE___OF___

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: *NASJAX PSC 47*
Project No.: *CTO 162*

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW24 0 -02
Sample Location: JAX47 - MW24
Sampled By: A. Pate/P. Leverette
C.O.C. No.: 0
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 11/12/02 Time: 1220	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other
Method: Low Flow Peristaltic	Clear	5.72	0.135	26.0	3.7	0.68	9	-

PURGE DATA

Date: 11/12/02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	ORP	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm):	See attached Low Flow Purge Data Sheet							
Well Casing Diameter: 2"								
Well Casing Material: **PVC**								
Total Well Depth (TD):								
Static Water Level (WL): 6.72								
One Casing Volume(gal/L): 0.85								
Start Purge (hrs): 1045								
End Purge (hrs): 1220								
Total Purge Time (min): 95								
Total Vol. Purged (gal/L): 9.5								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Metals: Cd, Cr~~	HNO_3	~~1-500ml HDPE~~	
~~Chloride 300.0/325.0~~	None	125 ml HDPE	
~~Sulfide 376.0~~	~~NaOH, ZnAcetate~~	1-500 ml HDPE	
SVOC - 8270C	~~	2-1L Amber	
~~PAH - 8310~~	~~	2-1L Amber	
~~VOC - 8260B~~	HCl	3-40ml vials	
Alcohols - 8015B	~~	~~3-40ml vials~~	
VOCs			YES
PESTICIDES			YES

OBSERVATIONS / NOTES

Laboratory: **Katahdin**
340 County Rd. #5
Westbrook, ME 04092
phone: 207-874-2400
fax: 0

0.85 0.85
3.74 (9) 2.55 = 3 vols
~~2.50~~
~~1080~~
18.72
~~7.48~~
~~9.3500L~~ = 3 vols

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): A. Pate

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NASJAX PSC 47 **WELL ID.:** JAX47 - MW24
PROJECT NUMBER: CTO 162 **DATE:** 11/12/02

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
~~1045~~	6.72	-	-	-	-	-	-	-	
1050	6.83	.5 100	5.71	0.157	55.5	1.50	25.5	13	
~~1055~~ 1100	6.83	1.5 100	5.71	0.140	15.4	0.67	25.7	14	
1110	6.83	2.5 100	5.70	0.138	7.2	0.94	25.7	15	
~~1115~~		~~3.5 100~~							ALP
1120	6.83	~~3~~ 4.5 100	5.69	0.138	4.2	0.70	25.8	13	
1130	6.83	~~4.5~~ 5.5 100	5.69	0.136	5.3	0.69	26.0	16	
1140	6.83	~~5.5~~ 6.5 100	5.71	0.136	4.8	0.69	26.0	10	
1150	6.83	~~6.5~~ 7.5 100	5.71	0.136	5.9	0.68	25.9	9	
1200	6.83	~~7.5~~ 8.5 100	5.72	0.135	2.5	0.69	25.9	8	
1210	6.83	~~8.5~~ 9.5 100	5.72	0.136	4.2	0.68	26.0	10	
1220	6.83	9.5 100	5.72	0.135	3.7	0.68	26.0	9	
	END PURGE START SAMPLE COLLECTION								

SIGNATURE(S): Adam Pate

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: PSC 47
Project No.: N3966

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-MW2S-01
Sample Location: JAX47-MW2S
Sampled By: MF
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 11/7/02	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1015	Visual	Standard	mS/cm	°C	NTU	mg/l	%	ORP
Method: Low Flow Peristaltic		4.54	0.260	27.2	0.0	2.50		331

PURGE DATA

Date: 11/7/02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0.0								
Well Casing Diameter: 2in								
Well Casing Material: PVC								
Total Well Depth (TD): 14.31								
Static Water Level (WL): 5.38								
One Casing Volume(gal/L): 5.0								
Start Purge (hrs): 0930								
End Purge (hrs): 1015								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L) 16 L								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
VOC (8260B)	HCl	3 vials	✓
Pesticides (8081)	none	2 1L ambers	✓

OBSERVATIONS / NOTES

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): MGregson

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 **WELL ID.:** JAX47-MW2S
PROJECT NUMBER: N3966 **DATE:** 11/7/02

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0930	5.38	—	—	—	—	—	—	—	—
0935	5.45	400	4.72	0.144	82.6	5.16	25.6	318	2L
0940	5.41	400	4.56	0.152	42.0	3.75	25.6	332	4
0945	5.41	400	4.53	0.151	15.8	3.00	25.8	334	6
0950	5.41	400	4.53	0.151	6.5	2.75	26.1	333	8
0955	5.41	400	4.53	0.215	3.6	2.59	26.4	332	10
1000	5.41	400	4.54	0.204	5.0	2.55	26.9	331	12
1005	5.41	400	4.54	0.261	4.2	2.53	27.0	331	14
1010	5.41	400	4.54	0.260	0.0	2.50	27.2	330	16
1015	Sampling	—	—	—	—	—	—	—	—

SIGNATURE(S): _____ **PAGE___OF___**

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: PSC47
Project No.: N3966

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-GW-MW26-01
Sample Location: JAX47-MW26
Sampled By: LM/CM
C.O.C. No.: 0256
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 1/20/03 Time: 1350	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Method: Low Flow Peristaltic	CLEAR	4.74	0.122	0	3.36	21.3	280	

PURGE DATA

Date: 1/20/03	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0/0								
Well Casing Diameter: 2"								
Well Casing Material: PVC								
Total Well Depth (TD): 12.80								
Static Water Level (WL): 4.92								
One Casing Volume(gal/L): 4.9								
Start Purge (hrs): 1235								
End Purge (hrs): 1325								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 20								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
PESTICIDES	NONE	2-1L AMBER	X
VOC	HCl	3-40mL VIALS	X

OBSERVATIONS / NOTES

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):
Charles Mott

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC47 WELL ID.: JAX47-MW26
PROJECT NUMBER: N3966 DATE: 1/20/03

Time (Hrs.)	Water Level (Ft. below TOC)	Volume (Liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1235	4.92	—	400	—	—	—	—	—	—	
1245	5.11	4	400	4.83	0.110	68.4	3.76	20.5	288	CLEAR
1255	5.13	8	400	4.66	0.054	0	5.94	21.3	274	
1305	5.14	12	400	4.79	0.118	0	3.64	21.2	278	
1315	5.14	16	400	4.78	0.119	0	3.66	21.3	279	
1325	5.14	20	400	4.74	0.122	0	3.36	21.3	280	
1330 = Sample Time										

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: PSC47
Project No.: N3966

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: JAX47-GW-MW27-01
Sample Location: JAX47-MW27
Sampled By: LM TCM
C.O.C. No.: 0256
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 1/20/03 Time: 1430	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Method: Low Flow Peristaltic	CLEAR	4.85	0.110	0	3.92	19.9	291	

PURGE DATA

Date: 1/20/03	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0/0								
Well Casing Diameter: 2"								
Well Casing Material: PVC								
Total Well Depth (TD): 12.86								
Static Water Level (WL): 5.37								
One Casing Volume(gal/L): 4.6								
Start Purge (hrs): 1350								
End Purge (hrs): 1425								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 14								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
PESTICIDES	NONE	2-1L AMBER	X
VOC	HCl	3-40ml VIAL	X

OBSERVATIONS / NOTES

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Charles Mott

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC47 WELL ID.: JAX47-~~MW~~27
PROJECT NUMBER: N3966 DATE: 1/20/03

Time (Hrs.)	Water Level (Ft. below TOC)	Volume (Liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1350	5.37	—	400	—	—	—	—	—	—	
1400	5.53	4	400	4.89	0.111	9.6	6.13	19.7	286	CLEAR
1405	5.54	6	400	4.88	0.110	0	5.20	19.7	287	
1410	5.54	8	400	4.88	0.110	0	4.82	19.8	287	
1415	5.54	10	400	4.86	0.110	0	4.34	19.8	289	
1420	5.54	12	400	4.86	0.112	0	4.15	19.8	290	
1422	5.54	13	400	4.84	0.111	0	3.99	19.9	291	
1425	5.54	14	400	4.85	0.110	0	3.92	19.9	291	
1430 = Sample Time										

SIGNATURE(S):

PAGE 2 OF 2

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS JAX PSC 47 ~~NAVSTA Mayport/Tank Sites 163B, 1526 & 1565~~
Project No.: ~~N3940~~ N3966

Sample ID No.: JAX47-GW-MW27-03
Sample Location: MW 27
Sampled By: C. Metz
C.O.C. No.: 30320B3

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-3-03 / Time: 1320	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	~~Salinity~~ ORP (mv)	Other
Method: Peristaltic Pump	Clear	5.46	0.099	18.59	13.3	5.01	235	

PURGE DATA:

Date: 3-3-03	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Peristaltic								
Monitor Reading (ppm): 0.9								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 13'								
Static Water Level (WL): 4.54								
One Casing Volume(gal/L): 5.5								
Start Purge (hrs): 1150								
End Purge (hrs): 1315								
Total Purge Time (min): 85								
Total Vol. Purged (gal/L): 17								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Pesticides (TCL) SW846 8081A	None	4 x 1L Amber	cmm

OBSERVATIONS / NOTES:

* Filter 2 samples with 1um filter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 **WELL ID.:** JAX 47-MW27
PROJECT NUMBER: N3966 **DATE:** 3-3-03

13.3
4.5
8.8

5.5 L/well Vol

16.5

Time (Hrs.)	Water Level (Ft. below TOC)	Cum Vol / Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1150	4.45	200							Start Purge
1155	4.54	1 200	5.38	0.158	56.6	6.94	18.16	183	
1200	4.54	2 200	5.75	0.136	71.0	6.26	18.30	175	
1210	4.54	4 200	5.73	0.113	62.2	5.64	18.45	190	
1220	4.54	6 200	5.70	0.108	36.5	5.91	18.39	197	
1230	4.54	8 200	5.65	0.107	22.5	5.79	18.40	204	
1240	4.54	10 200	5.57	0.104	18.0	5.36	18.50	216	
1250	4.54	12 200	5.52	0.104	14.8	5.23	18.55	221	
1300	4.54	14 200	5.49	0.102	13.0	4.83	18.55	227	
~~1310~~ 1305		15 200	5.48	0.101	13.8	4.75	18.56	229	
1310		16 200	5.47	0.100	13.0	4.62	18.57	232	End Purge 3 well volumes
1315		17 200	5.46	0.099	13.3	5.01	18.59	235	
1320 = Sample Time									

SIGNATURE(S): Charles Mell

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **PSC 47 - NAS Jacksonville**
Project No.: **N3966**

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: **JAX47-MW18S-022704**
Sample Location: **MW18S**
Sampled By: C. Metz

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 2/27/2004	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 0952	Visual	Standard	mS/cm	°C	NTU	mg/l	(mv)	
Method: Low Flow Peristaltic	Clear	5.29	0.432	19.08	5.8	0.81	—	

PURGE DATA

Date: 2/27/2004
Method: **Low Flow Peristaltic**
Monitor Reading (ppm): —
Well Casing Diameter: **2"**
Well Casing Material: **PVC**
Total Well Depth (TD): 13.35
Static Water Level (WL): 5.38
One Casing Volume(gal): 4.9
Start Purge (hrs): 0835
End Purge (hrs): 0950
Total Purge Time (min): 85
Total Vol. Purged (gal): 16

See Attached Low Flow Purge Data Sheet for Water Quality Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Arsenic	HNO3	250 ml Plastic	Katahdin	Yes

OBSERVATIONS / NOTES

LAB INFO

LAB: Katahdin Analytical

COC#: 47-022704

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Charla Metz

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 - NAS Jacksonville
PROJECT NUMBER: N 3966
WELL ID.: JAX47-MW18S-022704
DATE: 2/27/04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Purge Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0835	5.38	500	0	—	—	—	—	—	—	
0855	5.64	500	10	5.23	0.428	120	0.38	18.45	—	
0915	5.51	100	12	—	—	—	—	—	—	
0935	5.51	100	14	5.28	0.435	17	0.63	19.12	—	
0940	5.51	100	15	5.28	0.432	10	0.73	19.02	—	
0945	5.51	100	15.5	5.29	0.432	7.1	0.78	19.12	—	
0950	5.51	100	16	5.29	0.432	6.5	0.81	19.08	—	
0952	—	—	—	—	—	5.8	—	—	—	

0952 = Sample Time

SIGNATURE(S): Charles Mets

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **PSC 47 - NAS Jacksonville**
Project No.: **N3966**

Sample ID No.: **JAX47-MW12S-022704**
Sample Location: **MW12S**
Sampled By: C. METZ

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 2/27/2004	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 1035	Visual	Standard	mS/cm	°C	NTU	mg/l	(mv)	
Method: Low Flow Peristaltic	Clear	4.60	0.175	21.17	2.7	0.36	—	

PURGE DATA

Date: 2/27/2004
Method: **Low Flow Peristaltic**
Monitor Reading (ppm): —
Well Casing Diameter: **2"**
Well Casing Material: **PVC**
Total Well Depth (TD): 14.75
Static Water Level (WL): 6.21
One Casing Volume(gal/L): 4.6
Start Purge (hrs): 1000
End Purge (hrs): 1035
Total Purge Time (min): 35
Total Vol. Purged (gal/L): 18

See Attached Low Flow Purge Data Sheet for Water Quality Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Arsenic	HNO3	250 ml Plastic	Katahdin	Yes

OBSERVATIONS / NOTES

LAB INFO

LAB: Katahdin Analytical

COC#: 47-022704

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Charla Metz

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 - NAS Jacksonville
PROJECT NUMBER: N 3966
WELL ID.: JAX47-MW12S-022704
DATE: 2/27/04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Purge Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1000	6.21	500	—	—	—	—	—	—	—	
1015	6.53	↓	8	4.61	0.170	34	0.66	21.11	—	
1020	6.53		10.5	4.60	0.178	11	0.47	21.10	—	
1025	6.53		13	4.66	0.176	5.8	0.43	21.13	—	
1030	6.53		15.5	4.60	0.175	3.9	0.39	21.20	—	
1035	6.53	↓	18	4.60	0.175	2.7	0.36	21.17	—	

1035 = Sample Time

SIGNATURE(S): Charles Mc

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **PSC 47 - NAS Jacksonville**
Project No.: **N3966**

Sample ID No.: **JAX47-937-MW4S-022704**
Sample Location: **MW4S**
Sampled By: LLK

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 2/27/2004	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 1106	Visual	Standard	mS/cm	°C	NTU	mg/l	(mv)	
Method: Low Flow Peristaltic	v. pale brown	4.87	0.678	19.21	15	0.27	NM	

PURGE DATA

Date: 2/27/2004
Method: **Low Flow Peristaltic**
Monitor Reading (ppm):
Well Casing Diameter: **2"**
Well Casing Material: **PVC**
Total Well Depth (TD): 11.9
Static Water Level (WL): 5.38
One Casing Volume(gal/L):
Start Purge (hrs): 0842
End Purge (hrs): 1100*
Total Purge Time (min): 73
Total Vol. Purged (gal/L): 30L

See Attached Low Flow Purge Data Sheet for Water Quality Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Arsenic	HNO3	250 ml Plastic	Katahdin	Yes

OBSERVATIONS / NOTES

* Suspended purging from 0935 to 1040

LAB INFO

LAB: Katahdin Analytical

COC#: 47-022704

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Tom Knight

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 - NAS Jacksonville
PROJECT NUMBER: N 3966
WELL ID.: JAX47-937-MW4S-022704
DATE: 2/27/04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	CUMUL. Purge Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0842	5.38	300	—	—	—	—	—	—	—	
0852	—	300	3	—	—	—	—	—	—	
0907	5.68	500	9	5.14	.691	65	3.21	17.13	—	
0912	5.68	500	11.5	5.14	.691	45	3.21	17.13	—	
0917	5.68	500	14.0	4.89	.667	180	0.22	19.05	—	
0922	5.52	300	15.5	4.89	.668	190	0.11	18.39	—	
0932	5.52	300	18.5	4.89	.667	80	0.02	18.18	—	
0935	SUSPEND	PURGING								
1040	RESUME	PURGING								
1045	5.68	500	21	4.86	.672	50	0.17	19.26	—	
1050	5.88	700	24.5	4.88	.667	20	0.24	19.24	—	
1055	5.92	700	28	4.87	.677	26	0.27	19.29	—	
1100	5.92	500	30.5	4.87	.678	15	0.27	19.21	—	
1100	COLLECT	SAMPLE								

SIGNATURE(S): John Knight

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **PSC 47 - NAS Jacksonville**
Project No.: **N3966**

Sample ID No.: **JAX47-937-MW1S-022704**
Sample Location: **MW1S**
Sampled By:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 2/27/2004 / Time: 1245	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP (mv)	Other
Method: Low Flow Peristaltic	CLEAR	5.38	0.532	20.41	2.1	0.22	NM	

PURGE DATA

Date: 2/27/2004
Method: **Low Flow Peristaltic**
Monitor Reading (ppm): 0
Well Casing Diameter: **2"**
Well Casing Material: **PVC**
Total Well Depth (TD): 14.90
Static Water Level (WL): 6.65
One Casing Volume(gal/L):
Start Purge (hrs): 1215
End Purge (hrs): 1245
Total Purge Time (min): 30
Total Vol. Purged (gal/L): 18

See Attached Low Flow Purge Data Sheet for Water Quality Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Arsenic	HNO3	250 ml Plastic	Katahdin	Yes

OBSERVATIONS / NOTES

Duplicate Collected Here

LAB INFO

LAB: Katahdin Analytical

COC#: 47-022704

Circle if Applicable:

MS/MSD

Duplicate ID No.: JAX47-DUP01-022704

Signature(s): Travis Knight

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 - NAS Jacksonville
PROJECT NUMBER: N 3966
WELL ID.: JAX47-937-MW1S-022704
DATE: 2/27/04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	CUMUL. Purge Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1215	6.65	600	—	—		—			—	
1220	7.11	600	3	5.42	.547	10	1.08	20.31	—	
1225	7.11	600	6	5.40	.541	11	0.23	20.44	—	
1230	7.12	600	9	5.39	.534	5.5	0.20	20.42	—	
1235	7.13	600	12	5.38	.537	4.2	0.17	20.43	—	
1240	7.13	600	15	5.39	.538	3.5	0.19	20.37	—	
1245	7.13	600	18	5.38	.532	2.1	0.22	20.41	—	
1245	COLLECT	SAMPLE								

SIGNATURE(S): Jason Knight

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **PSC 47 - NAS Jacksonville**
Project No.: **N3966**

Sample ID No.: **JAX47-937-MW2S-022704**
Sample Location: **MW2S**
Sampled By: C. Metz

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 2/27/2004	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 1250	Visual	Standard	mS/cm	°C	NTU	mg/l	(mv)	
Method: Low Flow Peristaltic	Clear	5.77	0.590	20.27	9.4	0.34	—	

PURGE DATA

Date: 2/27/2004	See Attached Low Flow Purge Data Sheet for Water Quality Data
Method: **Low Flow Peristaltic**	
Monitor Reading (ppm): —	
Well Casing Diameter: **2"**	
Well Casing Material: **PVC**	
Total Well Depth (TD): 13.72	
Static Water Level (WL): 6.30	
One Casing Volume(gal/L): 4.6	
Start Purge (hrs): 1210	
End Purge (hrs): 1250	
Total Purge Time (min): 40	
Total Vol. Purged (gal/L): 23	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Arsenic	HNO3	250 ml Plastic	Katahdin	Yes

OBSERVATIONS / NOTES

LAB INFO

LAB: Katahdin Analytical

COC#: 47-022704

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 - NAS Jacksonville
PROJECT NUMBER: N 3966
WELL ID.: JAX47-937-MW2S-022704
DATE: 2/27/04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Purge Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1210	6.30	600	0	~~5.71~~		65				
1230	6.68	600	12	5.71	0.550	28	0.54	20.40		
1240	6.68	600	18	5.72	0.567	18	0.25	20.40		
1243	6.57	500	19.5	5.74	0.571	11	0.23	20.35		
1246	6.57	500	21	5.76	0.588	9.8	0.30	20.31		
1249	6.57	500	22.5	5.74	0.580	9.2	0.26	20.38		
1250	6.57	500	23	5.77	0.590	9.4	0.34	20.27		
1250 = Sample Time										

SIGNATURE(S): Charles Mc

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **PSC 47 - NAS Jacksonville**
Project No.: **N3966**

Sample ID No.: **JAX47-MW14D-022704**
Sample Location: **MW14D**
Sampled By:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 2/27/2004	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 1350	Visual	Standard	mS/cm	°C	NTU	mg/l	(mv)	
Method: Low Flow Peristaltic	CLEAR	5.67	0.164	20.23	9.60	0.41	—	

PURGE DATA

Date: 2/27/2004
Method: **Low Flow Peristaltic**
Monitor Reading (ppm):
Well Casing Diameter: **2"**
Well Casing Material: **PVC**
Total Well Depth (TD): 45.8
Static Water Level (WL): 5.60
One Casing Volume(gal/L):
Start Purge (hrs): 1255
End Purge (hrs): 1350
Total Purge Time (min): 55
Total Vol. Purged (gal/L): 11.5

See Attached Low Flow Purge Data Sheet for Water Quality Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Arsenic	HNO3	250 ml Plastic	Katahdin	Yes

OBSERVATIONS / NOTES

LAB INFO

LAB: Katahdin Analytical

COC#: 47-022704

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Lewis Knight

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 - NAS Jacksonville
PROJECT NUMBER: N 3966
WELL ID.: JAX47-MW14D-022704
DATE: 2/27/04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Purge Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1255	5.60	600	—	—	—	—	—	—	—	
1300	8.60	200	3	5.75	.172	33.9	1.00	20.75	—	
1305	9.62	200	4	5.70	.163	23.7	0.64	20.61	—	
1310	9.62	200	5	5.70	.163	16.4	0.62	20.27	—	
1320	9.56	200	7	5.69	.164	8.63	0.62	20.12	—	
1330	9.52	150	8.5	5.68	.165	7.28	0.50	20.18	—	
1340	9.46	150	10.0	5.67	.163	7.60	0.46	20.21	—	
1350	9.30	150	11.5	5.67	.164	9.60	0.41	20.23	—	
1350	COLLECTED	SAMPLE								

SIGNATURE(S): Jacob Knight

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: **PSC 47 - NAS Jacksonville**
Project No.: **N3966**

Sample ID No.: **JAX47-MW15S-022704**
Sample Location: **MW15S**
Sampled By: C. Metz

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 2/27/2004	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 1410	Visual	Standard	mS/cm	°C	NTU	mg/l	(mv)	
Method: Low Flow Peristaltic	Clear	5.59	0.080	20.67	8.9	0.23	—	

PURGE DATA

Date: 2/27/2004
Method: **Low Flow Peristaltic**
Monitor Reading (ppm): —
Well Casing Diameter: **2"**
Well Casing Material: **PVC**
Total Well Depth (TD): 13.01
Static Water Level (WL): 05.41
One Casing Volume(gal/L):
Start Purge (hrs): 1318
End Purge (hrs): 1410
Total Purge Time (min): 52
Total Vol. Purged (gal/L): 20.5

See Attached Low Flow Purge Data Sheet for Water Quality Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Arsenic	HNO3	250 ml Plastic	Katahdin	Yes

OBSERVATIONS / NOTES

LAB INFO

LAB: Katahdin Analytical

COC#: 47-022704

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: PSC 47 - NAS Jacksonville
PROJECT NUMBER: N 3966
WELL ID.: JAX47-MW15S-022704
DATE: 2/27/04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Purge Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1318	5.41	600	0	—	—	—	—	—	—	
1328	5.80	600	6	5.51	0.066	165	0.67	20.55	—	
1348	5.70	400	14	5.59	0.075	78	0.18	20.60	—	
1358	5.69	400	18	5.60	0.078	36	0.18	20.56	—	
1403	5.58	200	19	5.59	0.076	15	0.23	20.52	—	
1405	5.58	200	20	5.59	0.079	9.7	0.19	20.68	—	
1408	5.58	100	20.3	5.59	0.078	9.2	0.21	20.62	—	
1410	5.57	100	20.5	5.59	0.080	8.9	0.23	20.67	—	

1410 = Sample Time

SIGNATURE(S): Charles Mc

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: C70 162
Project No.: N3966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: JAX47-937-MW03S
Sample Location: MW03S
Sampled By: CM
C.O.C. No.: 162-32604
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-04 / Time: 1215 / Method: PEristaltic	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	~~Salinity~~ ORP (mV)	Other
	Clear	5.38	0.783	19.91	17.9	2.93	+56.8	

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 12.77								
Static Water Level (WL): 5.33								
One Casing Volume(gal): 4.5								
Start Purge (hrs): 1105								
End Purge (hrs): 1213								
Total Purge Time (min): 68								
Total Vol. Purged (gal): 23.4 L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Arsenic	HNO_3	1-250 mL - Plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Mc

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: CTO 162 WELL ID.: JAX47-932-MW03S
PROJECT NUMBER: DATE: 3-26-04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1105	5.33	300/0							
1135	5.70	300/9L	6.42	0.508	110	3.07	19.94	+26.3	
1155	5.68	300/15L	5.43	0.501	60	2.82	19.98	+58.9	
1205	5.68	300/18	5.42	0.494	25	2.95	19.91	+57.3	
1805	5.68	300/21	5.41	0.488	18.7	2.98	19.89	+57.1	
1210	5.68	300/22.5	5.39	0.485	18.1	2.95	19.99	+56.8	
1213	5.68	300/23.4	5.38	0.483	17.9	2.93	19.91	+56.8	

1215 = Sample Time

SIGNATURE(S): Charles Mc

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: CTO 162
Project No.: N3966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: JAX47-MW16
Sample Location: MW16S
Sampled By: CM
C.O.C. No.: 162-037604
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-04 / Time: 1225 / Method: PERISTALTIC	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	~~Salinity~~ ORP (mv)	Other
	Clear	5.21	0.430	20.05	18	1.18	+48.1	

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm): ———								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 13.3								
Static Water Level (WL): 5.75								
One Casing Volume(gal): 4.5								
Start Purge (hrs): 1120								
End Purge (hrs): 1225								
Total Purge Time (min): 65								
Total Vol. Purged (gal): 26								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Arsenic	HNO_3	1-250ml plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Charles Mc

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: _____ WELL ID.: JAX47-MW16S

PROJECT NUMBER: _____ DATE: 3-26-04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L.)	Temp. (Celsius)	ORP (mV)	Comments
1120	5.75	~~400~~					~~19.98~~	+	
1150	6.01	12L	5.31	0.421	33	~~2.45~~	20.02	+44.2	
1210	6.00	20L	5.29	0.424	20	1.31	20.04	+46.8	
1215	6.00	22L	5.28	0.426	19	1.34	20.02	+47.3	
1220	6.00	24L	5.23	0.428	18	1.09	20.06	+47.5	
1225	6.00	↓26L	5.21	0.430	18	1.18	20.05	+48.1	
1225 = Sample Time									

SIGNATURE(S): Charles M

PAGE___OF___

133

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: CTO 162
Project No.: N3966

Sample ID No.: JAX47-MW12S
Sample Location: MW12S
Sampled By: CM
C.O.C. No.: 162-37604

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-04 / Time: 1315 / Method: PERISTALTIC	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	~~Salinity~~ ORP (%)	Other
	Clear	4.96	0.362	23.55	12	0.11	-18.1	

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 14.6								
Static Water Level (WL): 3.43								
One Casing Volume(gal/L): 6.2								
Start Purge (hrs): 1230								
End Purge (hrs): 1313								
Total Purge Time (min): 43								
Total Vol. Purged (gal/L): 17.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Arsenic	HNO_3	1-250 mL Plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Charles McC

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: CTO162 WELL ID.: JAX-17-MW17S
PROJECT NUMBER: N3966 DATE: 3-26-04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1230	3.43	400							
1300	3.71	400/12	5.61	0.363	14	0.13	23.63	-46.8	
1305	3.70	"	4.99	0.363	13	0.12	23.53	-27.8	
1310	3.71	"/16	4.98	0.362	12	0.11	23.53	-20.5	
1313	3.70	"/17.2	4.96	0.362	12	0.11	23.55	-18.1	
1315 = Sample Time									

SIGNATURE(S): Charles Mc

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/29/06	**Modified Date**	11/30/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-937MW1S-112906
TtNUS Project #	112G00497	**Well ID**	JAX-47-937MW1S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/29/06	**Static Water Level (ft.)**	8.45	**Water Quality Meter**	
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	15	**Pump Control Box**	
Sampling Method	Low flow - peristaltic with vacuum trap	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	
MS/MSD Collected?	Y	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NA		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/29/06	13:34	8.80	400	Clear	1	1	1	1	1	1	1	1	0

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME PSC 47	SITE LOCATION: NAS Jacksonville	
WELL NO: JAX47-937-MW01S	SAMPLE ID: JAX47-937-MW01S-112906	DATE: 11/29/06

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 5 feet to 15 feet	STATIC DEPTH TO WATER (feet): 8.45	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

3.98 Liters

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 13.29	PURGING ENDED AT:	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1334	2.0	2.0	400	8.80	5.11	23.78	559	3.37	20	clear	none
1339	2.0	4.0	.4	8.81	5.08	23.79	559	3.31	9.5	clear	none
1344	2.0	6.0	0.4	8.81	5.07	23.31	561	3.31	9.9	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Odom TtNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1345	SAMPLING ENDED AT: 1354
PUMP OR TUBING DEPTH IN WELL (feet): 12	SAMPLE PUMP FLOW RATE (mL per minute): 400	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: MS/MSD (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
							8081A	
							8270C	
							As 8260B	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	0	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	1:34:00 PM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	1:34:00 PM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	0	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	13:48	SW-846 8260B Extended	TCL VOCs	4°C/HCL	9	Glass	40ml vials		112G00497-11302006-1
✓	11/29/06	13:48	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber		112G00497-11302006-1
✓	11/29/06	13:48	SW-846 6010B or 6020	Arsenic	4° C/HNO3	3	Plastic	250ml PE		112G00497-11302006-1
✓	11/29/06	13:48	SW-846 6010B or 6020 (filtered)	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/30/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-937MW2S-113006
TtNUS Project #	112G00497	**Well ID**	JAX-47-937MW2S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	11/30/06	**Static Water Level (ft.)**	8.13	**Water Quality Meter**	06K1082 AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	14	**Pump Control Box**	999
Sampling Method	Other	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	15:30	8.34	250	Slightly Turbid	6.04	.842	2.07	80	25.40	NA	NA	NA	0
11/30/06	15:36	8.34	250	Slightly Turbid	5.87	.735	.70	50	25.40	NA	NA	NA	1500
11/30/06	15:41	8.34	250	Clear	5.78	.676	0.54	34	25.33	NA	NA	NA	1250
11/30/06	15:46	8.34	250	Clear	5.71	.639	0.50	23	25.28	NA	NA	NA	1250
11/30/06	15:50	8.35	250	Clear	5.67	.616	0.50	18	25.29	NA	NA	NA	1000
11/30/06	15:56	8.35	250	Clear	5.65	.603	.50	14	25.23	NA	NA	NA	1500
11/30/06	16:00	8.35	250	Clear	5.64	.601	0.47	11	25.22	NA	NA	NA	1000
11/30/06	16:03	5.34	250	Clear	5.62	.599	.52	9.6	25.21	NA	NA	NA	750

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	8.25	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	3:30:00 PM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	4:03:00 PM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	33	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	16:10	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1212006-2
✓	11/30/06	16:10	SW-846 6010B or 6020 (filtered)	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2
✓	11/30/06	16:10	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2
✓	11/30/06	16:10	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	Charles Metz	**Printed By**	Charles Metz
Created Date	11/29/06	**Modified Date**	12/4/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-937MW3S-112906
TtNUS Project #	112G00497	**Well ID**	JAX-47-937MW3S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	-Select-

Well and Sample Data

Date	11/29/06	**Static Water Level (ft.)**	7.03	**Water Quality Meter**	06K1082
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13	**Pump Control Box**	US364
Sampling Method	Low flow - peristaltic	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/29/06	13:30	7.56	100	Clear	4.69	334	0.72	3.30	23.57	NA	NA	NA	0
11/29/06	13:35	7.57	100	Clear	4.71	335	0.44	2.00	23.54	NA	NA	NA	500
11/29/06	13:40	8.27	100	Clear	4.74	337	0.39	2.01	23.49	NA	NA	NA	500
11/29/06	13:45	8.5	100	Clear	4.82	342	0.32	1.78	23.49	NA	NA	NA	500
11/29/06	13:50	8.76	100	Clear	4.86	344	0.33	1.45	23.51	143.2	NA	NA	500
11/29/06	13:55	8.88	100	Clear	4.94	353	0.29	0.98	23.62	131.7	NA	NA	500
11/29/06	14:00	8.96	100	Clear	4.93	351	0.27	0.67	23.69	130.4	NA	NA	500
11/29/06	14:05	9.01	100	Clear	4.94	352	0.28	0.46	23.72	128.8	NA	NA	500

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/29/06	14:10	9.24	100	Clear	4.97	353	0.28	0.23	23.71	127.1	NA	NA	500

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	4	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	1:30:00 PM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	2:10:00 PM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	40	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	14:15	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-11302006-1
✓	11/29/06	14:15	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-11302006-1
✓	11/29/06	14:15	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-11302006-1
✓	11/29/06	14:15	SW-846 6010B or 6020 (filtered)	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	Curtis Odom	**Printed By**	Charles Metz
Created Date	12/1/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-937MW4S-120106
TtNUS Project #	112G00497	**Well ID**	JAX-47-937MW4S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/1/06	**Static Water Level (ft.)**	7.05	**Water Quality Meter**	06K1082 AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/1/06	10:52	7.05	100	Clear	4.66	.329	3.05	13	23.65	NA	NA	NA	0
12/1/06	11:00	7.52	100	Clear	4.64	.335	3.02	13	23.69	NA	NA	NA	800
12/1/06	11:03	7.59	100	Clear	4.66	.338	3.74	13	23.73	NA	NA	NA	300
12/1/06	11:09	7.69	100	Clear	4.70	.341	4.07	12	23.75	NA	NA	NA	600
12/1/06	11:12	7.73	100	Clear	4.74	.342	4.31	9.1	23.76	NA	NA	NA	300
12/1/06	11:18	7.83	100	Clear	4.80	.342	4.52	8.4	23.71	NA	NA	NA	600
12/1/06	11:22	7.89	100	Clear	4.78	.342	4.55	10	23.73	NA	NA	NA	400

Final Purge / Sample Data

One Casing Volume	3.68	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	4.55
Total Vo. Purge (L)	3	**Waterlevel (ft.)**	7.89	**Turbidity (NTUs)**	10
Start Purge (hrs.)	10:52:00 AM	**Flowrate (mL/min)**	100	**Temp (C)**	23.73
End Purge (hrs.)	11:22:00 AM	**Color**	Clear	**ORP (mV)**	NA
Total Purge Time (min.)	30	**pH (S.U.)**	4.78	**Salinity**	NA
		Conductivity (mS/cm)	.342	**Other**	NA

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	11:30	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1262006-3
✓	12/1/06	11:30	SW-846 6010B or 6020 (filtered)	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-3
✓	12/1/06	11:30	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-3
✓	12/1/06	11:30	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/29/06	**Modified Date**	11/30/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-937MW5S-112906
TtNUS Project #	112G00497	**Well ID**	JAX-47-937MW5S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/29/06	**Static Water Level (ft.)**	7.76	**Water Quality Meter**	
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13	**Pump Control Box**	
Sampling Method	Low flow - peristaltic with vacuum trap	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NA		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/29/06	15:02	8.72	300	Cloudy	6.48	876	1.01	80	25.27	na	na	na	0
11/29/06	15:12	8.72	300	Slightly Turbid	6.44	890	1.07	80	25.25	na	na	na	3000
11/29/06	15:22	8.16	100	Slightly Turbid	6.39	882	1.30	30	25.08	na	na	na	1000
11/29/06	15:32	8.22	100	Clear	8.22	878	2.02	23	25.07	na	na	na	1000
11/29/06	15:37	8.22	100	Clear	6.37	878	1.02	22	25.08	na	na	na	500
11/29/06	15:37	8.22	100	Clear	6.37	878	1.02	22	25.08	na	na	na	0
11/29/06	15:42	8.23	100	Clear	6.37	876	0.76	20	25.09	na	na	na	500
11/29/06	15:47	8.21	100	Clear	6.36	875	0.71	16	25.06	na	na	na	500

Final Purge / Sample Data

One Casing Volume	3.24	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	0.71
Total Vo. Purge (L)	6.5	**Waterlevel (ft.)**	8.21	**Turbidity (NTUs)**	16
Start Purge (hrs.)	3:02:00 PM	**Flowrate (mL/min)**	100	**Temp (C)**	25.06
End Purge (hrs.)	3:47:00 PM	**Color**	Clear	**ORP (mV)**	na
Total Purge Time (min.)	45	**pH (S.U.)**	6.36	**Salinity**	na
		Conductivity (mS/cm)	875	**Other**	na

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	16:00	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-11302006-1
✓	11/29/06	16:00	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-11302006-1
✓	11/29/06	16:00	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-11302006-1
✓	11/29/06	16:00	SW-846 6010B or 6020 (filtered)	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE		112G00497-11302006-1

General Observations and Notes

pump to slowest possible setting - water level continued to drop at this lowest setting.

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/30/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-937MW6D-113006
TtNUS Project #	112G00497	**Well ID**	JAX-47-937MW6D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/30/06	**Static Water Level (ft.)**	7.92	**Water Quality Meter**	06K1082 AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	35	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	13:38	8.04	200	Other	5.19	239	2.85	360	24.92	na	na	na	0
11/30/06	13:42	8.04	200	Other	5.17	238	2.39	270	24.81	na	na	na	800
11/30/06	13:48	8.04	200	Slightly Turbid	5.19	.239	2.51	180	24.71	na	na	na	1200
11/30/06	13:52	8.06	200	Slightly Turbid	5.25	.238	2.16	120	24.53	NA	NA	NA	800
11/30/06	13:59	8.07	200	Slightly Turbid	5.21	.238	2.13	70	24.66	NA	NA	NA	1400
11/30/06	14:03	8.07	200	Clear	5.22	.239	1.21	60	24.73	NA	NA	NA	800
11/30/06	14:10	8.07	200	Clear	5.21	.236	0.71	45	24.69	NA	NA	NA	1400
11/30/06	14:17	8.07	200	Clear	5.23	.238	0.66	32	24.93	NA	NA	NA	1400

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	14:20	8.07	200	Clear	5.23	.237	0.67	31	24.78	NA	NA	NA	600
11/30/06	14:24	8.07	200	Clear	5.22	.237	.66	36	24.59	NA	NA	NA	800
11/30/06	14:32	8.07	200	Clear	5.21	.236	0.77	22	24.53	NA	NA	NA	1600
11/30/06	14:39	8.07	200	Clear	5.21	.236	.73	18	24.48	NA	NA	NA	1400
11/30/06	14:45	8.07	20	Clear	5.21	.236	.71	18	24.50	NA	NA	NA	120

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	.71
Total Vo. Purge (L)	12.32	**Waterlevel (ft.)**	8.07	**Turbidity (NTUs)**	18
Start Purge (hrs.)	1:38:00 PM	**Flowrate (mL/min)**	20	**Temp (C)**	24.50
End Purge (hrs.)	2:45:00 PM	**Color**	Clear	**ORP (mV)**	NA
Total Purge Time (min.)	67	**pH (S.U.)**	5.21	**Salinity**	NA
		Conductivity (mS/cm)	.236	**Other**	NA

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	14:50	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2
✓	11/30/06	14:50	SW-846 6010B or 6020 (filtered)	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2
✓	11/30/06	14:50	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	None	2	Glass	1L Amber		112G00497-1212006-2
✓	11/30/06	14:50	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Scott McGuire	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/30/06	**Modified Date**	11/30/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW10S-113006
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW10S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/30/06	**Static Water Level (ft.)**	7.02	**Water Quality Meter**	06K1082 AN
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	15	**Pump Control Box**	US 364
Sampling Method	Low flow - peristaltic	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	15:30	7.23	100	Clear	5.58	192	2.42	47.9	24.98	199.6	NA	NA	0
11/30/06	15:32	7.2	100	Clear	5.54	189	1.84	41.2	25.07	209.0	NA	NA	200
11/30/06	15:40	7.20	100	Clear	5.56	191	2.06	45.2	25.04	204.4	NA	NA	800
11/30/06	15:45	7.20	100	Clear	5.56	191	2.00	43.9	25.03	207.1	NA	NA	500
11/30/06	15:50	7.20	200	Clear	5.52	187	171	39.8	25.01	212.6	NA	NA	1000
11/30/06	15:55	7.30	200	Clear	5.51	186	1.65	32.9	25.00	214.2	NA	NA	1000
11/30/06	16:00	7.30	200	Clear	5.49	184	1.55	27.6	24.98	216.3	NA	NA	1000
11/30/06	16:05	7.30	200	Clear	5.48	181	1.58	23.1	24.95	217.0	NA	NA	1000

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	16:10	7.30	200	Clear	5.46	185	1.47	17.2	24.94	219.2	NA	NA	1000

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	6.5	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	3:30:00 PM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	4:10:00 PM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	40	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
X	11/30/06	16:15	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		
✓	11/30/06	16:15	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2
✓	11/30/06	16:15	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	Curtis Odom	**Printed By**	Charles Metz
Created Date	12/1/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW11S-120106
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW11S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/1/06	**Static Water Level (ft.)**	7.75	**Water Quality Meter**	06K1082 AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	15	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/1/06	13:55	7.75	200	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/1/06	14:05	7.83	200	Cloudy	4.07	.167	1.25	110	24.85	NA	NA	NA	2000
12/1/06	14:10	7.79	100	Cloudy	4.10	.170	1.09	120	24.91	NA	NA	NA	500
12/1/06	14:14	7.79	100	Slightly Turbid	4.14	.172	1.12	95	24.91	NA	NA	NA	400
12/1/06	14:18	7.79	100	Slightly Turbid	4.14	.175	1.17	80	24.90	NA	NA	NA	400
12/1/06	14:24	7.79	100	Slightly Turbid	4.21	.175	1.22	70	24.96	NA	NA	NA	600
12/1/06	14:35	7.79	100	Clear	4.21	.178	1.11	40	25.15	NA	NA	NA	1100
12/1/06	14:43	7.79	100	Clear	4.23	.178	1.11	27	25.04	NA	NA	NA	800

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/1/06	14:49	7.79	100	Clear	4.24	.178	1.11	22	24.98	NA	NA	NA	600
12/1/06	14:52	7.79	100	Clear	4.24	.177	1.12	20	24.87	NA	NA	NA	300
12/1/06	14:55	7.79	100	Clear	4.29	.177	1.12	17	24.82	NA	NA	NA	300
12/1/06	14:58	7.79	100	Clear	4.24	.177	1.12	16	24.79	NA	NA	NA	300

Final Purge / Sample Data

One Casing Volume	4.48	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	1.12
Total Vo. Purge (L)	7.3	**Waterlevel (ft.)**	7.79	**Turbidity (NTUs)**	16
Start Purge (hrs.)	1:55:00 PM	**Flowrate (mL/min)**	100	**Temp (C)**	24.79
End Purge (hrs.)	2:58:00 PM	**Color**	Clear	**ORP (mV)**	NA
Total Purge Time (min.)	63	**pH (S.U.)**	4.24	**Salinity**	NA
		Conductivity (mS/cm)	.177	**Other**	NA

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	15:00	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-3
✓	12/1/06	15:00	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	None	2	Glass	1L Amber		112G00497-1262006-3
✓	12/1/06	15:00	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	Curtis Odom	**Printed By**	Charles Metz
Created Date	12/1/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW11D-120106
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW11D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/1/06	**Static Water Level (ft.)**	8.85	**Water Quality Meter**	06K1082 AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	60.5	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/1/06	15:32	8.85	200	Other	NA	NA	NA	NA	NA	NA	NA	NA	0
12/1/06	15:37	9.76	100	Highly Turbid	7.85	.346	2.10	700	24.86	NA	NA	NA	500
12/1/06	15:41	9.64	100	Slightly Turbid	7.50	.358	1.51	120	24.61	NA	NA	NA	400
12/1/06	15:54	9.65	100	Clear	7.48	.350	1.40	26	24.56	NA	NA	NA	1300
12/1/06	16:00	9.63	100	Clear	7.93	.333	1.43	14	24.61	NA	NA	NA	600
12/1/06	16:05	9.62	100	Clear	7.95	.322	1.39	6.5	24.55	NA	NA	NA	500
12/1/06	16:08	9.62	100	Clear	7.94	.327	1.40	5.9	24.51	NA	NA	NA	300

Final Purge / Sample Data

One Casing Volume	31.91	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	1.40
Total Vo. Purge (L)	3.6	**Waterlevel (ft.)**	9.62	**Turbidity (NTUs)**	5.9
Start Purge (hrs.)	3:32:00 PM	**Flowrate (mL/min)**	100	**Temp (C)**	24.51
End Purge (hrs.)	4:08:00 PM	**Color**	Clear	**ORP (mV)**	NA
Total Purge Time (min.)	36	**pH (S.U.)**	7.94	**Salinity**	NA
		Conductivity (mS/cm)	.327	**Other**	NA

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	16:15	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	None	2	Glass	1L Amber		112G00497-1262006-3
✓	12/1/06	16:15	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-3
✓	12/1/06	16:15	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/8/06	**Modified Date**	12/8/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW12S-120806
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW12S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/8/06	**Static Water Level (ft.)**	8.41	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	15	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/8/06	13:10	8.41	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/8/06	13:15	8.50	300	Clear	4.44	0.184	1.30	24	22.94	262.7	NA		1500
12/8/06	13:20	8.50	300	Clear	4.42	0.188	0.93	17	23.28	288.8	NA		1500
12/8/06	13:25	8.50	300	Clear	4.40	0.192	0.77	13	23.31	302.2	NA		1500
12/8/06	13:30	8.50	300	Clear	4.39	0.195	0.68	9.3	23.38	311.6	NA		1500

Final Purge / Sample Data

One Casing Volume	4.07	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	0.68
Total Vo. Purge (L)	6	**Waterlevel (ft.)**	8.50	**Turbidity (NTUs)**	9.3
Start Purge (hrs.)	1:10:00 PM	**Flowrate (mL/min)**	300	**Temp (C)**	23.38
End Purge (hrs.)	1:30:00 PM	**Color**	Clear	**ORP (mV)**	311.6
Total Purge Time (min.)	20	**pH (S.U.)**	4.39	**Salinity**	NA
		Conductivity (mS/cm)	0.195	**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/8/06	13:32	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1282006-5
✓	12/8/06	13:32	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1282006-5
✓	12/8/06	13:32	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1282006-5

General Observations and Notes

Collected VOCs by straw method

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Scott McGuire	**Modified By**	Scott McGuire	**Printed By**	Charles Metz
Created Date	12/1/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW13S-120106
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW13S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	12/1/06	**Static Water Level (ft.)**	7.87	**Water Quality Meter**	06K1082 AN
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	15	**Pump Control Box**	US 364
Sampling Method	Low flow - peristaltic	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	Y	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID	JAX-47-DU01-120106				

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/1/06	08:55	7.87	100	Clear	5.08	151	0.97	98	25.46	229.7	NA	NA	0
12/1/06	09:00	7.89	100	Clear	4.70	149	0.41	32.0	25.64	239.2	NA	NA	500
12/1/06	09:05	7.87	100	Clear	4.69	150	0.35	22.8	25.67	239.3	NA	NA	500
12/1/06	09:10	7.87	100	Clear	4.68	151	0.32	17.3	25.66	239.5	NA	NA	500
12/1/06	09:15	7.87	100	Clear	4.65	153	0.29	12.7	25.66	240.7	NA	NA	500
12/1/06	09:20	7.87	200	Clear	4.65	155	0.26	9.01	25.68	241.3	NA	NA	1000
12/1/06	09:25	7.91	200	Clear	4.64	156	0.25	8.11	25.69	241.4	NA	NA	1000
12/1/06	09:30	7.91	200	Clear	4.64	155	0.23	10.3	25.67	243.9	NA	NA	1000

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	0.23
Total Vo. Purge (L)	5	**Waterlevel (ft.)**	7.91	**Turbidity (NTUs)**	10.3
Start Purge (hrs.)	8:55:00 AM	**Flowrate (mL/min)**	200	**Temp (C)**	25.67
End Purge (hrs.)	9:30:00 AM	**Color**	Clear	**ORP (mV)**	243.9
Total Purge Time (min.)	35	**pH (S.U.)**	4.64	**Salinity**	NA
		Conductivity (mS/cm)	155	**Other**	NA

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	09:30	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1212006-2
✓	12/1/06	09:35	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2
✓	12/1/06	09:35	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Scott McGuire	**Modified By**	Scott McGuire	**Printed By**	Charles Metz
Created Date	12/1/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW13D-120106
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW13D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	12/1/06	**Static Water Level (ft.)**	8.33	**Water Quality Meter**	06K1082 AN
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	50	**Pump Control Box**	US 364
Sampling Method	Low flow - peristaltic	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/1/06	10:00	8.60	200	Clear	5.06	76	1.02	234.0	24.98	232.4	NA	NA	0
12/1/06	10:10	8.64	200	Clear	5.03	61	0.65	186	24.86	229.8	NA	NA	2000
12/1/06	10:15	8.64	200	Clear	5.00	56	0.54	154	24.84	222.8	NA	NA	1000
12/1/06	10:20	8.64	200	Clear	4.99	55	0.36	121.8	24.81	217.2	NA	NA	1000
12/1/06	10:25	8.64	200	Clear	4.96	55	0.34	88.6	24.79	215.9	NA	NA	1000
12/1/06	10:30	8.64	200	Clear	4.97	57	0.28	34.1	24.77	209.4	NA	NA	1000
12/1/06	10:35	8.64	200	Clear	4.99	56	0.26	19.2	24.77	207.7	NA	NA	1000
12/1/06	10:40	8.64	200	Clear	4.98	57	0.24	11.9	24.76	203.6	NA	NA	1000

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	0.24
Total Vo. Purge (L)	8	**Waterlevel (ft.)**	8.64	**Turbidity (NTUs)**	11.9
Start Purge (hrs.)	10:00:00 AM	**Flowrate (mL/min)**	200	**Temp (C)**	24.76
End Purge (hrs.)	10:40:00 AM	**Color**	Clear	**ORP (mV)**	203.6
Total Purge Time (min.)	40	**pH (S.U.)**	4.98	**Salinity**	NA
		Conductivity (mS/cm)	57	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	10:45	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2
✓	12/1/06	10:45	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1212006-2
✓	12/1/06	10:45	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/6/06	**Modified Date**	12/8/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW14S-120806
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW14S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/8/06	**Static Water Level (ft.)**	7.18	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13.5	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/8/06	09:22	7.18	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/8/06	09:27	7.25	300	Clear	5.05	0.118	4.89	29	18.21	198.1	NA		1500
12/8/06	09:33	7.25	300	Clear	5.00	0.109	3.41	19	19.76	205.4	NA		1800
12/8/06	09:37	7.25	300	Clear	5.03	0.110	2.87	14	20.27	210.2	NA		1200
12/8/06	09:42	7.25	300	Clear	5.12	0.112	2.35	11	20.53	209.5	NA		1500
12/8/06	09:47	7.25	300	Clear	5.14	0.113	2.21	8.3	20.58	208.5	NA		1500
12/8/06	09:52	7.25	300	Clear	5.18	0.111	2.15	6.8	20.64	185.8	NA		1500

Final Purge / Sample Data

One Casing Volume	3.9	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	2.15
Total Vo. Purge (L)	9	**Waterlevel (ft.)**	7.25	**Turbidity (NTUs)**	6.8
Start Purge (hrs.)	9:22:00 AM	**Flowrate (mL/min)**	300	**Temp (C)**	20.64
End Purge (hrs.)	9:52:00 AM	**Color**	Clear	**ORP (mV)**	185.8
Total Purge Time (min.)	30	**pH (S.U.)**	5.18	**Salinity**	NA
		Conductivity (mS/cm)	0.111	**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/8/06	09:54	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1282006-5
✓	12/8/06	09:54	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1282006-5
✓	12/8/06	09:54	SW-846 6010B or 6020 (filtered)	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE		112G00497-1282006-5
✓	12/8/06	09:54	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1282006-5

General Observations and Notes

DO >20% at sample time but stable.

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	Curtis Odom	**Printed By**	Charles Metz
Created Date	12/1/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW14D-120106
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW14D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/1/06	**Static Water Level (ft.)**	7.49	**Water Quality Meter**	06K1082 AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	48	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID	DELETE				

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/1/06	09:30	7.49	250	Clear	NA	NA	NA	NA	NA	NA	NA	NA	0
12/1/06	09:37	9.11	100	Slightly Turbid	5.30	.085	3.42	55	22.63	NA	NA	NA	700
12/1/06	09:41	9.31	100	Slightly Turbid	5.28	.088	1.92	60	22.78	NA	NA	NA	400
12/1/06	10:01	9.73	100	Clear	5.12	.112	1.46	16	22.88	NA	NA	NA	2000
12/1/06	10:04	9.78	100	Clear	5.11	.112	1.42	9.9	22.86	NA	NA	NA	300
12/1/06	10:06	9.81	100	Clear	5.11	.113	1.73	8.2	22.93	NA	NA	NA	200
12/1/06	10:09	9.84	100	Clear	5.10	.114	1.39	7.4	22.93	NA	NA	NA	300
12/1/06	10:12	9.80	100	Clear	5.11	.115	1.26	6.9	22.87	NA	NA	NA	300

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	1.26
Total Vo. Purge (L)	4.2	**Waterlevel (ft.)**	9.80	**Turbidity (NTUs)**	6.9
Start Purge (hrs.)	9:30:00 AM	**Flowrate (mL/min)**	100	**Temp (C)**	22.87
End Purge (hrs.)	10:12:00 AM	**Color**	Clear	**ORP (mV)**	NA
Total Purge Time (min.)	42	**pH (S.U.)**	5.11	**Salinity**	NA
		Conductivity (mS/cm)	.115	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/1/06	10:15	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-3
✓	12/1/06	10:15	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	None	2	Glass	1L Amber		112G00497-1262006-3
✓	12/1/06	10:15	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/29/06	**Modified Date**	11/30/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW15S-112906
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW15S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/29/06	**Static Water Level (ft.)**	7.37	**Water Quality Meter**	06K1082
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13.5	**Pump Control Box**	US364
Sampling Method	Low flow - peristaltic	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/29/06	15:51	7.63	100	Clear	5.24	71	1.30	63.4	24.33	180.7	NA	NA	0
11/29/06	16:00	7.55	100	Clear	5.19	72	0.98	150	24.48	182.6	NA	NA	900
11/29/06	16:05	7.55	100	Clear	5.18	72	0.92	101.8	24.47	178.7	NA	NA	500
11/29/06	16:10	7.55	100	Clear	5.19	71	0.85	76.2	24.49	174.9	NA	NA	500
11/29/06	16:15	7.55	100	Clear	5.19	70	0.76	41.8	24.44	172.7	NA	NA	500
11/29/06	16:20	7.55	100	Clear	5.20	73	0.73	19.9	24.44	169.3	NA	NA	500
11/29/06	16:25	7.55	100	Clear	5.19	73	0.71	12.2	24.42	163.8	NA	NA	500
11/29/06	16:30	7.55	100	Clear	5.20	71	0.60	9.45	24.40	161.6	NA	NA	500

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	3.9	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	3:51:00 PM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	4:30:00 PM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	39	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	16:35	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-11302006-1
✓	11/29/06	16:35	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-11302006-1
✓	11/29/06	16:35	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/29/06	**Modified Date**	11/30/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW15D-112906
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW15D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	-Select-

Well and Sample Data

Date		**Static Water Level (ft.)**		**Water Quality Meter**	06K1082
Purge Method	-Select-	**Total Well Depth (ft.)**	47.5	**Pump Control Box**	US364
Sampling Method	-Select-	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**			
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/29/06	15:00	8.79	100	Clear	5.60	0.0	8.34	999	25.54	171.2	NA	NA	0
11/29/06	15:10	9.03	100	Clear	5.23	85	0.74	210.0	23.69	147.9	NA	NA	1000
11/29/06	15:15	9.04	100	Clear	5.15	82	0.35	55	23.50	140.0	NA	NA	500
11/29/06	15:20	9.04	100	Clear	5.17	84	0.30	22.6	23.48	135.0	NA	NA	500
11/29/06	15:25	9.04	100	Clear	5.18	85	0.28	18.1	23.42	132.9	NA	NA	500
11/29/06	15:30	9.04	100	Clear	5.19	85	0.26	13.6	23.43	128.6	NA	NA	500

Final Purge / Sample Data

One Casing Volume		**Method**	-Select-	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	3	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	3:00:00 PM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	3:30:00 PM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	30	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/29/06	15:35	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-11302006-1
✓	11/29/06	15:35	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-11302006-1
✓	11/29/06	15:35	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-11302006-1

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/5/06	**Modified Date**	12/5/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW16S-120506
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW16S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/5/06	**Static Water Level (ft.)**	6.38	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13.5	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/5/06	13:16	6.38	300	Slightly Turbid	NA	NA	NA	NA	NA	NA	NA		0
12/5/06	13:21	6.71	300	Clear	5.23	.151	1.87	23	25.28	137.8	NA		1500
12/5/06	13:26	6.71	300	Clear	4.98	.120	.95	17	25.04	184.0	NA		1500
12/5/06	13:31	6.71	300	Clear	4.94	.116	.73	12	24.87	181.9	NA		1500
12/5/06	13:36	6.71	300	Clear	4.92	.115	.61	9.5	24.85	170.4	NA		1500

Final Purge / Sample Data

One Casing Volume	4.4	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	.61
Total Vo. Purge (L)	6	**Waterlevel (ft.)**	6.71	**Turbidity (NTUs)**	9.5
Start Purge (hrs.)	1:16:00 PM	**Flowrate (mL/min)**	300	**Temp (C)**	24.85
End Purge (hrs.)	1:36:00 PM	**Color**	Clear	**ORP (mV)**	170.4
Total Purge Time (min.)	20	**pH (S.U.)**	4.92	**Salinity**	NA
		Conductivity (mS/cm)	.115	**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/5/06	13:38	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-4
✓	12/5/06	13:38	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-4
✓	12/5/06	13:38	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1262006-4

General Observations and Notes

Collected VOCs by straw method

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/5/06	**Modified Date**	12/5/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW16D-120506
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW16D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/5/06	**Static Water Level (ft.)**	6.90	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	42	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/5/06	12:19	6.90	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/5/06	12:24	7.49	300	Slightly Turbid	5.36	.332	1.90	170	25.88	5.1	NA		1500
12/5/06	12:29	7.49	300	Slightly Turbid	5.30	.323	1.21	60	25.75	4.7	NA		1500
12/5/06	12:34	7.50	300	Clear	5.30	.321	.89	18	25.68	0.4	NA		1500
12/5/06	12:39	7.50	300	Clear	5.31	.323	.77	16	25.69	-4.4	NA		1500
12/5/06	12:44	7.50	300	Clear	5.33	.326	.70	13	25.65	-9.3	NA		1500

Final Purge / Sample Data

One Casing Volume	21.68	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	.70
Total Vo. Purge (L)	7.5	**Waterlevel (ft.)**	7.50	**Turbidity (NTUs)**	13
Start Purge (hrs.)	12:19:00 PM	**Flowrate (mL/min)**	300	**Temp (C)**	25.65
End Purge (hrs.)	12:44:00 PM	**Color**	Clear	**ORP (mV)**	-9.3
Total Purge Time (min.)	25	**pH (S.U.)**	5.33	**Salinity**	NA
		Conductivity (mS/cm)	.326	**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/5/06	12:46	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-4
✓	12/5/06	12:46	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1262006-4
✓	12/5/06	12:46	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-4

General Observations and Notes

Since well screen is fully submerged only one equipment volume needs to be purged before sampling. One equipment volume is 1.2 L. The one casing volume of 21.68 L is incorrect.

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/5/06	**Modified Date**	12/5/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW17S-120506
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW17S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/5/06	**Static Water Level (ft.)**	5.05	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/5/06	15:09	5.05	300	Slightly Turbid	NA	NA	NA	NA	NA	NA	NA		0
12/5/06	15:14	5.32	300	Clear	4.59	.289	1.14	32	26.60	117.7	NA		1500
12/5/06	15:19	5.33	300	Clear	4.69	.287	.65	20	26.75	71.7	NA		1500
12/5/06	15:24	5.33	300	Clear	4.70	.289	.48	16	26.83	36.3	NA		1500
12/5/06	15:29	5.33	300	Clear	4.73	.290	.42	11	26.87	15.7	NA		1500

Final Purge / Sample Data

One Casing Volume	4.91	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	.42
Total Vo. Purge (L)	6	**Waterlevel (ft.)**	5.33	**Turbidity (NTUs)**	11
Start Purge (hrs.)	3:09:00 PM	**Flowrate (mL/min)**	300	**Temp (C)**	26.87
End Purge (hrs.)	3:29:00 PM	**Color**	Clear	**ORP (mV)**	15.7
Total Purge Time (min.)	20	**pH (S.U.)**	4.73	**Salinity**	NA
		Conductivity (mS/cm)	.290	**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/5/06	15:31	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-4
✓	12/5/06	15:31	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-4
✓	12/5/06	15:31	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1262006-4

General Observations and Notes

Collected VOCs by the straw method

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/5/06	**Modified Date**	12/5/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW17D-120506
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW17D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/5/06	**Static Water Level (ft.)**	5.79	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	42.5	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/5/06	14:09	5.79	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/5/06	14:14	6.67	300	Slightly Turbid	6.30	.467	1.07	130	26.88	-88.9	NA		1500
12/5/06	14:24	6.67	300	Clear	6.23	.413	.65	19	26.74	-82.1	NA		3000
12/5/06	14:31	6.67	300	Clear	6.05	.380	.53	4.2	26.62	-65.8	NA		2100
12/5/06	14:34	6.67	300	Clear	6.12	.372	.50	3.7	26.59	-67.4	NA		900
12/5/06	14:39	6.67	300	Clear	6.11	.364	.50	3.1	26.52	-66.5	NA		1500

Final Purge / Sample Data

One Casing Volume	26.26	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	.50
Total Vo. Purge (L)	9	**Waterlevel (ft.)**	6.67	**Turbidity (NTUs)**	3.1
Start Purge (hrs.)	2:09:00 PM	**Flowrate (mL/min)**	300	**Temp (C)**	26.52
End Purge (hrs.)	2:39:00 PM	**Color**	Clear	**ORP (mV)**	-66.5
Total Purge Time (min.)	30	**pH (S.U.)**	6.11	**Salinity**	NA
		Conductivity (mS/cm)	.364	**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/5/06	14:41	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1262006-4
✓	12/5/06	14:41	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-4
✓	12/5/06	14:41	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-4

General Observations and Notes

Only one equipment volume needs to be purged because well screen is fully submerged. One equipment volume is 1.2 L. The value of 26.26 L for one casing volume is incorrect.

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/30/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW18S-113006
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW18S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/30/06	**Static Water Level (ft.)**	7.24	**Water Quality Meter**	
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	14.5	**Pump Control Box**	
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	11:00	7.24	100	Clear	NA	NA	NA	NA	NA	NA	NA		0
11/30/06	11:05	7.33	100	Clear	4.18	0.489	3.07	55	23.45	NA	NA		500
11/30/06	11:10	7.34	100	Clear	4.19	0.490	2.92	60	23.67	NA	NA		500
11/30/06	11:15	7.34	100	Clear	4.22	0.493	2.84	75	23.79	NA	NA		500
11/30/06	11:20	7.34	100	Clear	4.27	0.489	2.54	120	23.83	NA	NA		500
11/30/06	11:25	7.34	100	Clear	4.30	0.485	2.40	110	23.75	NA	NA		500
11/30/06	11:30	7.34	100	Clear	4.33	0.484	2.46	110	23.71	NA	NA		500
11/30/06	11:35	7.34	100	Clear	4.39	0.470	1.91	110	23.94	NA	NA		500

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	11:40	7.37	200	Clear	4.43	0.449	1.81	90	23.82	NA	NA		1000
11/30/06	11:50	7.42	200	Clear	4.56	0.404	1.77	60	23.90	NA	NA		2000
11/30/06	11:55	7.42	200	Clear	4.60	0.391	1.27	27	23.90	NA	NA		1000
11/30/06	12:00	7.42	200	Clear	4.62	0.387	1.25	24	23.79	NA	NA		1000
11/30/06	12:05	7.42	200	Clear	4.68	0.381	1.13	16	23.79	NA	NA		1000

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	1.13
Total Vo. Purge (L)	9.5	**Waterlevel (ft.)**	7.42	**Turbidity (NTUs)**	16
Start Purge (hrs.)	11:00:00 AM	**Flowrate (mL/min)**	200	**Temp (C)**	23.79
End Purge (hrs.)	12:05:00 PM	**Color**	Clear	**ORP (mV)**	NA
Total Purge Time (min.)	65	**pH (S.U.)**	4.68	**Salinity**	NA
		Conductivity (mS/cm)	0.381	**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	12:07	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2
✓	11/30/06	12:07	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2
✓	11/30/06	12:07	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	None	2	Glass	1L Amber		112G00497-1212006-2

General Observations and Notes

Sampling Methods:

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Curtis Odom	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/30/06	**Modified Date**	12/1/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW18D-113006
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW18D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Curtis Odom
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/30/06	**Static Water Level (ft.)**	7.43	**Water Quality Meter**	
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	47	**Pump Control Box**	
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	
MS/MSD Collected?	N	**Well Volumes Req.**	NA		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0 ppm		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	09:34	7.43	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
11/30/06	09:40	9.52	300	Clear	4.72	.140	2.15	45	22.92	173.5	NA		1800
11/30/06	09:45	9.40	100	Clear	4.79	.141	1.33	22	23.07	NA	NA		500
11/30/06	09:50	9.21	100	Clear	4.99	.146	1.24	16	23.08	NA	NA		500
11/30/06	09:55	9.11	100	Clear	5.10	.151	1.16	9.1	23.09	NA	NA		500
11/30/06	10:00	9.09	100	Clear	5.13	.153	1.11	11	23.10	NA	NA		500
11/30/06	10:05	9.06	100	Clear	5.16	.154	1.05	6.8	23.15	NA	NA		500

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	1.05
Total Vo. Purge (L)	4.3	**Waterlevel (ft.)**	9.06	**Turbidity (NTUs)**	6.8
Start Purge (hrs.)	9:34:00 AM	**Flowrate (mL/min)**	100	**Temp (C)**	23.15
End Purge (hrs.)	10:05:00 AM	**Color**	Clear	**ORP (mV)**	NA
Total Purge Time (min.)	31	**pH (S.U.)**	5.16	**Salinity**	NA
		Conductivity (mS/cm)	.154	**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	10:10	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	None	2	Glass	1L Amber		112G00497-1212006-2
✓	11/30/06	10:10	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2
✓	11/30/06	10:10	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml Amber		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/5/06	**Modified Date**	12/5/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW19S-120506
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW19S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/5/06	**Static Water Level (ft.)**	4.96	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/5/06	15:55	4.96	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/5/06	16:00	5.13	300	Slightly Turbid	6.55	.310	1.87	60	24.39	27.0	NA		1500
12/5/06	16:05	5.15	300	Clear	6.53	.311	1.10	18	24.33	17.2	NA		1500
12/5/06	16:10	5.15	300	Clear	6.54	.310	1.00	13	24.23	12.6	NA		1500
12/5/06	16:15	5.15	300	Clear	6.54	.309	.93	10	24.20	3.1	NA		1500

Final Purge / Sample Data

One Casing Volume	4.97	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	.93
Total Vo. Purge (L)	6	**Waterlevel (ft.)**	5.15	**Turbidity (NTUs)**	10
Start Purge (hrs.)	3:55:00 PM	**Flowrate (mL/min)**	300	**Temp (C)**	24.20
End Purge (hrs.)	4:15:00 PM	**Color**	Clear	**ORP (mV)**	3.1
Total Purge Time (min.)	20	**pH (S.U.)**	6.54	**Salinity**	NA
		Conductivity (mS/cm)	.309	**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/5/06	16:17	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-4
✓	12/5/06	16:17	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1262006-4
✓	12/5/06	16:17	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-4

General Observations and Notes

Collected VOCs by straw method

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Scott McGuire	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/30/06	**Modified Date**	11/30/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW20S-113006
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW20S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/30/06	**Static Water Level (ft.)**	5.79	**Water Quality Meter**	06K1082 AN
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	25.5	**Pump Control Box**	US 364
Sampling Method	Low flow - peristaltic	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	13:15	8.79	100	Clear	4.64	468	3.43	43	23.68	213.0	NA	NA	0
11/30/06	13:25	6.05	100	Clear	4.60	500	0.43	33.2	23.70	215.0	NA	NA	1000
11/30/06	13:30	6.14	100	Clear	4.60	507	4.59	16.2	23.58	216.0	NA	NA	500
11/30/06	13:35	6.20	100	Clear	4.58	508	0.30	11.4	23.62	217.4	NA	NA	500
11/30/06	13:40	6.26	100	Clear	4.58	510	0.28	8.65	23.68	217.7	NA	NA	500

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	2.5	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	1:15:00 PM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	1:40:00 PM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	25	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	13:45	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2
✓	11/30/06	13:45	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2
✓	11/30/06	13:45	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/5/06	**Modified Date**	12/5/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW23S-120506
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW23S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/5/06	**Static Water Level (ft.)**	6.80	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	15	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/5/06	10:04	6.80	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/5/06	10:09	6.91	300	Slightly Turbid	4.87	.171	1.72	60	24.25	195.9	NA		1500
12/5/06	10:14	6.91	300	Slightly Turbid	4.75	.124	1.48	55	24.67	225.9	NA		1500
12/5/06	10:19	6.91	300	Slightly Turbid	4.68	.127	1.33	50	24.77	210.5	NA		1500
12/5/06	10:24	6.91	300	Slightly Turbid	4.69	.128	1.25	40	24.90	175.0	NA		1500
12/5/06	10:29	6.91	300	Clear	4.70	.145	1.13	33	24.93	122.0	NA		1500
12/5/06	10:34	6.91	300	Clear	4.70	.150	0.97	20	25.00	112.7	NA		1500

12/5/06	10:39	6.91	300	Clear	4.71	.150	0.91	17	24.96	110.6	NA		1500

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/5/06	10:44	6.91	300	Clear	4.68	.151	.80	14	24.87	107.5	NA		1500

Final Purge / Sample Data

One Casing Volume	5.07	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	.80
Total Vo. Purge (L)	12	**Waterlevel (ft.)**	6.91	**Turbidity (NTUs)**	14
Start Purge (hrs.)	10:04:00 AM	**Flowrate (mL/min)**	300	**Temp (C)**	24.87
End Purge (hrs.)	10:44:00 AM	**Color**	Clear	**ORP (mV)**	107.5
Total Purge Time (min.)	40	**pH (S.U.)**	4.68	**Salinity**	NA
		Conductivity (mS/cm)	.151	**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/5/06	10:46	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-4
✓	12/5/06	10:46	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1262006-4
✓	12/5/06	10:46	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-4

General Observations and Notes

Collected VOCs by Straw Method

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/5/06	**Modified Date**	12/5/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW24D-120506
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW24D
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/5/06	**Static Water Level (ft.)**	8.33	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	45	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/5/06	11:17	8.33	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/5/06	11:22	8.45	300	Slightly Turbid	5.37	.206	1.07	75	24.77	-25.7	NA		1500
12/5/06	11:27	8.47	300	Clear	5.37	.205	.76	13	24.94	-27.5	NA		1500
12/5/06	11:33	8.47	300	Clear	5.27	.212	.65	10	24.96	-28.3	NA		1800
12/5/06	11:37	8.47	300	Clear	5.26	.215	.56	9.6	24.96	-38.2	NA		1200

Final Purge / Sample Data

One Casing Volume	22.65	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	.56
Total Vo. Purge (L)	6	**Waterlevel (ft.)**	8.47	**Turbidity (NTUs)**	9.6
Start Purge (hrs.)	11:17:00 AM	**Flowrate (mL/min)**	300	**Temp (C)**	24.96
End Purge (hrs.)	11:37:00 AM	**Color**	Clear	**ORP (mV)**	-38.2
Total Purge Time (min.)	20	**pH (S.U.)**	5.26	**Salinity**	NA
		Conductivity (mS/cm)	.215	**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/5/06	11:39	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1262006-4
✓	12/5/06	11:39	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1262006-4
✓	12/5/06	11:39	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1262006-4

General Observations and Notes

Only needed to purge one equipment volume due to a fully submerged well screen. One equipment volume is 1.2L. One casing volume of 22.75 L is incorrect.

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/8/06	**Modified Date**	12/8/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW25S-120806
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW25S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/8/06	**Static Water Level (ft.)**	7.87	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	15	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/8/06	12:14	7.87	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/8/06	12:19	7.96	300	Clear	4.48	0.127	2.26	28	20.81	250.0	NA		1500
12/8/06	12:24	7.96	300	Clear	4.42	0.133	1.10	19	22.38	277.6	NA		1500
12/8/06	12:29	7.96	300	Clear	4.42	0.135	0.68	15	22.44	292.7	NA		1500
12/8/06	12:34	7.96	300	Clear	4.42	0.139	0.59	11	22.27	299.6	NA		1500

Final Purge / Sample Data

One Casing Volume	4.4	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	0.59
Total Vo. Purge (L)	6	**Waterlevel (ft.)**	7.96	**Turbidity (NTUs)**	11
Start Purge (hrs.)	12:14:00 PM	**Flowrate (mL/min)**	300	**Temp (C)**	22.27
End Purge (hrs.)	12:34:00 PM	**Color**	Clear	**ORP (mV)**	299.6
Total Purge Time (min.)	20	**pH (S.U.)**	4.42	**Salinity**	NA
		Conductivity (mS/cm)	0.139	**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/8/06	12:36	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1282006-5
✓	12/8/06	12:36	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1282006-5
✓	12/8/06	12:36	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1282006-5

General Observations and Notes

Collect VOCs by straw method

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/8/06	**Modified Date**	12/8/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW26S-120806
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW26S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/8/06	**Static Water Level (ft.)**	7.92	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	14	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/8/06	11:26	7.92	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/8/06	11:31	7.98	300	Clear	4.56	0.050	1.80	26	21.73	242.4	NA		1500
12/8/06	11:36	7.98	300	Clear	4.63	0.050	1.59	17	22.25	256.2	NA		1500
12/8/06	11:41	7.98	300	Clear	4.59	0.053	1.41	15	22.36	278.2	NA		1500
12/8/06	11:46	7.98	300	Clear	4.57	0.059	1.29	11	22.42	293.8	NA		1500

Final Purge / Sample Data

One Casing Volume	3.76	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	1.29
Total Vo. Purge (L)	6	**Waterlevel (ft.)**	7.98	**Turbidity (NTUs)**	11
Start Purge (hrs.)	11:26:00 AM	**Flowrate (mL/min)**	300	**Temp (C)**	22.42
End Purge (hrs.)	11:46:00 AM	**Color**	Clear	**ORP (mV)**	293.8
Total Purge Time (min.)	20	**pH (S.U.)**	4.57	**Salinity**	NA
		Conductivity (mS/cm)	0.059	**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/8/06	11:48	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1282006-5
✓	12/8/06	11:48	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1282006-5
✓	12/8/06	11:48	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1282006-5

General Observations and Notes

Collected VOCs by straw method

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Scott McGuire	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/30/06	**Modified Date**	11/30/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW27S-113006
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW27S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	-Select-

Well and Sample Data

Date		**Static Water Level (ft.)**		**Water Quality Meter**	06K1082 AN
Purge Method	-Select-	**Total Well Depth (ft.)**	14	**Pump Control Box**	US364
Sampling Method	-Select-	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**			
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	10:30	7.73	100	Clear	4.55	132	1.73	75	22.91	254.7	NA	NA	0
11/30/06	10:40	7.80	100	Clear	4.50	105	1.56	55	22.88	245.4	NA	NA	1000
11/30/06	10:45	7.82	100	Clear	4.49	105	1.47	34	22.90	246.9	NA	NA	500
11/30/06	10:50	7.82	100	Clear	4.46	106	1.37	21.4	22.92	248.6	NA	NA	500
11/30/06	10:55	7.82	100	Clear	4.46	106	1.29	18.6	22.94	250.6	NA	NA	500
11/30/06	11:00	7.82	100	Clear	4.43	109	1.02	13.5	22.91	255.5	NA	NA	500
11/30/06	11:05	7.82	100	Clear	4.41	109	1.00	9.87	22.92	253.8	NA	NA	500
11/30/06	11:10	7.82	100	Clear	4.41	09	0.92	4.45	22.94	248.9	NA	NA	500

Final Purge / Sample Data

One Casing Volume		**Method**	-Select-	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	4	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	10:30:00 AM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	11:10:00 AM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	40	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	11:15	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1212006-2
✓	11/30/06	11:15	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2
✓	11/30/06	11:15	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/6/06	**Modified Date**	12/8/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-MW28S-120806
TtNUS Project #	112G00497	**Well ID**	JAX-47-MW28S
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	Not known

Well and Sample Data

Date	12/8/06	**Static Water Level (ft.)**	8.26	**Water Quality Meter**	06K1082AM
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	13.5	**Pump Control Box**	999
Sampling Method	Combined methods - see notes	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4079-1103
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
12/8/06	10:23	8.26	300	Clear	NA	NA	NA	NA	NA	NA	NA		0
12/8/06	10:28	8.49	300	Clear	5.05	0.267	3.89	28	20.07	131.5	NA		1500
12/8/06	10:33	8.49	300	Clear	5.04	0.277	3.92	19	21.05	136.9	NA		1500
12/8/06	10:38	8.49	300	Clear	5.04	0.280	3.93	14	21.09	143.4	NA		1500
12/8/06	10:43	8.49	300	Clear	5.02	0.280	3.87	10	21.12	146.1	NA		1500

Final Purge / Sample Data

One Casing Volume	3.24	**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	3.87
Total Vo. Purge (L)	6	**Waterlevel (ft.)**	8.49	**Turbidity (NTUs)**	10
Start Purge (hrs.)	10:23:00 AM	**Flowrate (mL/min)**	300	**Temp (C)**	21.12
End Purge (hrs.)	10:43:00 AM	**Color**	Clear	**ORP (mV)**	146.1
Total Purge Time (min.)	20	**pH (S.U.)**	5.02	**Salinity**	NA
		Conductivity (mS/cm)	0.280	**Other**	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/8/06	10:44	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1282006-5
✓	12/8/06	10:44	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1282006-5
✓	12/8/06	10:44	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1282006-5
✓	12/8/06	10:44	SW-846 6010B or 6020 (filtered)	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE		112G00497-1282006-5

General Observations and Notes

DO > 20% at sample time

- End of Report -

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: PSC 47	SITE LOCATION: NAS Jacksonville	
WELL NO: MW29S	SAMPLE ID: JAX16-MW29S-030907 (97)	DATE: 3-9-07

PURGING DATA

WELL DIAMETER (inches): 1.5"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 5.45	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 1.5 Liters Partially submerged 6.5' screen = 1.5 L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 1 L Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1109	TOTAL VOLUME PURGED (Liters): 19.2

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1030	0	0	.6	5.45					650	Yellow/brown	none
1045	9	9	.6		5.34						
1050	3	12	.6	7.91	~~5.45~~	24.45	97	1.93	270		
1055	3	15	.6	7.91	5.19	24.54	86	2.12	140		
1100	1.5	16.5	.3	6.85	5.13	24.55	83	2.06	22		
1105	1.5	18	.3	6.65	5.09	24.73	81	2.21	14		
1107	.6	18.6	.3	6.65	5.10	24.59	81	2.30	12		
1109	.6	19.2	.3	6.65	5.12	24.64	81	2.37	14		
Sample Time = 1110											

WELL CAPACITY (Gallons Per Foot): ~~**0.75"** = 0.02;~~ **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chuck/METZ/TtNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1125
PUMP OR TUBING DEPTH IN WELL (feet): 9'	SAMPLE PUMP FLOW RATE (mL per minute): 300mL	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	—	—	—	8081A/8270C	PP/VT
	1	PE	250 mL	HNO_3	—	<2	6010B (As)	PP
	3	CG	40 mL	HCl	—	<2	8260B	RFPP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: PSC 47	SITE LOCATION: NAS Jacksonville	
WELL NO: MW30S	SAMPLE ID: JAX18-MW30S-030907	DATE: 3-9-07

PURGING DATA

WELL DIAMETER (inches): 1.5	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 2.5 feet to 12.5 feet	STATIC DEPTH TO WATER (feet): 5.80	PURGE PUMP TYPE OR BAILER: peristaltic

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
~~2.6~~ Liters 12.5 − 5.8 = 6.7 × 0.1 = 0.67 × 4.00 = 2.6L

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
Liters NA

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1249	TOTAL VOLUME PURGED (Liters): 11.2

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1210	0	0	300	8.31	—	—	—	—	—	white/clr	—
1220	2.5	2.5	.25	9.4	5.67	21.78	120	1.5	240		
1225	1.5	4.0	.3	9.6	5.71	21.78	116	1.67	120		
1230	1.5	5.5	.3	9.7	5.8	21.79	109	1.57	~~XXX~~45		
1235	1.5	7.0	.3	9.75	5.63	21.83	104	1.46	26		
1240	1.5	8.5	.3	9.8	5.52	21.88	99	1.32	21		
1245	1.5	10.0	.3	9.85	5.62	21.76	95	1.23	17		
1247	0.6	10.6	.3	9.9	5.59	21.85	96	1.27	19		
1249	0.6	11.2	.3	9.95	5.62	21.83	96	1.37	20		
(sample time = 1250)											

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jake Halfhill / TT NUS	SAMPLER(S) SIGNATURES: JH	SAMPLING INITIATED AT: 1250	SAMPLING ENDED AT: 1305
PUMP OR TUBING DEPTH IN WELL (feet): 11	SAMPLE PUMP FLOW RATE (mL per minute): 300 mL	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	2	AG	1L	—	—		8081A / 8270C	peristaltic pump/ VT
	1	PE	250mL	HNO_3	—	<2	6010B (As)	pp
	3	CG	40mL	HCl	—	<2	8260B	RFPP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

+E1

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: PSC 47	SITE LOCATION: NAS Jacksonville	
WELL NO: MW31D	SAMPLE ID: JAX16-MW31D-030907	DATE: 3-9-07

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 47 feet to 53 feet	STATIC DEPTH TO WATER (feet): 7.80	PURGE PUMP TYPE OR BAILER: PERISTALTIC

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
NA Liters ~~5.5~~

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1 Liters ~~5.5~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 50	PURGING INITIATED AT: 1410	PURGING ENDED AT: 1429	TOTAL VOLUME PURGED (Liters): 5.7

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1410	0	0	.3	21.8	—	—	—	—	—	brown	—
1415	1.5	1.5	.3	21.0	6.43	23.24	385	0.3	20		
1420	1.5	3	.3	20.6	6.44	23.22	387	0.37	12		
1425	1.5	4.5	.3	20.3	6.42	23.21	382	0.29	8.2		
1427	0.6	5.1	.3	20.3	6.42	23.20	379	0.27	6.0		
1429	0.6	5.7	.3	20.25	**6.42**	**23.18**	**378**	**0.26**	2.4		
Sample time = 1430											

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jake Halfhill / T+ NUS	SAMPLER(S) SIGNATURES: JH	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT: 1510
PUMP OR TUBING DEPTH IN WELL (feet): 50	SAMPLE PUMP FLOW RATE (mL per minute): 300mL	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: 1 µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	6	AG	1L		—		8081A 8270C	PP/VT
	2	PE	250mL	HNO_3	—	<2	6010B (As)	PP
	9	CG	40mL	HCl	—	<2	8260B	RFPP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Terry Cottenoir	**Modified By**	Terry Cottenoir	**Printed By**	Charles Metz
Created Date	12/5/06	**Modified Date**	12/5/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	JAX47-536MW3S-120506
TtNUS Project #	112G00497	**Well ID**	JAX-47-536MW03
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Terry Cottenoir
Status	Working	**Concentration**	-Select-

Well and Sample Data

Date	12/5/06	**Static Water Level (ft.)**		**Water Quality Meter**	
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	12	**Pump Control Box**	
Sampling Method	-Select-	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N				
Corresponding Duplicate Sample ID		**Monitor Reading (ppm)**			

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Well NOT sampled, was dry

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	Scott McGuire	**Modified By**	John Wright	**Printed By**	Charles Metz
Created Date	11/30/06	**Modified Date**	11/30/06	**Printed Date**	5/8/07

Project Information

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Facility Name	JACKSONVILLE NAS	**Sample ID #**	USGS-SSMW45-113906
TtNUS Project #	112G00497	**Well ID**	JAX-47-USGSSSMW45
Task/Contract #	CTO 0047	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Scott McGuire
Status	Working	**Concentration**	Low concentration

Well and Sample Data

Date	11/30/06	**Static Water Level (ft.)**	8.87	**Water Quality Meter**	06K1082 AN
Purge Method	Low flow - peristaltic	**Total Well Depth (ft.)**	16	**Pump Control Box**	US 364
Sampling Method	Low flow - peristaltic	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	4557-3303
MS/MSD Collected?	N	**Well Volumes Req.**	1		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	0.0		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	14:20	8.87	100	Clear	4.49	251	0.62	50	23.99	222.6	NA	NA	0
11/30/06	14:20	8.87	100	Clear	4.46	250	0.51	50	23.91	234.5	NA	NA	0
11/30/06	14:30	9.12	100	Clear	4.40	245	0.34	35.7	23.72	224.6	NA	NA	1000
11/30/06	14:35	9.13	100	Clear	4.39	249	0.33	30.2	23.71	222.5	NA	NA	500
11/30/06	14:40	9.13	100	Clear	4.38	246	0.33	21.9	23.82	220.1	NA	NA	500
11/30/06	14:50	9.13	100	Clear	4.36	251	0.31	16.6	23.79	217.4	NA	NA	1000
11/30/06	14:55	9.13	100	Clear	4.34	245	0.25	14.2	23.86	213.2	NA	NA	500
11/30/06	15:00	9.13	100	Clear	4.30	242	0.24	11.9	23.71	220.5	NA	NA	500

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

PSC47 Soil and GW Sampling - JACKSONVILLE NAS

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/30/06	15:05	9.13	100	Clear	4.26	244	0.22	9.02	23.69	221.4	NA	NA	500

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - peristaltic	**Dissolved Oxygen (mg/L)**	
Total Vo. Purge (L)	4.5	**Waterlevel (ft.)**		**Turbidity (NTUs)**	
Start Purge (hrs.)	2:20:00 PM	**Flowrate (mL/min)**		**Temp (C)**	
End Purge (hrs.)	3:05:00 PM	**Color**		**ORP (mV)**	
Total Purge Time (min.)	45	**pH (S.U.)**		**Salinity**	
		Conductivity (mS/cm)		**Other**	

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/30/06	15:10	SW-846 8081A and 8270C Extended	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber		112G00497-1212006-2
✓	11/30/06	15:10	SW-846 6010B or 6020	Arsenic	4° C/HNO3	1	Plastic	250ml PE		112G00497-1212006-2
✓	11/30/06	15:10	SW-846 8260B Extended	TCL VOCs	4°C/HCL	3	Glass	40ml vials		112G00497-1212006-2

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: PSC 47	SITE LOCATION: NAS Jacksonville	
WELL NO: MW-25	SAMPLE ID: JAX47-937-MW025	DATE: 4 / 3 / 2007

PURGING DATA

WELL DIAMETER (in): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 3.65' to 13.65'	STATIC DEPTH TO WATER (ft): 7.12	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

4.0 Liters [(13.65 ft - 7.12 ft) x 0.16 gal/ft] = 1.04 gal x 3.785 L/gal = 3.95 L

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.0	PURGE INITIATED AT: 0944	PURGE ENDED AT: 1009	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mlpm)	DEPTH TO WATER (ft)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR
0944	–	–	400	7.12	–	–	–	–	–	–	CLOUDY
0954	4.0	4.0	400	7.24	5.90	23.61	635	0.31	68	53.6	"
0959	2.0	6.0	400	7.24	5.91	23.78	638	0.23	19.8	36.8	CLEAR
1004	2.0	8.0	400	7.24	5.91	23.80	639	0.21	14.6	27.6	"
1009	2.0	10.0	400	7.24	5.91	23.75	635	0.17	10.1	23.4	"
		SAMPLE	TIME		1011						

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ TERRY COTTENOIR	SAMPLER(S) SIGNATURES: Terry Cott	SAMPLING INITIATED AT: 1011	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet): 9.0	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
PP	1	PE		–	–	–	As, TSS, TDS	APP
PP	1	PE		HNO_3	–	–	As	APP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: PSC 47	SITE LOCATION: NAS Jacksonville	
WELL NO: MW-35	SAMPLE ID: JAX47-937-MW035	DATE: 4 / 3 / 2007

PURGING DATA

WELL DIAMETER (in): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 2.65' to 12.65	STATIC DEPTH TO WATER (ft): 6.08	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
4.0 Liters [(12.65 ft - 6.08 ft) x 0.16 gal/ft] = 1.05 gal x 3.785 L/gal = 3.97 L

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	PURGE INITIATED AT: 0906	PURGE ENDED AT: 0931	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mlpm)	DEPTH TO WATER (ft)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR
0906	—	—	400	6.08	—	—	—	—	—	—	CLOUDY
0916	4.0	4.0	400	6.54	4.94	20.85	163	0.57	27.7	227.1	CLEAR
0921	2.0	6.0	400	6.54	4.97	20.81	158	0.38	17.6	217.8	"
0926	2.0	8.0	400	6.54	4.96	20.82	155	0.41	13.1	216.2	"
0931	2.0	10.0	400	6.54	4.93	20.80	152	0.40	10.6	210.8	"
	SAMPLE TIME			0933							

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ TERRY COTTENOIR	SAMPLER(S) SIGNATURES: Terry Cott.	SAMPLING INITIATED AT: 0933	SAMPLING ENDED AT: 0937
PUMP OR TUBING DEPTH IN WELL (feet): 8.0	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
PP	1	PE		—	—	—	As, TSS, TDS	APP
PP	1	PE		HNO_3	—	—	As	APP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: PSC 47	SITE LOCATION: NAS Jacksonville	
WELL NO: MW-45	SAMPLE ID: JAX47-937-MW045	DATE: 4 / 3 / 2007

PURGING DATA

WELL DIAMETER (in): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 1.80' to 11.80'	STATIC DEPTH TO WATER (ft): 6.20	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
3.4 Liters [(11.80 ft - 6.20 ft) x 0.16 gal/ft] : 0.89 gal x 3.785 = 3.39 L

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	PURGE INITIATED AT: 1109	PURGE ENDED AT: 1134	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mlpm)	DEPTH TO WATER (ft)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR
1109	-	-	400	6.20	-	-	-	-	-	-	CLEAR
1119	4.0	4.0	400	6.37	5.44	24.01	502	0.21	48.6	-46.5	"
1124	2.0	6.0	400	6.37	5.31	24.00	495	0.15	16.8	-46.0	"
1129	2.0	8.0	400	6.37	5.28	23.96	493	0.10	12.2	-45.2	"
1134	2.0	10.0	400	6.37	5.27	23.96	491	0.09	8.38	-44.8	"
		SAMPLE	TIME		1136						

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ TERRY COTTENOIR	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1136	SAMPLING ENDED AT: 1140
PUMP OR TUBING DEPTH IN WELL (feet): 8.0	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
PP	1	PE		-	-	-	As, TSS, TDS	APP
PP	1	PE		HNO_3	-	-	As	APP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: PSC 47	SITE LOCATION: NAS Jacksonville	
WELL NO: MW-5S	SAMPLE ID: JAX47-937-MW05S	DATE: 4 / 3 / 2007

PURGING DATA

WELL DIAMETER (in): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 2.65' to 12.65'	STATIC DEPTH TO WATER (ft): 6.76	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
3.6 Liters [(12.65 ft - 6.76 ft) x 0.16 gal/ft] = 0.94 gal x 3.785 L/gal = 3.56

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	PURGE INITIATED AT: 1020	PURGE ENDED AT: 1045	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mlpm)	DEPTH TO WATER (ft)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR
1020	-	-	400	6.76	-	-	-	-	-	-	CLOUDY
1030	4.0	4.0	400	7.10	6.42	24.65	919	0.61	93.4	-23.3	"
1035	2.0	6.0	400	7.10	6.42	24.01	926	0.28	18.3	-29.2	CLEAR
1040	2.0	8.0	400	7.10	6.42	24.06	917	0.22	13.1	-32.8	"
1045	2.0	10.0	400	7.10	6.41	24.05	908	0.19	9.82	-34.6	"
		SAMPLE	TIME		1047						

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ TERRY COTTENOIR	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1047	SAMPLING ENDED AT: 1051
PUMP OR TUBING DEPTH IN WELL (feet): 8.0	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
PP	1	PE		-	-	-	As, TSS, TDS	APP
PP	1	PE		HNO_3	-	-	As	APP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

APPENDIX I

MOBILE LABORATORY ANALYTICAL RESULTS
PHASE I – RI

PN: 3900.5.7.11

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

July 16, 2001

Greg Roof
Tetra Tech NUS, Inc.
7018 AC Skinner Parkway
Suite 250
Jacksonville, FL 32256

longle@nasjax.navy.mil

longle@nasjax.navy.mil

Dear Mr. Roof:

Enclosed is the final report of the on-site semi-volatile analysis performed by KB Labs, Inc. at the NAS Jacksonville in Jacksonville, Florida. Samples were collected and analyzed from June 25 to July 3, 2001. Included are the final analytical results, a brief project narrative, tables listing quality control results, a data report narrative and sample chain-of-custody forms. This information will also be sent electronically.

KB Labs operates under an FDEP approved Comprehensive Quality Assurance Plan (CompQAP #980029 Revision 3). All data for the site referenced above were determined in accordance with published procedures Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997), unless stated otherwise in our CompQAP under method modifications. Quality assurance and quality control procedures performed in conjunction with analysis of groundwater and soil samples demonstrated that the reported data met our CompQAP requirements for accuracy and precision unless otherwise indicated on the quality control narrative accompanying the data report.

If you have any questions, please do not hesitate to call me or Todd Romero (Director of Operations) at (352) 367-0073.

Sincerely,

Chris Horrell
Data Specialist

RECEIVED
JUL 23 2001
TETRA TECH NUS
JACKSONVILLE FL

"KB Labs is a small, woman-owned business enterprise."

CTO 162
37

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

PROJECT NARRATIVE

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst**: Mark Mathews
Site NAS Jacksonville, Jacksonville, Florida	**KB Labs Project Manager**: Kelly Bergdoll	**Matrix**: Water/Soils
Onsite Dates: 6/25/01-7/3/01	**Client Project Manager**: Greg Roof	

Project Scope

From June 25, 2001 to July 3, 2001, a total of one hundred fifty (111) water samples and thirty-nine (39) soil samples were collected at the NAS Jacksonville site (CTO162), in Jacksonville, FL. Four samples were not analyzed at the request of Tom Thompson: SB17-S01-JAX 47-062501, SB17-S02-JAX 47-062501, SB17-S03-JAX 47-062501, and SB17-S04-JAX 47-062501. One water sample, SB17-G32-JAX 47-062501 was not analyzed because the sample was too viscous to extract. One hundred forty-five (145) samples were analyzed in the KB Labs mobile facility. The samples were analyzed for the 8080/8081 organochlorine pesticide list, specifically: alpha-BHC, Lindane, beta-BHC, Heptachlor, delta-BHC, Aldrin, Heptachlor epoxide, g-chlordane, a-chlordane, Endosulfan I, 4-4'-DDE, Dieldrin, Endrin, 4-4'-DDD, Endosulfan II, 4-4'-DDT, Endrin Aldehyde, Endosulfan Sulfate, Endrin Ketone, and Methoxychlor.

Analytical Procedure

All water samples were extracted using SW846 Method 3535. The semi-volatile compounds are extracted from a fifty to two hundred milliliter (50-200 mL) aliquot of sample. Solid phase extraction is used, and the semi-volatile compounds are collected in an acetone/hexane solvent.

The soil samples were extracted using SW846 Method 3545. The semi-volatile compounds are extracted by Pressurized Fluid Extraction using an auto-extractor, into an acetone/hexane solvent.

All sample extracts were analyzed using SW846 Method 8081A. The extracted samples were analyzed on a gas chromatograph (GC) with an electron capture detector (ECD). The individual analyte responses are measured against corresponding analyte calibration standard responses.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided both on diskette (or by email) and hardcopy. The data produced and reported in the field has been reviewed and approved for this final report by a KB Labs Data Specialist.

Quality Control (QC) Data

Surrogate Recoveries – Tables 1.1-1.8 list the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Two (2) surrogate compounds were added to each analysis in order to continually monitor general method performance.

Matrix Spike Recoveries – Tables 2.1 - 2.4 list the percent recovery results for matrix spike samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent extractions was performed in order to monitor the cleanliness of the analytical system.

Signature: _____

Title: Data Specialist

Date: June 29, 2001

"KB Labs is a small, woman-owned business enterprise."

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1.1: Analytical Run Sequence/Surrogate Percent Recoveries (06/25/01)

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS, Jacksonville	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil and Water

Sample ID	Sample Matrix	*Control Limits>>*	S1* *87-110*	S2* *118-140*	Comment
OCP 10 Soil	S		103	87	S2 low
OCP 10 Water	W		100	94	S2 low
OCP 5 Soil	S		90	127	
OCP 50 Soil	S		100	100	S2 low
MW3 JAX47 062501	W		136	105	S1 high
SB 17 S-00 JAX47 062501	S		8	21	S1,S2 low; Sample Re-extracted on 6/27/01
SB 16 S-00 JAX47 062501	S		15	13	S1,S2 low; Sample Re-extracted on 6/27/01
SB 21 S-00 JAX47 062501	S		102	149	S2 high
SB 11 S-00 JAX47 062501	S		98	136	
Method Blank	S		124	123	S1 high
MW 9371 Jax47 062501	W		105	115	S2 low
SB 22 S-00 JAX47 062501	S		126	175	S1,S2 high
OCP 50 Water	W		100	100	S2 low
OCP 5 Water	W		100	110	S2 low
SB 23 S-00 JAX47 062501	S		92	152	S2 high
MW 9374 JAX47 062501	W		119	149	S1,S2 high
MW 9375 JAX47 062501	W		126	149	S1,S2 high
MW 9373 JAX47 062501	W		302	125	S1 high
OCP 10 Soil	S		115	131	S1 high
MW3 JAX47 062501 1:10	W		112	145	S1,S2 high
MW3 JAX47 062501 1:50	W		NA	NA	surrogate lost in dilution
SB 16 S-00 JAX47 062501 1:5	S		139	238	S1,S2 high; sample re-extracted 6/27/01
SB 11 S-00 JAX47 062501 1:10	S		110	222	S2 high
SB 11 S-00 JAX47 062501 1:50	S		NA	NA	surrogate lost in dilution
SPX	W		NA	NA	surrogate lost in dilution
OCP 10 Water	W		115	148	S1,S2 high
OCP 50 Water	W		103	113	S2 low
OCP 10 Soil	S		111	143	S1,S2 high
OCP 50 Water	W		90	119	
SB 18 G32 JAX47 062501	W		137	156	S1,S2 high
SB 18 G20 JAX47 062501	W		136	166	S1,S2 high
MW 9376 JAX47 062501	W		146	165	S1,S2 high
OCP 50 Water	W		108	109	S2 low

* Surrogate Compounds
S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

Signature: Cl H

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1.2: Analytical Run Sequence/Surrogate Percent Recoveries (06/26/01)

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS, Jacksonville	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil and Water

Sample ID	Sample Matrix	*Control Limits>>*	S1* *87-110*	S2* *118-140*	Comment
OCP 5 Soil	S		105	156	S2 high
OCP 10 Soil	S		113	147	S1,S2 high
OCP 50 Soil	S		103	109	
Method Blank	S		125	146	S1,S2 high
SPX	W		102	105	
Msthod Spike	S		197	103	S1 high, S2 low
SB 24 S-00 JAX47 062501	S		106	143	S2 high
OCP 10 Water	W		123	110	S1 high, S2 low
Method Blank	W		95	91	
Method Spike	W		87	91	S2 low
SB 12 S-00 JAX47 062501	S		109	104	
SB 16 S-01 JAX47 062501	S		140	137	S1 high
SB 11 S-01 JAX47 062601	S		106	124	
SB 29 S-00 JAX47 062601	S		109	109	S2 low
Tech Chlordane	W		NA	NA	
SB 16 S-01 JAX47 062501 rerun	S		135	120	S1 high
SB 16 S-01 JAX47 062501 1:5	S		6	0	Sample re-extracted on 6/27/01
SB 22 S-00 JAX47 062501 1:10	S		76	44	S1,S2 low
OCP 50 Soil	S		109	100	
SB 24 S-00 JAX47 062501 1:10	S		72	61	S1,S2 low
SB 24 S-00 JAX47 062501 1:100	S		NA	NA	
SB 12 S-00 JAX47 062501 1:10	S		71	77	S1,S2 low
SB 12 S-00 JAX47 062501 1:20	S		NA	NA	
SB 16 S-01 JAX47 062501 1:5 ms	S		31	25	S1,S2 low
SB 16 S-01 JAX47 062501 1:5 msd	S		27	23	S1,S2 low
OCP 10 Soil	S		96	120	
OCP 5 Water	W		99	92	S2 low
OCP 10 Water	W		101	104	S2 low
OCP 50 Water	W		100	100	S2 low
MW 9372 JAX47 062501	W		135	126	S1 high
SB 18 G8 JAX47 062501	W		131	100	S1 high, S2 low
SB 17 G20 JAX47 062501	W		122	117	S1 high, S2 low
SB 17 G8 JAX47 062601	W		112	119	S1 high
SB 16 G32 JAX47 062501	W		117	118	S1 high
SB 16 G20 JAX47 062501	W		106	136	
SB 16 G8 JAX47 062501	W		109	100	S2 low
SB 18 G20 JAX47 062501 ms 1:5	W		46	48	S1,S2 low
SB 18 G20 JAX47 062501 msd 1:5	W		45	41	S1,S2 low
OCP 10 Water	W		105	115	S2 low

* Surrogate Compounds
S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

Signature: Cl. Hl

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1.3: Analytical Run Sequence/Surrogate Percent Recoveries (06/27/01)

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS, Jacksonville	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil and Water

Sample ID	Sample Matrix	*Control Limits>>*	S1* *87-110*	S2* *118-140*	Comment
OCP 50 Water	W		98	96	S2 low
OCP 50 Soil	S		95	84	S2 low
Method Blank	S		88	79	S2 low
Method Spike	S		101	108	S2 low
SB 30 S-00 JAX47 062601	S		104	115	S2 low
SB 17 S-00 JAX47 062501	S		82	91	S1,S2 low
SB 16 S-00 JAX47 062501	S		124	123	Re-extract
SB 16 S-00 JAX47 062501 1:10	S		NA	NA	
SB 25 S-00 JAX47 062701	S		95	120	
SB 26 S-00 JAX47 062701	S		122	115	S1 high, S2 low
SB 25 S-00 JAX47 062701 1:100	S		NA	NA	
SB 25 S-00 JAX47 062701 1:100	S		NA	NA	
SB 25 S-00 JAX47 062701 1:10	S		96	99	S2 low
SB 30 S-00 JAX47 062601 ms 1:5	S		36	36	S1,S2 low
SB 30 S-00 JAX47 062601 msd 1:5	S		40	43	S1,S2 low
OCP 5 Soil	S		97	97	S2 low
OCP 10 Soil	S		102	102	S2 low
OCP 50 Soil	S		100	100	S2 low
OCP 100 Soil	S		98	92	S2 low
OCP 5 Water	W		86	96	S1,S2 low
OCP 10 Water	W		108	102	S2 low
OCP 50 Water	W		100	100	S2 low
Method Blank	W		86	97	S1,S2 low
Method Spike	W		93	111	S2 low
SB 21 G8 JAX47 0612601	W		97	97	S2 low
SB 23 G8 JAX47 062601	W		104	101	S2 low
SB 24 G8 JAX47 062601	W		105	103	S2 low
SB 22 G8 JAX47 062601	W		105	106	S2 low
SB 12 G8 JAX47 062601	W		107	105	S2 low
SB 29 G8 JAX47 062601	W		98	98	S2 low
SB 30 G8 JAX47 062601	W		79	104	S1,S2 low
SB 22 G44 JAX47 062601	W		84	98	S1,S2 low
SB 22 G26 JAX47 062601	W		95	99	S2 low
SB 21 G8 JAX47 0612601 ms 1:5	W		39	48	S1,S2 low
SB 21 G8 JAX47 0612601 msd 1:5	W		37	51	S1,S2 low
OCP 10 Water	W		92	97	S2 low

* Surrogate Compounds
S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

Signature: Cl. Hr

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1.4: Analytical Run Sequence/Surrogate Percent Recoveries (06/28/01)

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS, Jacksonville	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil and Water

Sample ID	Sample Matrix	*Control Limits>>*	S1* *87-110*	S2* *118-140*	Comment
OCP 50 Water	W		103	115	S2 low
OCP 50 Soil	S		97	112	S2 low
Method Blank	S		83	72	S1,S2 low
Method Spike	S		98	102	S2 low
SB 27 S-00 JAX47 062701	S		42	62	S1,S2 low
SB 14 S-00 JAXD47 062701	S		96	123	
SB 15 S-00 JAX47 062701	S		95	122	
SB 09 S-00 JAX47 062701	S		101	142	S2 high
SB 20 S-00 JAX47 062701	S		108	139	
SB 27 S-00 JAX47 062701	S		115	151	S1,S2 high
SB 14 S-00 JAXD47 062701 ms	S		41	53	S1,S2 low
SB 14 S-00 JAXD47 062701 ms 1:5	S		47	33	S1,S2 low
SB 14 S-00 JAXD47 062701 msd	S		46	51	S1,S2 low
SB 14 S-00 JAXD47 062701 msd 1:5	S		42	24	S1,S2 low
OCP 5 Soil	S		97	71	S2 low
OCP 10 Soil	S		102	116	S2 low
OCP 50 Soil	S		100	100	S2 low
Hexane	W		NA	NA	
OCP 5 Water	W		96	95	S2 low
OCP 10 Water	W		102	103	S2 low
OCP 50 Water	W		100	100	S2 low
SPX	W		109	112	S2 low
Method Blank	W		90	110	S2 low
Method Spike	W		88	98	S2 low
SB 24 G44 JAX47 062701	W		101	93	S2 low
SB 23 G44 JAX47 062701	W		102	82	S2 low
SB 24 G26 JAX47 062701	W		98	92	S2 low
SB 23 G26 JAX47 062701	W		109	115	S2 low
SB 29 G44 JAX47 062701	W		107	122	
SB 29 G26 JAX47 062701	W		106	126	
OCP 5 Water	W		96	93	S2 low
OCP 10 Water	W		104	121	
SB 30 G26 JAX47 062701	W		104	120	
SB 30 G44 JAX47 062701	W		114	106	
SB 26 G35 JAX47 062701	W		111	126	S1 high
SB 26 G22 JAX47 062701	W		111	123	S1 high
SB 26 G8 JAX47 062701	W		107	126	
SB 25 G28 JAX47 062801	W		113	130	S1 high
SB 25 G8 JAX47 062801	W		114	119	S1 high
SB 25 G18 JAX47 062801	W		113	82	S1 high, S2 low
SB 26 G35 JAX47 062701 ms	W		56	38	S1,S2 low
SB 26 G35 JAX47 062701 msd	W		60	45	S1,S2 low
SB 26 G35 JAX47 062701 ms 1:5	W		51	28	S1,S2 low
SB 26 G35 JAX47 062701 msd 1:5	W		53	19	S1,S2 low
OCP 5 Water	W		99	77	S2 low
OCP 10 Water	W		102	91	S2 low
OCP 50 Water	W		104	105	S2 low

* Surrogate Compounds
S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

Signature: CL H

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1.5: Analytical Run Sequence/Surrogate Percent Recoveries (06/29/01)

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS, Jacksonville	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil and Water

Sample ID	Sample Matrix	*Control Limits>>*	S1* *87-110*	S2* *118-140*	Comment
OCP 5 Water	W	99	101		S2 low
OCP 10 Water	W	100	99		S2 low
OCP 50 Water	W	100	100		S2 low
Method Blank	W	113	123		S1 high
Method Spike	W	120	148		S1,S2 high
SB 29 G26 JAX47 062801	W	117	146		S1,S2 high
SB29 G44 JAX467 062801	W	92	87		S2 low
SB25 ms	W	87	116		run in error
SB29 G44 JAX467 062801	W	80	93		S1,S2 low
SB29 G44 JAX467 062801	W	86	98		S1,S2 low
SB29 G10 JAX47 062801	W	86	88		S1,S2 low
SB 20 G27 JAX47 062801	W	90	77		S2 low
SB 20 G17 JAX47 062801	W	89	90		S2 low
SB 20 G7 JAX47 062801	W	95	92		S2 low
SB 15 G32 JAX47 062901	W	87	61		S2 low
SB 15 G16 JAX47 062901	W	91	90		S2 low
SB 15 G8 JAX47 062901	W	86	86		S1,S2 low
SB 14 G28 JAX47 062901	W	86	68		S1,S2 low
SB 29 G26 JAX47 062801 ms	W	NA	NA		
SB 29 G26 JAX47 062801 ms 1:5	W	NA	NA		
SB 29 G26 JAX47 062801 msd	W	NA	NA		
SB 29 G26 JAX47 062801 msd 1:5	W	NA	NA		
OCP 10 Water	W	107	113		S2 low
OCP 5 Soil	S	104	95		S2 low
OCP 10 Soil	S	98	103		S2 low
OCP 50 Soil	S	100	100		S2 low
Method Blank	S	95	76		S2 low
Method Spike	S	102	91		S2 low
SB 01 S-00 JAX47 062901	S	115	121		S1 high
SB 02 S-00 JAX47 062901	S	NA	NA		Not Spiked
SB 03 S-00 JAX47 062901	S	116	149		S1,S2 high
SB 04 S-00 JAX47 062901	S	117	122		S1 high
OCP 10 Soil	S	105	103		S2 low

* Surrogate Compounds
S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

Signature: CL: HLM

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1.6: Analytical Run Sequence/Surrogate Percent Recoveries (06/30/01)

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS, Jacksonville	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil and Water

Sample ID	Sample Matrix	*Control Limits>>*	S1* *87-110*	S2* *118-140*	Comment
OCP 5 Water	W		90	89	S2 low
OCP 10 Water	W		106	106	S2 low
OCP 50 Water	W		100	100	S2 low
SB3 G36 JAX47 062901	W		96	94	S2 low
SB 3 G22 JAX47 062901	W		94	86	S2 low
SB 3 G6 JAX47 062901	W		99	82	S2 low
SB 4 G22 JAX47 062901	W		134	90	S1 high, S2 low
SB4 G8 JAX47 062901	W		114	87	S1 high, S2 low
SB4 G36 JAX47 062901	W		89	72	S2 low
Method Blank	W		64	85	S1,S2 low
Method Spike	W		116	145	S1,S2 high
OCP 10 Water	W		111	114	S1 high, S2 low
SB14 G18 JAX47 062901	W		111	99	S1 high, S2 low
SB 14 G8 JAX47 062901	W		116	84	S1 high, S2 low
SB 9 G28 JAX47 062901	W		122	100	S1 high, S2 low
SB 9 G16 JAX47 062901	W		107	83	S2 low
SB9 G8 JAX47 062901	W		101	83	S2 low
SB2 G36 JAX47 062901	W		105	103	S2 low
SB2 G22 JAX47 062901	W		105	107	S2 low
SB2 G8 JAX47 063001	W		121	128	S1 high
SB 12 G20 JAX47 063001	W		144	144	S1,S2 high
SB 12 G30 JAX47 063001	W		104	92	S2 low
SB 31 G36 JAX47 063001	W		101	47	S2 low
SB 31 G20 JAX47 063001	W		109	54	S2 low
SB 31 G8 JAX47 063001	W		92	49	S2 low
SB 28 G32 JAX47 063001	W		88	80	S2 low
SB 28 G20 JAX47 063001	W		101	96	S2 low
SB 28 G8 JAX47 063001	W		215	97	S1 high, S2 low
OCP 10 Water	W		94	117	S2 low
SB 13 G36 JAX47 063001	W		102	79	S2 low
SB 13 G20 JAX47 063001	W		103	73	S2 low
SB 13 G8 JAX47 063001	W		163	44	S1 high, S2 low
SB7 G36 JAX47 063010	W		94	72	S2 low
SB7 G20 JAX47 063010	W		111	105	S1 high, S2 low
SB7 G8 JAX47 063010	W		120	107	S1 high, S2 low
SB8 G36 JAX47 063001	W		105	88	S2 low
SB8 G20 JAX47 063001	W		107	91	S2 low
SB8 G8 JAX47 063001	W		NA	NA	Not Spiked
SB4 G8 JAX47 062901 1:10	W		97	0	S2 low
OCP 10 Water	W		102	104	S2 low

* Surrogate Compounds
S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

Signature: Chi Hen

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1.7: Analytical Run Sequence/Surrogate Percent Recoveries (07/01/01)

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS, Jacksonville	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil and Water

Sample ID	Sample Matrix	*Control Limits>>*	S1* *87-110*	S2* *118-140*	Comment
OCP 10 Water	W		NA	NA	
Method Blank	W		93	117	S2 low
SB 13 G8 JAX47 063001 1:10	W		NA	NA	
SB 28 G8 JAX47 063001 1:10	W		NA	NA	
Method Spike	W		80	85	S1,S2 low
SB 10 G36 JAX47 063001	W		112	95	S1 high, S2 low
SB 10 G20 JAX47 063001	W		87	86	S2 low
SB 10 G8 JAX47 063001	W		82	82	S1,S2 low
SB 11 G36 JAX47 063001	W		87	66	S2 low
SB 11 G28 JAX47 063001	W		108	95	S2 low
SB 11 G8 JAX47 06/30/01	W		112	99	S1 high, S2 low
OCP 10 Water	W		110	124	
SB 01 G40 JAX47 063001	W		106	93	S2 low
SB 01 G8 JAX47 063001	W		102	98	S2 low
SB 01 G26 JAX47 06/30/01	W		94	94	S2 low
SB 8 G8 JAX47 063001	W		113	126	Repeat Extract; reported original results
SB 8 G8 JAX47 063001 ms	W		102	106	S2 low
SB 8 G8 JAX47 063001 msd	W		105	105	S2 low
SB 21 G32 JAX47 070101	W		106	114	S2 low
SB 21 G44 JAX47 070101	W		89	93	S2 low
OCP 5 Water	W		87	93	S2 low
OCP 10 Water	W		107	104	S2 low
OCP 50 Water	W		100	100	S2 low
OCP 5 Soil	S		79	87	S1,S2 low
OCP 10 Soil	S		112	107	S1 high, S2 low
OCP 50 Soil	S		100	100	S2 low
Method Blank	S		111	89	S1 high, S2 low
Method Spike	S		133	118	S1 high
SB 07 S-00 JAX47 063001	S		142	132	S1 high
SB 08 S-00 JAX47 063001	S		137	156	S1,S2 high
SB 10 S-00 JAX47 063001	S		149	165	S1,S2 high
SB 28 S-00 JAX47 063001	S		131	133	S1 high
SB 32 S-01 JAX47 070101	S		117	120	S1 high
SB 12 S-01 JAX47 070101	S		120	115	S1 high, S2 low
SB 11 S-01 JAX47 070101	S		117	120	S1 high
SB 17 S-01 JAX47 062501	S		118	112	S1 high, S2 low
SB 24 S-01 JAX47 062601	S		134	135	S1 high
SB 02 S-00 JAX47 062901	S		111	130	S1 high
SB 10 S-00 JAX47 063001 1:20	S		NA	NA	
SB 10 S-00 JAX47 063001 1:100	S		NA	NA	not reported
SB 28 S-00 JAX47 063001 1:20	S		NA	NA	
SB 32 S-01 JAX47 070101 1:10	S		49	79	S1,S2 low
SB 10 S-00 JAX47 063001 1:100	S		NA	NA	
SB 01 S-00 JAX47 062901 1:20	S		NA	NA	
SB 28 S-00 JAX47 063001 1:200	S		NA	NA	
OCP 10 Soil	S		127	134	S1 high
SB 01 S-00 JAX47 062901 1:200	S		NA	NA	

* Surrogate Compounds
S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

Signature: Chi Id Ly

Title: Data Specialist

Date: July 12, 2001

Table 1.8: Analytical Run Sequence/Surrogate Percent Recoveries (07/02/01)

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS, Jacksonville	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil and Water

Sample ID	Sample Matrix	*Control Limits>>*	S1* *87-110*	S2* *118-140*	Comment
OCP 5 Soil	S		88	82	S2 low
OCP 10 Soil	S		107	110	S2 low
OCP 50 Soil	S		100	100	S2 low
Method Blank	S		93	90	S2 low
Method Spike	S		117	103	S1 high, S2 low
SB 05 S-00 JAX47 070201	S		100	114	S2 low
SB 06 S-01 JAX47 070201	S		125	136	S1 high
SB 06 S-01 JAX47 070201 ms 1:5	S		NA	NA	
SB 06 S-01 JAX47 070201 msd 1:5	S		NA	NA	
OCP 10 Soil	S		114	138	S1 high
OCP 5 Water	W		80	57	S1,S2 low
OCP 10 Water	W		111	124	S1 high
OCP 50 Water	W		100	100	S2 low
Method Blank	W		91	59	S2 low
Method Spike	W		95	121	
SB 32 G36 JAX47 070101	W		102	83	S2 low
SB 32 G20 JAX47 070101	W		95	88	S2 low
SB 32 G8 JAX47 070101	W		265	104	S1 high, S2 low
SB 05 G5 JAX47 070201	W		59	33	S1,S2 low
SB 05 G18 JAX47 070201	W		79	90	S1,S2 low
SB 05 G28 JAX47 070201	W		94	99	S2 low
SB 06 G36 JAX47 070201	W		95	101	S2 low
SB 06 G20 JAX47 070201	W		141	99	S1 high, S2 low
SB 33 G28 JAX47 070201	W		81	88	S1,S2 low
SB 33 G18 JAX47 070201	W		79	113	S1,S2 low
SB 33 G8 JAX47 070201	W		76	96	S1,S2 low
OCP 10 Water	W		123	126	S1 high
OCP 100 Water	W		90	100	S2 low
SB 34 G20 JAX47 070201	W		83	104	S1,S2 low
SB 34 G32 JAX47 070201	W		90	74	S2 low
SB 34 G08 JAX47 070201	W		98	128	
SB 35 G36 JAX47 070201	W		87	82	S2 low
SB 35 G20 JAX47 070201	W		92	105	S2 low
SB 35 G08 JAX47 070201	W		92	121	
SB 19 G36 JAX47 070201	W		96	94	S2 low
SB 19 G20 JAX47 070201	W		100	121	
SB 19 G08 JAX47 070201	W		98	109	S2 low
SB 32 G20 JAX47 070101 1:10	W		NA	NA	
SB 32 G8 JAX47 070101 1:100	W		NA	NA	
OCP 10 Water	W		137	119	S1 high
SB 10 S-01 JAX47 063001	S		116	101	S1 high, S2 low
SB 10 S-02 JAX47 063001	S		93	116	S2 low
SB 10 S-01 JAX47 063001 1:200	S		NA	NA	
SB 10 S-02 JAX47 063001 1:100	S		NA	NA	
OCP 50 Soil	S		103	107	S2 low

* Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

Signature: Ch. Hl

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 2.1: Soil Matrix Spike Percent Recoveries (Pesticides 1 to 10)

Client: Tetra Tech (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS Jacksonville, Jacksonville, Florida	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil

Spike Compounds * > > ***Control Limits*** **** > >** **Station/Sample ID:**	**Pest1** *70-100*	**Pest2** *74-106*	**Pest3** *99-180*	**Pest4** *76-103*	**Pest5** *69-98*	**Pest6** *71-92*	**Pest7** *84-112*	**Pest8** *87-108*	**Pest9** *88-112*	**Pest10** *86-111*	**Comment**
SB16 S-01 JAX47 062501 MS	83	81	75	86	85	87	84	87	87	82	3,9,10 low
SB16 S-01 JAX47 062501 MSD	78	75	67	81	81	81	79	82	81	78	3,7,8,9,10 low
RPD	5	6	8	5	4	6	5	5	6	4	
SB30 JAX47 062601 MS	85	85	80	81	86	84	83	84	83	83	3,7,8,9,10 low
SB30 JAX47 062601 MSD	91	91	86	88	94	91	91	93	92	91	3 low
RPD	6	6	6	7	8	7	8	9	9	8	
SB14 S-00 JAX47 062701 MS	94	93	89	88	95	94	93	95	95	93	3 low; 6 high
SB14 S-00 JAX47 062701 MSD	79	77	66	73	79	83	78	80	80	79	3,4,7,8,9,10 low
RPD	15	16	23	15	16	11	15	15	15	14	
SB6 S-00 JAX47 070201 MS	88	88	92	82	54	98	96	103	102	83	3,5,10 low; 6 high
SB6 S-00 JAX47 070201 MSD	73	73	83	75	51	92	92	98	97	90	2,3,4, low
RPD	19	19	10	8	6	6	4	5	5	8	

** Control limits based on MDL recoveries.

* Spike Compounds

Pest1 = alpha-BHC
Pest2 = Lindane
Pest3 = beta-BHC
Pest4 = Heptachlor
Pest5 = delta-BHC
Pest6 = Aldrin
Pest7 = Heptachlor Epoxide
Pest8 = g-Chlordane
Pest9 = a-Chlordane
Pest10 = Endosulfan I

Signature: CL. HC

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 2.2: Soil Matrix Spike Percent Recoveries (Pesticides 11 to 20)

Client: Tetra Tech (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS Jacksonville, Jacksonville, Florida	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Soil

Spike Compounds * > >	Pest11	Pest12	Pest13	Pest14	Pest15	Pest16	Pest17	Pest18	Pest19	Pest20	Comment
Control Limits ** > >	*81-102*	*80-102*	*84-108*	*80-105*	*92-114*	*99-118*	*137-1186*	*107-121*	*109-136*	*100-115*	
Station/Sample ID:											
SB16 S-01 JAX47 062501 MS	89	84	84	92	79	71	68	76	57	77	15,16,17,18,19,20 low
SB16 S-01 JAX47 062501 MSD	85	80	80	88	77	68	65	74	97	79	13,15,16,17,18,19,20 low
RPD	4	4	4	4	2	3	3	2	40	2	
SB30 JAX47 062601 MS	99	83	82	92	81	77	69	82	66	85	13,15,16,17,18,19,20 low
SB30 JAX47 062601 MSD	109	91	91	104	91	88	73	92	82	95	11 high; 15,16,17,18,19,20 low
RPD	10	8	9	12	10	11	4	10	16	10	
SB14 S-00 JAX47 062701 MS	93	94	91	99	93	80	75	95	105	101	16,17,18,19 low
SB14 S-00 JAX47 062701 MSD	77	79	75	79	74	60	45	67	70	92	11,12,13,15,16,17,18,19,20 low
RPD	16	15	16	20	19	20	30	28	35	9	
SB6 S-00 JAX47 070201 MS	107	98	93	109	82	74	56	82	70	96	11,14 high; 15,16,17,18,19,20 low
SB6 S-00 JAX47 070201 MSD	104	94	90	104	89	65	56	79	64	90	11 high; 15,16,17,18,19,20 low
RPD	3	4	3	5	7	16	0	3	9	6	

** Control limits based on MDL recoveries.

* Spike Compounds

Pest11 = 4,4-DDE
Pest12 = Dieldrin
Pest13 = Endrin
Pest14 = 4,4-DDD
Pest15 = Endosulfan II
Pest16 = 4,4-DDT
Pest17 = Endrin Aldehyde
Pest18 = Endosulfan Sulfate
Pest19 = Endrin Ketone
Pest20 = Methoxychlor

Signature:

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 2.3: Water Matrix Spike Percent Recoveries (Pesticides 1 to 10)

Client: Tetra Tech (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS Jacksonville, Jacksonville, Florida	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Water

Spike Compounds * > > *Control Limits* ** > > Station/Sample ID:	Pest1 *70-100*	Pest2 *74-106*	Pest3 *99-180*	Pest4 *76-103*	Pest5 *69-98*	Pest6 *71-92*	Pest7 *84-112*	Pest8 *87-108*	Pest9 *88-112*	Pest10 *86-111*	Comment
SB18 G20 Jax47 MS	86	86	81	80	85	81	84	82	83	84	3,8,9,10 low
SB18 G20 Jax47 MSD	81	82	82	76	80	77	80	77	78	79	3,7,8,9,10 low
RPD	5	4	1	4	5	4	4	5	5	5	
SB21 G8 JAX47 062501 MS	86	88	93	84	84	81	87	85	86	88	3,8,9 low
SB21 G8 JAX47 062501 MSD	80	81	84	78	80	77	84	83	82	85	3,8,9,10 low
RPD	6	7	9	6	4	4	3	2	4	3	
SB26 G35 JAX47 062701 MS	90	92	91	90	85	84	91	85	87	91	3,8,9 low
SB26 G35 JAX47 062701 MSD	91	92	91	88	83	84	90	83	85	89	3,8,9 low
RPD	1	0	0	2	2	0	1	2	2	2	
SB29 G26 JAX47 062801 MS	84	87	93	78	76	80	87	85	85	89	3,8,9 low
SB29 G26 JAX47 062801 MSD	84	87	92	77	75	75	87	84	85	90	3,8,9 low
RPD	0	0	1	1	1	5	0	1	0	1	
SB8 G8 JAX47 063001 MS	95	97	100	86	87	90	98	96	97	99	
SB8 G8 JAX47 063001 MSD	97	100	102	91	89	91	100	99	99	100	
RPD	2	3	2	6	2	1	2	3	2	1	

** Control limits based on MDL recoveries.

* Spike Compounds

Pest1 = alpha-BHC
Pest2 = Lindane
Pest3 = beta-BHC
Pest4 = Heptachlor
Pest5 = delta-BHC
Pest6 = Aldrin
Pest7 = Heptachlor Epoxide
Pest8 = g-Chlordane
Pest9 = a-Chlordane
Pest10 = Endosulfan I

Signature: CL HG

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 2.4: Water Matrix Spike Percent Recoveries (Pesticides 11 to 20)

Client: Tetra Tech (TtNUS)	**Driller/Sampler:** TtNUS	**Analyst:** Mark Mathews
Site: NAS Jacksonville, Jacksonville, Florida	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 06/25/01-07/03/01	**Client Project Manager:** Greg Roof	**Matrix:** Water

Spike Compounds * > > ***Control Limits*** **** > >** **Station/Sample ID:**	**Pest11** *81-102*	**Pest12** *80-102*	**Pest13** *84-108*	**Pest14** *80-105*	**Pest15** *92-114*	**Pest16** *99-118*	**Pest17** *137-1186*	**Pest18** *107-121*	**Pest19** *109-136*	**Pest20** *100-115*	**Comment**
SB18 G20 Jax47 MS	81	82	84	82	84	83	153	84	128	87	15,16,18,20 low
SB18 G20 Jax47 MSD	75	78	78	75	78	75	135	78	86	76	11,12,13,14,15,16,17,18,19,20 low
RPD	6	4	6	7	6	8	18	6	42	11	
SB21 G8 JAX47 062501 MS	81	86	85	82	86	81	94	85	81	90	15,16,17,18,19,20 low
SB21 G8 JAX47 062501 MSD	80	85	82	82	87	78	95	85	85	90	11,13,15,16,17,18,19,20 low
RPD	1	1	3	0	1	3	1	0	4	0	
SB26 G35 JAX47 062701 MS	84	91	90	86	92	82	92	87	93	100	16,17,18,19 low
SB26 G35 JAX47 062701 MSD	77	87	85	76	84	76	81	78	75	90	11,14,15,16,17,18,19,20 low
RPD	7	4	5	10	8	6	11	9	18	10	
SB29 G26 JAX47 062801 MS	79	86	86	87	90	81	85	88	80	95	11,15,16,17,18,19,20 low
SB29 G26 JAX47 062801 MSD	80	89	86	88	93	81	95	89	79	96	11,16,17,18,19,20 low
RPD	1	3	0	1	3	0	10	1	1	1	
SB8 G8 JAX47 063001 MS	92	97	96	97	101	95	92	96	90	100	16,17,18,19 low
SB8 G8 JAX47 063001 MSD	93	98	96	99	100	88	94	97	88	100	16,17,18,19 low
RPD	1	1	0	2	1	7	2	1	2	0	

** Control limits based on MDL recoveries.

* Spike Compounds

Pest11 = 4,4-DDE
Pest12 = Dieldrin
Pest13 = Endrin
Pest14 = 4,4-DDD
Pest15 = Endosulfan II
Pest16 = 4,4-DDT
Pest17 = Endrin Aldehyde
Pest18 = Endosulfan Sulfate
Pest19 = Endrin Ketone
Pest20 = Methoxychlor

Signature: CL. HY

Title: Data Specialist

Date: July 13, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

DATA REPORT NARRATIVE

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst**: Mark Mathews
Site NAS Jacksonville, Jacksonville, Florida	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No**:
Onsite Dates: 6/25/01-7/3/01	**Client Project Manager**: Greg Roof	**Matrix**: Soil and Water

1. Some results were changed due to rounding errors and significant figure errors. None of the changes affected the quality of the data.

2. The following samples and analytes were reported differently, due to transposition by the analyst:

SB22 S00 JAX47 062501 Endosulfan Sulfate: 17.3 ug/kg (field) changed to <12.5 ug/kg
SB22 S00 JAX47 062501 Endrin Ketone: <12.5 ug/kg (field) changed to 17.3 ug/kg

SB29 S00 JAX47 062601 Aldrin: <12.5 ug/kg (field) changed to 13.9 ug/kg
SB29 S00 JAX47 062601 Heptachlor Epoxide: 13.9 ug/kg (field) changed to <12.5 ug/kg

SB4 G8 JAX47 062901 Heptachlor Epoxide: 1.9 ug/L (field) changed to <1 ug/L
SB4 G8 JAX47 062901 g-chlordane: <1 ug/L (field) changed to 1.9 ug/L

MW3 JAX47 062501 Lindane: 2.1 ug/L (field) changed to 2.2 ug/L
MW3 JAX47 062501 beta-BHC: 2.2 ug/L (field) changed to 2.1 ug/L

MW3 JAX47 062501 a-chlordane: 1.0 ug/L (field) changed to <1 ug/L
MW3 JAX47 062501 Endosulfan I: <1 ug/L (field) changed to 1.0 ug/L

MW9373 JAX47 062501 Endrin: 7.1 ug/L (field) changed to <1 ug/L
MW9373 JAX47 062501 4,4'-DDD: <1 ug/L (field) changed to 7.1 ug/L

MW9373 JAX47 062501 Endosulfan Sulfate: 4.0 ug/L (field) changed to <1 ug/L
MW9373 JAX47 062501 Endrin Ketone: <1 ug/L (field) changed to 4.0 ug/L

SB22 G44 JAX47 062601 Heptachlor: 1.1 ug/L (field) changed to <1 ug/L
SB22 G44 JAX47 062601 delta-BHC: <1 ug/L (field) changed to 1.1 ug/L

3. The following samples and analytes were reported differently due to a reporting error by the analyst:

SB22 S00 JAX47 062501 Endrin: 12.1 ug/kg (field) changed to <12.5 ug/kg

SB24 S00 JAX47 062501 4,4'-DDD: 1212 ug/kg (field) changed to 840 ug/kg

SB12 S00 JAX47 062501 4,4'-DDD: 5934 ug/kg (field) changed to 1200ug/kg
SB12 S00 JAX47 062501 4,4'-DDT: 6021 ug/kg (field) changed to 1200 ug/kg

SB16 S00 JAX47 062501 a-chlordane: <12.5 ug/kg (field) changed to 62.6 ug/kg
SB16 S00 JAX47 062501 4,4'-DDD: <12.5 ug/kg (field) changed to <120 ug/kg

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

DATA REPORT NARRATIVE

SB16 S00 JAX47 062501 4,4'-DDT: 30.7 ug/kg (field) changed to 310 ug/kg

SB27 S00 JAX47 062701 beta-BHC: <12.5 ug/kg (field) changed to 12.7 ug/kg

SB8 S00 JAX47 063001 methoxychlor: <12.5 ug/kg (field) changed to 25.4 ug/kg

SB28 S00 JAX47 063001 g-chlordane: 333.1 ug/kg (field) changed to 280 ug/kg
SB28 S00 JAX47 063001 a-chlordane: 389.8 ug/kg (field) changed to 360 ug/kg

SB32 S01 JAX47 070101 Dieldrin: <12.5 ug/kg (field) changed to 14.6 ug/kg

SB10 S01 JAX47 063001 4,4'-DDE: 999 ug/kg (field) changed to 650 ug/kg
SB10 S01 JAX47 063001 Dieldrin: 143.4 ug/kg (field) changed to 1000 ug/kg

SB10 S01 JAX47 063001 4,4'-DDE: 916.4 ug/kg (field) changed to 1200 ug/kg

SB13 G36 JAX47 063001 4,4'-DDD: <1 ug/L (field) changed to 1.4 ug/L

SB13 G20 JAX47 063001 4,4'-DDD: <1 ug/L (field) changed to 2.4 ug/L

SB13 G8 JAX47 063001 beta-BHC: <1 ug/L (field) changed to 1.6 ug/L

SB7 G36 JAX47 063001 4,4'-DDD: <1 ug/L (field) changed to 1.0 ug/L

SB4 G22 JAX47 062901 Heptachlor: <1 ug/L (field) changed to 2.0 ug/L
SB4 G22 JAX47 062901 g-chlordane: <1 ug/L (field) changed to 1.4 ug/L

MW9375 JAX47 062501 Endrin Ketone: <1 ug/L (field) changed to 3.3 ug/L

MW9372 JAX47 062501 4,4'-DDT: <1 ug/L (field) changed to 1.0 ug/L

SB18 G8 JAX47 062501 beta-BHC: <1 ug/L (field) changed to 1.6 ug/L

SB16 G8 JAX47 062501 4,4'-DDE: <1 ug/L (field) changed to 1.1 ug/L
SB16 G8 JAX47 062501 4,4'-DDT: <1 ug/L (field) changed to 1.6 ug/L

SB1 G8 JAX47 063001 4,4'-DDD: <1 ug/L (field) changed to 1.0 ug/L

SB12 G30 JAX47 063001 beta-BHC: <1 ug/L (field) changed to 1.5 ug/L

SB32 G20 JAX47 070101 4,4'-DDT: 1.6 ug/L (field) changed to 2.1 ug/L

SB33 G28 JAX47 070201 beta-BHC: 1.1 ug/L (field) changed to <1.0 ug/L

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

DATA REPORT NARRATIVE

4. Sample ID changed in Data Report to match Chain of Custody:

   SB G36 JAX47 062901 changed to SB3 G36 JAX47 062901

   SB G18 JAX47 062901 changed to SB14 G36 JAX47 062901

   SB2 G8 JAX47 063001 changed to SB2 G8 JAX47 062901

   SB12 G20 JAX47 063001 changed to SB12 G20 JAX47 062901

   SB12 G30 JAX47 063001 changed to SB12 G30 JAX47 062901

   SB12 G36 JAX47 063001 changed to SB31 G36 JAX47 063001

5. Chain of Custody changed to match Data Report and raw data

   SB31 G31 JAX47 063001 changed to SB31 G8 JAX47 063001

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB 01 S-00 JAX47 062901	SB 02 S-00 JAX47 062901	SB 03 S-00 JAX47 062901	SB 04 S-00 JAX47 062901	SB 05 S-0 JAX47 070201	SB 06 S-01 JAX47 070201	SB 07 S-00 JAX47 063001	SB 08 S-00 JAX47 063001	SB 09 S-00 JAX47 062701	SB 10 S-00 JAX47 063001	SB 10 S-01 JAX47 063001	SB 10 S-02 JAX47 063001
alpha-BHC	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Lindane	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
beta-BHC	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Heptachlor	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
delta-BHC	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	22.2	23.2
Aldrin	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Heptachlor epoxide	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	13.7
g-chlordane	28.7	23.8	<12.5	47.6	<12.5	<12.5	<12.5	<12.5	<12.5	65.6	750	81.1
a-chlordane	13.0	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	42.2	680	75.5
Endosulfan I	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
4-4'-DDE	630	<12.5	15.1	162	17.8	16.0	143	<12.5	60.3	930	650	1200
Dieldrin	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	15.2	1000	66.6
Endrin	15.9	14.5	<12.5	32.3	<12.5	<12.5	<12.5	<12.5	<12.5	29.9	50.5	24.6
4-4'-DDD	890.0	<12.5	<12.5	51.1	<12.5	<12.5	102	<12.5	<12.5	2500	3000	5300
Endosulfan II	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
4-4'-DDT	2800.0	15.2	21.9	122	15.3	<12.5	164	<12.5	21.6	14000	6600	30000
Endrin Aldehyde	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Endosulfan Sulfate	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Endrin Ketone	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	20.5
Methoxychlor	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	25.4	<12.5	<12.5	<12.5	13.5

All units ug/Kg

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB 11 S-00 JAX47 062501	SB 11 S-01 JAX47 062601	SB 11 S-01 JAX47 070101	SB 12 S-00 JAX47 062501	SB 12 S-01 JAX47 070101	SB 14 S-00 JAX47 062701	SB 15 S-00 JAX47 062701	SB 16 S-00 JAX47 062501	SB 16 S-01 JAX47 062501	SB 17 S-00 JAX47 062501	SB 20 S-00 JAX47 062701	SB 21 S-00 JAX47 062501
alpha-BHC	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Lindane	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
beta-BHC	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Heptachlor	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
delta-BHC	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Aldrin	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Heptachlor epoxide	<12.5	<12.5	<12.5	15	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
g-chlordane	550	<12.5	<12.5	530	<12.5	<12.5	<12.5	860	<12.5	14.6	<12.5	<12.5
a-chlordane	330	<12.5	<12.5	300	<12.5	<12.5	<12.5	62.6	<12.5	<12.5	<12.5	<12.5
Endosulfan I	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
4-4'-DDE	240	43	<12.5	1050	17.6	<12.5	69.8	680	<12.5	37.3	29.4	30.8
Dieldrin	260	<12.5	<12.5	200	<12.5	<12.5	<12.5	83.0	<12.5	<12.5	<12.5	<12.5
Endrin	200	<12.5	<12.5	220	<12.5	<12.5	<12.5	82.2	<12.5	<12.5	<12.5	<12.5
4-4'-DDD	3800	81.7	<12.5	1200	<12.5	<12.5	<12.5	<120	<12.5	48.5	<12.5	16.0
Endosulfan II	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
4-4'-DDT	370	60.9	<12.5	1200	20.3	<12.5	16.0	310	14.3	121	<12.5	37.0
Endrin Aldehyde	42.5	<12.5	<12.5	35.1	<12.5	<12.5	<12.5	<12.5	50	<12.5	<12.5	54.3
Endosulfan Sulfate	200	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Endrin Ketone	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Methoxychlor	13.4	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5

All units ug/Kg

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB 22 S-00 JAX47 062501	SB 23 S-00 JAX47 062501	SB 24 S-00 JAX47 062501	SB 24 S-01 JAX47 062601	SB 25 S-00 JAX47 062701	SB 26 S-00 JAX47 062701	SB 27 S-00 JAX47 062701	SB 28 S-00 JAX47 063001	SB 29 S-00 JAX47 062601	SB 30 S-00 JAX47 062601	SB 32 S-01 JAX47 070101
alpha-BHC	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Lindane	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
beta-BHC	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	12.7	<12.5	<12.5	<12.5	<12.5
Heptachlor	<12.5	<12.5	<12.5	<12.5	13.3	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
delta-BHC	<12.5	<12.5	16.8	<12.5	82.5	<12.5	<12.5	19.0	<12.5	<12.5	<12.5
Aldrin	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	13.9	<12.5	<12.5
Heptachlor epoxide	<12.5	<12.5	<12.5	<12.5	91.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
g-chlordane	26.9	<12.5	2400	37.4	2600	<12.5	<12.5	280	<12.5	<12.5	60.3
a-chlordane	<12.5	<12.5	1400	<12.5	1380	<12.5	<12.5	360	<12.5	<12.5	60.7
Endosulfan I	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
4-4'-DDE	520	36.8	840	40.0	1200	21.8	17.2	2300	105	24.8	340
Dieldrin	<12.5	<12.5	93.4	<12.5	116	<12.5	<12.5	122	<12.5	<12.5	14.6
Endrin	<12.5	<12.5	1210	30.7	1020	<12.5	<12.5	64.6	<12.5	<12.5	27.1
4-4'-DDD	57.1	14.1	840	21.4	440	<12.5	<12.5	5400	30.2	<12.5	1100
Endosulfan II	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
4-4'-DDT	140	50.9	2300	67.2	1420	<12.5	15.7	2700	56.7	16.5	100
Endrin Aldehyde	60.4	53.8	40.4	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Endosulfan Sulfate	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Endrin Ketone	17.2	21.1	128	<12.5	31.2	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
Methoxychlor	<12.5	<12.5	21.0	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5

All units ug/Kg

	MW3 JAX47 062501	MW 9371 J ax47 062501	MW 9372 JAX47 062501	MW 9373 JAX47 062501	MW 9374 JAX47 062501	MW 9375 JAX47 062501	MW 9376 JAX47 062501	SB 01 G40 JAX47 063001	SB 01 G26 JAX47 06/30/01	SB 01 G8 JAX47 063001	SB2 G36 JAX47 062901	SB2 G22 JAX47 062901
alpha-BHC	8.4	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1
Lindane	2.2	<1	<1	1.8	<1	<1	<1	<1	<1	<1	<1	<1
beta-BHC	2.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
delta-BHC	9.6	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1
Aldrin	<1	7.7	8.5	<1	8.9	2	<1	<1	<1	<1	<1	<1
Heptachlor epoxide	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1
g-chlordane	1.4	5.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	210	<1	<1	7.1	<1	<1	<1	<1	<1	1.0	<1	<1
Endosulfan II	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	22	<1	1.0	7.8	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Aldehyde	3.0	4.6	5.8	5.6	5.2	6.4	6.0	<1	<1	<1	<1	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	6.9	27.8	4.0	<1	3.3	<1	<1	<1	<1	<1	<1
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

All units ug/L

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB2 G8 JAX47 062901	SB 3 G36 JAX47 062901	SB 3 G22 JAX47 062901	SB 3 G6 JAX47 062901	SB4 G36 JAX47 062901	SB 4 G22 JAX47 062901	SB4 G8 JAX47 062901	SB 05 G28 JAX47 070201	SB 05 G18 JAX47 070201	SB 05 G5 JAX47 070201	SB 06 G36 JAX47 070201	SB 06 G20 JAX47 070201
alpha-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lindane	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
beta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor	<1	<1	<1	<1	<1	2.0	1.0	<1	<1	<1	<1	<1
delta-BHC	<1	<1	<1	<1	<1	<1	2.1	<1	<1	<1	<1	1.1
Aldrin	<1	<1	<1	<1	<1	5.9	16	<1	<1	<1	1.6	6.9
Heptachlor epoxide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
g-chlordane	<1	<1	<1	<1	<1	1.4	1.9	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1
Endosulfan II	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	<1	<1	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1
Endrin Aldehyde	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.9
Methoxychlor	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1

All units ug/L

	SB7 G36 JAX47 063010	SB7 G20 JAX47 063010	SB7 G8 JAX47 063010	SB8 G36 JAX47 063001	SB8 G20 JAX47 063001	SB8 G8 JAX47 063001	SB 9 G28 JAX47 062901	SB 9 G16 JAX47 062901	SB9 G8 JAX47 062901	SB 10 G36 JAX47 063001	SB 10 G20 JAX47 063001	SB 10 G8 JAX47 063001
alpha-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lindane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
beta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
delta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor epoxide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
g-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	1.0	2.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan II	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Aldehyde	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

All units ug/L

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB 11 G36 JAX47 063001	SB 11 G28 JAX47 063001	SB 11 G8 JAX47 06/30/01	SB 12 G30 JAX47 062901	SB 12 G20 JAX47 062901	SB 12 G8 JAX47 062601	SB 13 G36 JAX47 063001	SB 13 G20 JAX47 063001	SB 13 G8 JAX47 063001	SB 14 G28 JAX47 062901	SB 14 G18 JAX47 062901	SB 14 G8 JAX47 062901
alpha-BHC	<1	<1	<1	<1	<1	<1	<1	<1	13.1	<1	<1	<1
Lindane	<1	<1	<1	<1	<1	<1	<1	<1	24.4	<1	<1	<1
beta-BHC	<1	<1	<1	1.5	<1	<1	<1	<1	1.6	<1	<1	<1
Heptachlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
delta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	9.6	<1	<1	<1
Aldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor epoxide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
g-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	<1	<1	<1	<1	<1	<1	1.4	2.4	1.1	<1	<1	<1
Endosulfan II	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	<1	<1	<1	<1	<1	<1	<1	<1	5.3	<1	<1	<1
Endrin Aldehyde	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

All units ug/L

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB 15 G32 JAX47 062901	SB 15 G16 JAX47 062901	SB 15 G8 JAX47 062901	SB 16 G32 JAX47 062501	SB 16 G20 JAX47 062501	SB 16 G8 JAX47 062501	SB 17 G20 JAX47 062501	SB 17 G8 JAX47 062601	SB 18 G32 JAX47 062501	SB 18 G20 JAX47 062501	SB 18 G8 JAX47 062501	SB 19 G36 JAX47 070201
alpha-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.2	<1
Lindane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.6	<1
beta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	2.2	<1	1.6	<1
Heptachlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
delta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.6	<1
Aldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor epoxide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
g-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	<1	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1
Endosulfan II	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1
Endrin Aldehyde	<1	<1	<1	4.9	5.6	4.9	5.3	4.8	5.6	6.0	4.5	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

All units ug/L

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB 19 G20 JAX47 070201	SB 19 G08 JAX47 070201	SB 20 G27 JAX47 062801	SB 20 G17 JAX47 062801	SB 20 G7 JAX47 062801	SB 21 G44 JAX47 070101	SB 21 G32 JAX47 070101	SB 21 G8 JAX47 0612601	SB 22 G44 JAX47 062601	SB 22 G26 JAX47 062601	SB 22 G8 JAX47 062601	SB 23 G44 JAX47 062701
alpha-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lindane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
beta-BHC	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	2.7	<1
Heptachlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
delta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1
Aldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor epoxide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
g-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan II	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Aldehyde	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

All units ug/L

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB 23 G26 JAX47 062701	SB 23 G8 JAX47 062601	SB 24 G44 JAX47 062701	SB 24 G26 JAX47 062701	SB 24 G8 JAX47 062601	SB 25 G28 JAX47 062801	SB 25 G18 JAX47 062801	SB 25 G8 JAX47 062801	SB 26 G35 JAX47 062701	SB 26 G22 JAX47 062701	SB 26 G8 JAX47 062701	SB 28 G32 JAX47 063001
alpha-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lindane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
beta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
delta-BHC	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1
Aldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor epoxide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
g-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan II	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Aldehyde	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

All units ug/L

KB LABS, INC.

Final Data Report

NAS Jacksonville

	SB 28 G20 JAX47 063001	SB 28 G8 JAX47 063001	SB 29 G44 JAX47 062701	SB 29 G26 JAX47 062701	SB 29 G8 JAX47 062601	SB29 G44 JAX467 062801	SB 29 G26 JAX47 062801	SB29 G10 JAX47 062801	SB 30 G44 JAX47 062701	SB 30 G26 JAX47 062701	SB 30 G8 JAX47 062601	SB 31 G36 JAX47 063001
alpha-BHC	<1	18	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lindane	<1	29	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
beta-BHC	<1	2.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
delta-BHC	<1	17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor epoxide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
g-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan II	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Aldehyde	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

All units ug/L

	SB 31 G20 JAX47 063001	SB 31 G8 JAX47 063001	SB 32 G36 JAX47 070101	SB 32 G20 JAX47 070101	SB 32 G8 JAX47 070101	SB 33 G28 JAX47 070201	SB 33 G18 JAX47 070201	SB 33 G8 JAX47 070201	SB 34 G32 JAX47 070201	SB 34 G20 JAX47 070201	SB 34 G08 JAX47 070201	SB 35 G36 JAX47 070201
alpha-BHC	<1	<1	12.8	20	140	<1	<1	<1	<1	<1	<1	<1
Lindane	<1	<1	12.2	23	240	<1	<1	<1	<1	<1	<1	<1
beta-BHC	<1	<1	1.2	2.3	19.2	<1	<1	<1	<1	<1	<1	<1
Heptachlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
delta-BHC	<1	<1	8.2	10	120	<1	<1	<1	<1	<1	<1	<1
Aldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Heptachlor epoxide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
g-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
a-chlordane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan I	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin	<1	<1	<1	<1	5	<1	<1	<1	<1	<1	<1	<1
4-4'-DDD	<1	<1	13	12	19.7	<1	<1	<1	<1	<1	<1	<1
Endosulfan II	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-4'-DDT	<1	<1	1.6	2.1	3.7	<1	<1	<1	<1	<1	<1	<1
Endrin Aldehyde	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan Sulfate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endrin Ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

All units ug/L

	SB 35 G20 JAX47 070201	SB 35 G08 JAX47 070201
alpha-BHC	<1	<1
Lindane	<1	<1
beta-BHC	<1	<1
Heptachlor	<1	<1
delta-BHC	<1	<1
Aldrin	<1	<1
Heptachlor epoxide	<1	<1
g-chlordane	<1	<1
a-chlordane	<1	<1
Endosulfan I	<1	<1
4-4'-DDE	<1	<1
Dieldrin	<1	<1
Endrin	<1	<1
4-4'-DDD	<1	<1
Endosulfan II	<1	<1
4-4'-DDT	<1	<1
Endrin Aldehyde	<1	<1
Endosulfan Sulfate	<1	<1
Endrin Ketone	<1	<1
Methoxychlor	<1	<1

All units ug/L

06-25-d

KB LABS, INC.
Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
PSC47 NASJTH	NAS JAX
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thorpe
	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides				Lab I.D. Number
JAX47-SB17-S-00	06/25/01	09:36			JAX47	S			X				
062501													
* SB16-S-00	062501	0955			JAX 47	S							
* SB21-S-00	062501	1002			JAX 47	S							
* SB11-S-00	062501	1042			JAX 47	S							
MW9371	062501	1235			JAX 47 PSC47	W							
MW9374	062501	1258			JAX 47	W							
MW 9375	06/250	1320			JAX47	W							
MW 9373	062501	134			JAX47	W							
SB 18 G32	062501	1400			JAX 47	W							
SB 18 G20	062501	14:30			JAX47	W							
SB 22 S-00	062501	14:20			JAX47	S							
SB 23 S-00	062501	14:45			JAX47	S							
SB 24 S-00	062501	14:30			JAX47	S							
SB 18 G18	062501	1300			JAX47 PSC47	W							

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
	06/25/01		6/25/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	6/25/01		06/25/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

06-25-07

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
PSC47 NAS JAX	NAS JAX
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson
	BATCH # **(Lab Use Only)**

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides	Lab I.D. Number
MW 93 72	062501	1445			JAX47 PSC47	W			X	
SB12 5-8	062501	1445			JAX47	S				
MW 9376	062501	1510			JAX47 PSC47	W				
SB17 G32	062501	15:30			JAX47	W				
SB 17 G20	062501	15:50			JAX47	W				
SB 17 G8	062501	16:10			JAX47	W				
SB 16 G32	062501	1721			JAX47	W				
SB 16 G20	062501	1734			JAX47	W				
SB 16 G08	062501	1746			JAX47	W				

* Sample Homogenized

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Mark Matthews	062501		6/25/07	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	6/25/07	Mark Matthews	062501	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

06/25/01

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME: PSC47 NAS JAX

SITE NAME & ADDRESS: NAS JAX

SAMPLERS: *(Signature)*

CONTACT PERSON: Tom Thompson

BATCH # **(Lab Use Only)**

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides	Lab I.D. Number
SB 12 S-00	062501	0903				S				
MW3	062501	10:40				W				
SB17 S01	062501					S				
SB17 S02	062501	0924				S				
SB17 S03	062501	0924				S				

Precleaned Containers Relinquished by: *(Signature)*	Date / Time 06/25/01	Received by: *(Signature)*	Date / Time 6/25/01	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time 6/25/01	Received by: *(Signature)*	Date / Time 06/25/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

06-26-01

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074
Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
PSC47 NAS JAX	NAS JAX
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson — BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER		SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES + Pesticides	Lab I.D. Number
SB14 S01	06260l	1615			JAx47		S		X	
SB11 S01	062601	0835			JAx47		S		X	
SB21 G8	062601	1010			JAx47	PSC47	W		↓	
SB22 G8	062601	10:30			JAx47	↓	W		↓	
SB24 G8	062601	11:00			JAx47	PSC47	W		↓	
SB23 G8	062601	11:35			JAx47	↓	W		↓	
SB12 G8	062601	1315			JAx47	PSC47	W		↓	
SB29 S-00	062601	1318			JAx47		S		↓	
SB29 G8	062601	1335			JAx47	PSC47	W		↓	
SB30 S-00	062601	1405			JAx47		S		↓	
SB30 G8	062601	1410			JAx47	PSC47	W		↓	

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
Mary Matthews	062601		6/26/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	6/26/01	Mark Matthews	06/26/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

6-27-01

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME: PSC47 NAS JAX

SITE NAME & ADDRESS:

SAMPLERS: *(Signature)*

CONTACT PERSON: Tom Thompson

BATCH # **(Lab Use Only)**

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides				Lab I.D. Number
SB22 G44	062701	09:10			JAX 47 PSC47	W							
SB22 G26	062701	0930			JAX 47	W							
SB24 G44	062701	10:10			JAX 47	W							
SB24 G26	062701	10:25			JAX 47	W							
SB25 S-00	062701	0940			JAX 47	S							
SB26 S-00	062701	10:06			JAX 47	S							
SB23 G44	062701	11:10			JAX 47 PSC47	W							
SB23 G26	062701	11:30			JAX 47	W							
SB29 G44	062701	13:55			JAX 47	W							
SB29 G26	062701	1400			JAX 47	W							
SB27 S-00	062701	1320			JAX 47	S							
SB14 S-00	062701	1410			JAX 47	S							
SB15 S-00	062701	1353			JAX 47	S							
SB09 S-00	062701	1425			JAX 47	S							
SB20 S-00	062701	1435			JAX 47	S							

Precleaned Containers
Relinquished by: *(Signature)* — Date / Time: 062701 — Received by: *(Signature)* — Date / Time: 6/27/01

Relinquished by: *(Signature)* — Date / Time: 6/27/01 — Received by: *(Signature)* — Date / Time: 06/27/01

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

6-27-4

KB LABS inc.
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
PSC47 NAS JAX	NAS JAX
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson — BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides	Lab I.D. Number
SB30 G26	062701	1505			JAX47 PSC47	W				
SB 30 G44	062701	14:55			JAX47	W				
SB 24 G35	062701	17:10			JAX47	W				
SB24 G22	062701	17:25			JAX47	W				
SB24 G8	062701	1735			JAX47	W				

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
	06/27/01		6/27/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	6/27/01		06/27/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

6-28-01

CHAIN-OF-CUSTODY RECORD

KB LABS LLC
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS	
PSC 47 NAS JAX	NAS JAX	
SAMPLERS: *(Signature)*	CONTACT PERSON: Tim Thompson	BATCH # **(Lab Use Only)**

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides	Lab I.D. Number
SB25 G27	062801	0820			JAX 47 PSC47	W				
SB25 G18	062801	0830			JAX 47	W				
SB25 G8	062801	0840			JAX 47	W				
SB29 G26	062801	1455			JAX 47	W				
SB29 G44	062801	1436			JAX 47	W				
SB29 G10	062801	1510			JAX 47	W				
SB20 G27	062801	1615			JAX 47	W				
SB20 G17	062801	1625			JAX 47	W				
SB20 G7	062801	1438			JAX 47	W				

Precleaned Containers Relinquished by: *(Signature)* Mark Matthews	Date / Time 06/28/01	Received by: *(Signature)*	Date / Time 6/28/01	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time 6/28/01	Received by: *(Signature)* Mark Matthews	Date / Time 06/28/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

6-29-01

CHAIN-OF-CUSTODY RECORD

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074
Mobile Laboratory Services

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS	
PSC47 NAS JAX	NAS JAX	
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides					Lab I.D. Number
SB15 G32	062901	0732			JAX47 PSC47	W								
SB15 G16	062901	0752			JAX47 PSC47	W								
SB15 G8	062901	0805			JAX47 PSC47	W								
SB01 5-00	062901	1225			JAX47	S								
SB02 5-00	062901	1233			JAX47	S								
SB03 5-00	062901	1234			JAX47	S								
SB04 5-00	062901	1238			JAX47	S								
SB14 G28	062901	0855			JAX47 (PSC47)	W								
SB14 G18	062901	0905			JAX47 PSC47	W								
SB9 G28	062901	10:15			JAX47 PSC47	W								
SB9 G16	062901	10:30			JAX47 PSC47	W								
SB9 G8	062901	10:40			JAX47 PSC47	W								
SB2 G36	062901	1330			JAX47 PSC47	W								
SB2 G22	062901	1350			JAX47 PSC47	W								
SB2 G8	062901	1400			JAX47 PSC47	W								

Precleaned Containers Relinquished by: *(Signature)*	Date / Time 062901	Received by: *(Signature)*	Date / Time 6/29/01	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time 6/29/01	Received by: *(Signature)*	Date / Time 062901	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

06-29-01

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
PSC47 NAS JAX	NAS JAX
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson
	BATCH # **(Lab Use Only)**

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE 062901	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides	Lab I.D. Number
SB3 G34	062901	1430			JAX 47 PSC47	W				
SB 3 G22	062901	1440			JAX47 PSC47	W				
SB3 G6	062901 062901	1455			JAX47 PSC47	W				
SB12 G30	062901	1800			JAX47 PSC47	W				
SB12 G20	062901	16:10			JAX47 PSC47	W				
SB4 G22	062901 ~~1435~~	1435			JAX47 PSC47	W				
SB4 G8	062901	1450			JAX47 PSC47	W				
SB4 G34	062901	~~1600~~			JAX47 PSC47	W				
SB14 G8	062901	0920			JAX47 PSC47	W				

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
	062901		6/29/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	6/29/01		062901	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

6-30-01

CHAIN-OF-CUSTODY RECORD

KB LABS LLC
Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS		
PSC47 NAS JAX	NAS JAX		
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson	BATCH # **(Lab Use Only)**	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides				Lab I.D. Number
SB31 G36	063001	0722			JAX47 PSC47	W							
SB31 G18	063001	0744			JAX47	W							
SB31 G20	063001	0734			JAX47	W							
SB28 G20	063001	0840			JAX47	W							
SB28 G32	063001	0829			JAX47	W							
SB28 G-8	063001	0847			JAX47	W							
SB13 G36	063001	0937			JAX47	W							
SB13 G20	063001	0943			JAX47	W							
SB13 G8	063001	0951			JAX47	W							
SB07 G36	063001	10:33			JAX47	W							
SB07 G20	063001	10:35			JAX47	W							
SB07 G8	063001	10:48			JAX47	W							
SB08 G36	063001	11:19			JAX47	W							
SB08 G20	063001	11:26			JAX47	W							
SB08 G8	063001	11:34			JAX47	GW							

CAH 7/13/01

Precleaned Containers Relinquished by: *(Signature)*	Date / Time 06/30/01	Received by: *(Signature)*	Date / Time 6/30/01	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time 6/30/01	Received by: *(Signature)*	Date / Time 06/30/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

6-30-01

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS	
PSC47 NAS JAX	NAS JAX	
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides	Lab I.D. Number
SB10 G36	063001	13:12			JAX47 / PSC47	W				
SB10 G20	063001	13:21			JAX47 PSC47	W				
SB10 G8	063001	1329			JAX47 PSC47	W				
SB11 G36	063001	1403			JAX47 PSC47	W				
SB11 G20	063001	1414			JAX47	W				
SB11 G08	063001	1424			JAX47	W				
SB01 G40	063001	1850			JAX47	W				
SB01 G26	063001	1858			JAX47	W				
SB01 G8	063001	1906			JAX47	W				
SB07 S-00	063001	1009			JAX47	S				
SB08 S-00	063001	1040			JAX47	S				
SB10 S-00	063001	1250			JAX47	S				
SB28 S-00	063001				JAX47	S				

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
	06/30/01		6/30/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	6/30/01		06/30/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

07/01/01

CHAIN-OF-CUSTODY RECORD

KB LABS Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS	
PSC 47 NAS JAX	NAS JAX	
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thrupp	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER		SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides					Lab I.D. Number
SB21 G44	070101	11:15			JAX47	PSC47	W			↓					
SB31 G32	070101	1137			JAX47	PSC47	W								
SB32 S-01	070101	1312			JAX47		S								
SB24 S01	062401	1045			JAX47		S								
SB11 S01	063001	1334			JAX47		S								
SB12 S01	062601	1303			JAX47		S								
SB32 G36	070101	1805			JAX47	PSC47	SW								
SB32 G20	070101	1819			JAX47	PSC47	W								
SB32 G8	70101	1834			JAX47	PSC47	W								

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
	07/01/01		7/1/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	7/1/01		07/01/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

07/02/01

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074
Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
PSC47 NAS JAX	NAS JAX
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson
	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides	Lab I.D. Number
SB05 S00	070201	0700			JAx47	~~S~~				
SB05 G28	070201	1139			JAx47 PSC47	W				
SB05 G5	070201	1221			JAx47	W				
SB05 G18	070201	1155			JAx47	W				
SB06 G36	070201 1517	1517			JAx47	W				
SB06 G20	070201	1526			JAx47	W				
SB 33 G28	070201	16:54			JAx47	W				
SB 33 G18	070201	1705			JAx47	W				
SB 33 G08	070201	17:20			JAx47	W				
SB06 S01	070201	1441			JAx47	S				

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
Mark Matthews	070201		7/2/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	7/2/01	Mark Matthews	070201	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

7/3/01

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS	
PSC47 NAS JAX	NAS JAX	
SAMPLERS: *(Signature)*	CONTACT PERSON: Tom Thompson	BATCH # **(Lab Use Only)**

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Pesticides	Lab I.D. Number
SB 34 G20	070201	1826				W				
SB 34 G32	070201	1821				W				
SB 34 G08	070201	1836				W				
SB35 G36	070201	1925				W				
SB35 G20	070201	1935				W				
SB35 G08	070201	1955				W				
SB19 G36	070201	2042				W				
SB19 G20	070201	2110				W				
SB19 G08	070201	2117				W				
SB10 S-01	63001 070201	1252			JAX47	S				
SB10 S-02	070201 63002	1254			JAX41	S				

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
	07 03 01		7/3/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	7/3/01		07/03/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

Final Data Report
NAS-Jacksonville
Site Location - PSC47

6/2/2003

	Well ID	Well ID	Well ID	Well ID	Well ID	Well ID	Well ID	Well ID	Well ID	Well ID	Well ID
	BLANK	JAX47-MW3-062501	JAX47-MW9371-062501	JAX47-MW9374-062501	JAX47-MW9373-062501	JAX47-MW9375-062501	JAX47-SB18-G32-062501	JAX47-SB18-G20-062501	JAX47-SB18-G8-062501	JAX47-MW9372-062501	JAX47-MW9376-062501
Vinyl Chloride	-	-	-	<10	-	-	-	-	-	-	-
trans-Dichloroethene	-	-	-	<10	-	-	-	-	-	-	-
cis-Dichloroethene	-	1.2	380	360	79.3	45.2	2	-	2.3	47.4	3.9
Trichloroethene	-	1.8	3.2	<10	6.3	2.5	-	-	1.3	6.6	-
Tetrachloroethene	-	-	14.0	23	2.3	4.6	-	-	-	21.7	-
Benzene	-	-	7.4	0	-	-	-	-	2.8	-	-
Toluene	-	-	50.2	67	-	-	-	-	37.2	-	-
Ethylbenzene	-	1.6	110	140	-	-	-	-	2.4	4.5	-
o-Xylene	-	2.5	1200	1400	3.3	-	-	-	-	-	-
p,m-Xylene	-	3.5	760	930	3.2	-	-	-	-	-	-
Naphthalene	<3	6.5	130	150	5.2	<3	<3	<3	10.8	<3	<3
1-Methylnaphthalene	<10	16.2	36.7	<100	<10	<10	<10	<10	14	<10	<10
2-Methylnaphthalene	<10	16.5	65.0	<100	<10	<10	<10	<10	<10	<10	<10

Sample Results in ug/L
"-" = Analyte concentration <1 ug/L

	Well ID	Well ID	Well ID	Well ID	Well ID	Well ID
	JAX47-SB17-G32-062501	JAX47-SB17-G20-062501	JAX47-SB17-G8-062501	JAX47-SB16-G32-062501	JAX47-SB16-G20-062501	JAX47-SB16-G8-062501
Vinyl Chloride	<5	-	-	-	-	-
trans-Dichloroethene	<5	-	-	-	-	-
cis-Dichloroethene	<5	-	-	-	-	-
Trichloroethene	<5	-	-	-	-	-
Tetrachloroethene	<5	-	-	-	-	-
Benzene	<5	-	-	-	-	-
Toluene	<5	-	-	-	-	-
Ethylbenzene	<5	-	-	-	-	-
o-Xylene	<5	2.1	-	-	-	-
p,m-Xylene	<5	1.3	-	-	-	-
Naphthalene	<15	<3	<3	<3	<3	<3
1-Methylnaphthalene	<50	<10	<10	<10	<10	<10
2-Methylnaphthalene	<50	<10	<10	<10	<10	<10

Sample Results in ug/L
"-" = Analyte concentration <1 ug/L

DN 3966:30:07

CHAIN-OF-CUSTODY RECORD

KB LABS Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
PSC471	NAS - Jax
SAMPLERS: (Signature)	CONTACT PERSON / BATCH # (Lab Use Only)
Tetra Tech	Greg Roof

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Lab I.D. Number
Jax 471-MW3-062501	6/25/07	1010		✓		W	2	✓	
MW9371-062501		1235							
MW9374-062501		1258							
MW9373-062501		1340							
MW9375-062501		1320							
SB18-G32-062501		1400							
SB18-G20-062501		1430							
SB18-G8-062501		1500							
MW9372-062501		1445							
MW9376-062501		1510							
SB17-G32-062501		1530							
SB17-G20-062501		1550							
SB17-G8-062501		1610							
SB16-G32-062501		1721							
SB16-G20-062501		1734							

Pre-cleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
	6/25/07		6/25/07	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
	6/25/07		6/25/07	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

DN 3966.3Ø!05

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
PSC47	NAS - Jax
SAMPLERS: *(Signature)*	CONTACT PERSON / BATCH # (Lab Use Only)
T+Nus	Greg Roof

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Lab I.D. Number
Jax47-SB16-68-062801		1746		✓		W	2	✓	

Preclearned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
	6/28/01		6/28/01	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
	6/28/01		6/28/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

APPENDIX J

FIXED-BASE LABORATORY ANALYTICAL REPORTS
PHASE II AND PHASE III

J.1 Phase I
J.2 Phase II
J.3 Phase III

J.1 Phase I

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: G. ROOF **DATE:** JUNE 25, 2002

FROM: EDWARD SEDLMYER **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION- HERB
CTO 162, NAS JACKSONVILLE
SDG 46929

Σ 6 | 1 1 | P 3

SAMPLES: 10/Aqueous

JAX47-SB03-G-8-070501 JAX47-SB05-G-5-070601 JAX47-SB06-G-10-070601
JAX47-SB07-G-20-070501 JAX47-SB13-G-8-070601 JAX47-SB18-G-32-070601
JAX47-SB28-G-10-070601 JAX47-SB32-G-36-070601 JAX47-SB33-G-28-070601
JAX47-SB38-G-8-070501

OVERVIEW

The sample set for CTO 162, NAS Jacksonville, SDG 46929 consists of, ten (10) aqueous environmental samples. The samples were analyzed for Target Compound List (TCL) herbicides.

The samples were collected by TetraTech NUS on July 5 and 6, 2001 and analyzed by Southwest Laboratory of Oklahoma. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8151A analysis and reporting protocols. The herbicide data package did not contain any raw data. Data qualification is based on the information provided by the summary forms. The data contained in this SDG were validated with regard to the following parameters:

- Data completeness
- Holding times
- * Initial/continuing calibrations
- * Laboratory method blank results
- Blank Spike results
- * Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Herbicides

All samples were re-extracted due to a laboratory interferent. Because the raw data was not submitted with the data package it is not possible to confirm the presence of the interferent. The results from the re-extracted sample batch are considered to be the valid results with the assumption that the re-extracted samples did not contain the laboratory interferent. Both positive and nondetected results in all samples were qualified as estimated, J and UJ, respectively due to holding time exceedance. Additionally, it should be noted that all re-extracted sample form Is detailed the incorrect date of extraction. The correct date of extraction was detailed on the blank summary form IV.

The percent difference (%D) between analytical columns for several herbicide compounds exceeded 25%.

Positive results greater than 25% but less than 100% were qualified as estimated, J. Positive results associated with %Ds >100% were qualified as rejected, R. The following samples and the results have been qualified :

Sample Number	Compound	% Difference	Qualification
JAX47-SB13-G-8-070601	4-nitrophenol	113%	R
	MCPA	75%	J
	Dichloroprop	188%	R
	Pentachlorophenol	40.0%	J
	2,4,5-TP	126%	R
JAX47-SB33-G-28-070601	MCPP	136%	R
JAX47-SB38-G-8-070501	Dichloroprop	89.7%	J
	2,4-D	83.7%	J
	Dinoseb	86.9%	J

Sample JAX47-SB38-G-08-070501 required a dilution due to exceedances of the linear calibration range of the instrument for dinoseb and 2,4-D. Results from the diluted analysis were transposed over to the undiluted analysis and were used for validation.

The blank spike and blank spike duplicate percent recoveries for MCPA (associated with the re-extracted samples) were poor (0 %R). Positive and nondetected results were qualified as estimated, J, and rejected, R, due to the poor blank spike recoveries.

Additional Comments:

No raw instrument data accompanied the data package. Furthermore, retrieval of data was compromised by the fact that the data was not reviewed for almost one full year after collection.

Positive results less than the reporting limit (RL) were qualified as estimated, "J", due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: All samples were extracted outside of the holding time due to a laboratory contaminant/interferent. The blank spike recovery of MCPA was poor resulting in rejected data.

Other factors affecting data quality: Percent difference between columns exceeded criteria for several compounds.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 3966

SDG: 46929 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX47-SB03-G-8-070501
samp_date	7/5/01
lab_id	46929.03RE
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Gerl	Result	ValQual	QualCode
2,4,5-T	50	0.8	UJ	H
2,4,5-TP (SILVEX)	50	0.5	UJ	H
2,4-D	70	2.5	UJ	H
2,4-DB	56	4.5	UJ	H
4-NITROPHENOL	15	2.5	UJ	H
DALAPON	200	8	UJ	H
DICAMBA	210	1	UJ	H
DICHLOROPROP	35	1.5	UJ	H
DINOSEB	7	1	UJ	H
MCPA	1000	100	UR	E
MCPP		70	UJ	H
PENTACHLOROPHENOL	1	0.5	UJ	H

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/01
lab_id	46929.04RE
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	0.5	UJ	H
2,4-D	2.5	UJ	H
2,4-DB	4.5	UJ	H
4-NITROPHENOL	2.5	UJ	H
DALAPON	8	UJ	H
DICAMBA	1	UJ	H
DICHLOROPROP	1.5	UJ	H
DINOSEB	1	UJ	H
MCPA	100	UR	E
MCPP	70	UJ	H
PENTACHLOROPHENOL	0.5	UJ	H

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/01
lab_id	46929.05RE
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	0.5	UJ	H
2,4-D	2.5	UJ	H
2,4-DB	4.5	UJ	H
4-NITROPHENOL	2.5	UJ	H
DALAPON	8	UJ	H
DICAMBA	1	UJ	H
DICHLOROPROP	1.5	UJ	H
DINOSEB	1	UJ	H
MCPA	100	UR	E
MCPP	70	UJ	H
PENTACHLOROPHENOL	0.5	UJ	H

PROJ_NO: 3966

SDG: 46929 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX47-SB07-G-20-070501
samp_date	7/5/01
lab_id	46929.02RE
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	0.5	UJ	H
2,4-D	2.5	UJ	H
2,4-DB	4.5	UJ	H
4-NITROPHENOL	2.5	UJ	H
DALAPON	8	UJ	H
DICAMBA	1	UJ	H
DICHLOROPROP	1.5	UJ	H
DINOSEB	1	UJ	H
MCPA	100	UJ	H
MCPP	70	UJ	H
PENTACHLOROPHENOL	0.5	UJ	H

nsample	JAX47-SB13-G-8-070601
samp_date	7/6/01
lab_id	46929.07RERA
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	1	R	U
2,4-D	2.5	UJ	H
2,4-DB	4.5	UJ	H
4-NITROPHENOL	1.5	R	U
DALAPON	8	UJ	H
DICAMBA	1	UJ	H
DICHLOROPROP	0.54	R	U
DINOSEB	1	UJ	H
MCPA	100	J	EHU
MCPP	70	UJ	H
PENTACHLOROPHENOL	0.2	J	HPU

nsample	JAX47-SB18-G-32-070601
samp_date	7/6/01
lab_id	46929.08RE
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	0.5	UJ	H
2,4-D	2.5	UJ	H
2,4-DB	4.5	UJ	H
4-NITROPHENOL	2.5	UJ	H
DALAPON	8	UJ	H
DICAMBA	1	UJ	H
DICHLOROPROP	1.5	UJ	H
DINOSEB	1	UJ	H
MCPA	100	UR	E
MCPP	70	UJ	H
PENTACHLOROPHENOL	0.5	UJ	H

PROJ_NO: 3966

SDG: 46929 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX47-SB28-G-10-070601
samp_date	7/6/01
lab_id	46929.10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	0.5	UJ	H
2,4-D	2.5	UJ	H
2,4-DB	4.5	UJ	H
4-NITROPHENOL	2.5	UJ	H
DALAPON	8	UJ	H
DICAMBA	0.36	J	P
DICHLOROPROP	1.5	UJ	H
DINOSEB	1	UJ	H
MCPA	100	UR	E
MCPP	70	UJ	H
PENTACHLOROPHENOL	0.5	UJ	H

nsample	JAX47-SB32-G-36-070601
samp_date	7/6/01
lab_id	46929.09RE
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	0.5	UJ	H
2,4-D	2.5	UJ	H
2,4-DB	4.5	UJ	H
4-NITROPHENOL	2.5	UJ	H
DALAPON	8	UJ	H
DICAMBA	1	UJ	H
DICHLOROPROP	1.5	UJ	H
DINOSEB	1	UJ	H
MCPA	100	UR	E
MCPP	70	UJ	H
PENTACHLOROPHENOL	0.5	UJ	H

nsample	JAX47-SB33-G-28-070601
samp_date	7/6/01
lab_id	46929.06RERA
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	0.5	UJ	H
2,4-D	2.2	J	HP
2,4-DB	4.5	UJ	H
4-NITROPHENOL	2.5	UJ	H
DALAPON	8	UJ	H
DICAMBA	1	UJ	H
DICHLOROPROP	1.5	UJ	H
DINOSEB	1.5	J	H
MCPA	100	UR	E
MCPP	91	R	U
PENTACHLOROPHENOL	0.5	UJ	H

PROJ_NO: 3966

SDG: 46929 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX47-SB38-G-8-070501
samp_date	7/5/01
lab_id	46929.01RE
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.8	UJ	H
2,4,5-TP (SILVEX)	0.5	UJ	H
2,4-D	25	J	PUH
2,4-DB	4.5	UJ	H
4-NITROPHENOL	2.5	UJ	H
DALAPON	8	UJ	H
DICAMBA	1	UJ	H
DICHLOROPROP	1.6	J	PUH
DINOSEB	6.7	J	PUH
MCPA	100	UR	E
MCPP	70	UJ	H
PENTACHLOROPHENOL	0.5	UJ	H

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **G. ROOF** **DATE:** **JUNE 25, 2002**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- DIOXINS**
CTO 162, NAS JACKSONVILLE
SDG 46930

SAMPLES: 4/Aqueous

JAX47-SB05-G-5-070601 JAX47-SB06-G-10-070601 JAX47-SB33-G-28-070601
JAX47-SB38-G-8-070501

OVERVIEW

The sample set for CTO 162, NAS Jacksonville, SDG 46930 consists of, four (4) aqueous environmental samples. The samples were analyzed for polychlorinated dibenzodioxins and polychlorinated dibenzofurans (PCDD/PCDF).

The samples were collected by TetraTech NUS on July 5 and 6, 2001 and analyzed by Southwest Laboratory of Oklahoma. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8290 analysis and reporting protocols. The Dioxin data package did not contain any raw data. Data qualification is based on the information provided by the summary forms. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial/continuing calibrations
• Laboratory method and trip blank results
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Dioxins

The following compounds were detected in the method blanks:

Compound	Maximum Concentration	Blank Action Level
OCDD	11.6 pg/L	58 pg/L
OCDF	8.388 pg/L	26.9 pg/L
1,2,3,4,6,7,8-HpCDD	2.474 pg/L	12.37 pg/L
Total HpCDD	2.474 pg/L	12.37 pg/L

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for OCDF below the blank action level were qualified as non-detected, U.

Ion abundance ratios did not meet quality control criteria for the following congeners OCDF in sample JAX47-SB33-G-28-070601 and, 1,2,3,4,6,7,8-HpCDD and 1,2,3,4,6,7,8-HpCDF in sample JAX47-SB38-G-8-070501. The results were qualified due to blank contamination or were reported as EMPCs and qualified as non-detected.

Additional Comments: Data package contained only summary forms, not raw data.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several target compounds were detected in the method blanks.

Other factors affecting data quality: Data package contained only summary forms, not raw data.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Review of PCDD/PCDF Data (1/96) and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)." However, due to the absence of raw data the data validation process was limited to the information supplied by the data summary forms.

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 3966

SDG: 46930 MEDIA: WATER DATA FRACTION: DIOX

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/2001
lab_id	46930.04
qc_type	NM
units	PG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,2,3,4,6,7,8,9-OCDD	81.44		
1,2,3,4,6,7,8,9-OCDF	1.161	U	
1,2,3,4,6,7,8-HPCDD	8.408		
1,2,3,4,6,7,8-HPCDF	0.477	U	
1,2,3,4,7,8,9-HPCDF	0.701	U	
1,2,3,4,7,8-HXCDD	1.177	U	
1,2,3,4,7,8-HXCDF	0.705	U	
1,2,3,6,7,8-HXCDD	1.024	U	
1,2,3,6,7,8-HXCDF	0.677	U	
1,2,3,7,8,9-HXCDD	1.044	U	
1,2,3,7,8,9-HXCDF	0.945	U	
1,2,3,7,8-PECDD	0.952	U	
1,2,3,7,8-PECDF	0.798	U	
2,3,4,6,7,8-HXCDF	0.756	U	
2,3,4,7,8-PECDF	0.766	U	
2,3,7,8-TCDD	0.916	U	
2,3,7,8-TCDF	1.755	U	
TOTAL HPCDD	22.33		
TOTAL HPCDF	0.477	U	
TOTAL HXCDD	14.95		
TOTAL HXCDF	0.677	U	
TOTAL PECDD	5.152		
TOTAL PECDF	0.766	U	
TOTAL TCDD	3.580		
TOTAL TCDF	1.755	U	

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/2001
lab_id	46930.05
qc_type	NM
units	PG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,2,3,4,6,7,8,9-OCDD	26.97	U	A
1,2,3,4,6,7,8,9-OCDF	5.711	U	A
1,2,3,4,6,7,8-HPCDD	3.514	U	A
1,2,3,4,6,7,8-HPCDF	0.510	U	
1,2,3,4,7,8,9-HPCDF	0.750	U	
1,2,3,4,7,8-HXCDD	1.112	U	
1,2,3,4,7,8-HXCDF	0.641	U	
1,2,3,6,7,8-HXCDD	0.968	U	
1,2,3,6,7,8-HXCDF	0.616	U	
1,2,3,7,8,9-HXCDD	0.987	U	
1,2,3,7,8,9-HXCDF	0.859	U	
1,2,3,7,8-PECDD	0.966	U	
1,2,3,7,8-PECDF	0.723	U	
2,3,4,6,7,8-HXCDF	0.687	U	
2,3,4,7,8-PECDF	0.694	U	
2,3,7,8-TCDD	0.893	U	
2,3,7,8-TCDF	1.250	U	
TOTAL HPCDD	9.056	U	A
TOTAL HPCDF	0.510	U	
TOTAL HXCDD	0.968	U	
TOTAL HXCDF	0.616	U	
TOTAL PECDD	0.966	U	
TOTAL PECDF	0.694	U	
TOTAL TCDD	13.01		
TOTAL TCDF	1.250	U	

nsample	JAX47-SB33-G-28-07060[illegible]
samp_date	7/6/2001
lab_id	46930.06
qc_type	NM
units	PG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,2,3,4,6,7,8,9-OCDD	251.9		
1,2,3,4,6,7,8,9-OCDF	4.224	U	A
1,2,3,4,6,7,8-HPCDD	61.91		
1,2,3,4,6,7,8-HPCDF	0.497	U	
1,2,3,4,7,8,9-HPCDF	0.730	U	
1,2,3,4,7,8-HXCDD	1.487	U	
1,2,3,4,7,8-HXCDF	0.676	U	
1,2,3,6,7,8-HXCDD	1.294	U	
1,2,3,6,7,8-HXCDF	0.649	U	
1,2,3,7,8,9-HXCDD	14.59		
1,2,3,7,8,9-HXCDF	0.905	U	
1,2,3,7,8-PECDD	1.149	U	
1,2,3,7,8-PECDF	0.777	U	
2,3,4,6,7,8-HXCDF	0.724	U	
2,3,4,7,8-PECDF	0.746	U	
2,3,7,8-TCDD	0.871	U	
2,3,7,8-TCDF	1.018	U	
TOTAL HPCDD	147.5		
TOTAL HPCDF	0.497	U	
TOTAL HXCDD	218.7		
TOTAL HXCDF	0.649	U	
TOTAL PECDD	107.7		
TOTAL PECDF	0.746	U	
TOTAL TCDD	138.0		
TOTAL TCDF	1.018	U	

PROJ_NO: 3966

SDG: 46930 MEDIA: WATER DATA FRACTION: DIOX

nsample	JAX47-SB38-G-8-070501
samp_date	7/5/2001
lab_id	46930.01
qc_type	NM
units	PG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,2,3,4,6,7,8,9-OCDD	422.2		
1,2,3,4,6,7,8,9-OCDF	7.482	U	A
1,2,3,4,6,7,8-HPCDD	17.31	U	W
1,2,3,4,6,7,8-HPCDF	2.385	U	W
1,2,3,4,7,8,9-HPCDF	1.147	U	
1,2,3,4,7,8-HXCDD	1.216	U	
1,2,3,4,7,8-HXCDF	4.405	U	
1,2,3,6,7,8-HXCDD	1.058	U	
1,2,3,6,7,8-HXCDF	4.230	U	
1,2,3,7,8,9-HXCDD	1.079	U	
1,2,3,7,8,9-HXCDF	5.901	U	
1,2,3,7,8-PECDD	1.200	U	
1,2,3,7,8-PECDF	1.724	U	
2,3,4,6,7,8-HXCDF	4.721	U	
2,3,4,7,8-PECDF	1.654	U	
2,3,7,8-TCDD	2.309	U	
2,3,7,8-TCDF	3.380	U	
TOTAL HPCDD	27.44		
TOTAL HPCDF	0.780	U	
TOTAL HXCDD	13.09		
TOTAL HXCDF	4.230	U	
TOTAL PECDD	1.200	U	
TOTAL PECDF	1.654	U	
TOTAL TCDD	2.309	U	
TOTAL TCDF	3.380	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

10
16
20
25
36

TO: G. ROOF **DATE:** JUNE 26, 2002

FROM: EDWARD SEDLMYER **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION- VOA/SVOA/PEST/PCB/OPPEST
CTO 162, NAS JACKSONVILLE
SDG WR2363

SAMPLES: 15/Aqueous

JAX47-SB37-G-22-070501	JAX47-SB38-G-22-070501	JAX47-SB38-G-8-070501
JAX47-SB39-G-20-070501	JAX47-SB07-G-20-070501	JAX47-SB33-G-28-070601
JAX47-SB32-G-36-070601	JAX47-SB28-G-10-070601	JAX47-SB03-G-8-070501
JAX47-SB05-G-5-070601	JAX47-SB06-G-10-070601	JAX47-SB33-G-8-070601
JAX47-SB13-G-8-070601	JAX47-SB18-G-32-070601	

OVERVIEW

The sample set for CTO 162, NAS Jacksonville, SDG WR2363 consists of, fourteen (14) aqueous environmental samples. Six samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs); three samples were analyzed for semivolatile organic compounds (SVOA); thirteen samples were analyzed for pesticides (PEST); two samples were analyzed for PCBs; and nine samples were analyzed for organophosphorus pesticides.

The samples were collected by TetraTech NUS on July 5 and 6, 2001 and analyzed by Katahdin Analytical Services, organophosphorus pesticides were analyzed by STL, Pittsburgh. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, 8081A, 8082, and 8141A analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial/continuing calibrations
• Laboratory method and trip blank results
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Volatile

Samples: JAX47-SB03-G-8-070501, JAX47-SB05-G-5-070601, JAX47-SB06-G-10-070601, JAX47-SB33-G-8-070601, JAX47-SB18-G-32-070601, and JAX47-SB13-G-8-070601.

Continuing calibration %D outside the 50% quality control limit on 7/12/01 for acetone. Positive result reported for acetone in sample JAX47-SB18-G-32-070601 was qualified as estimated "J".

The following compounds were detected in the method blanks:

Compound	Maximum Concentration	Blank Action Level
Acetone	3 ug/L	30 ug/L
Methylene Chloride	2 ug/L	20.0 µg/L
Chloromethane	0.8 ug/L	4.0 ug/L
1,2-Dichloroethane	0.4 µg/L	2.0 µg/L
1,2,4-trichlorobenzene	3.0 ug/L	15 ug/L

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for acetone, chloromethane, methylene chloride, 1,2-dichloroethane, and 1,2,4-trichlrobenzene below the blank action level were qualified as non-detected, U.

Sample JAX47-SB06-G-10-070601 required a dilution due to high concentrations of VOAs.

Semivolatile

Samples: JAX47-SB03-G-8-070501, JAX47-SB05-G-5-070601, and JAX47-SB06-G-10-070601.

No qualification of the data was necessary.

Pesticide

Samples: All samples except JAX47-SB33-G-8-070601.

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for delta-BHC in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	% Difference	Qualification
JAX47-SB28-G-10-070601	delta-BHC	28%	J
JAX47-SB18-G-32-070601	delta-BHC	49%	J

Samples JAX47-SB38-G-22-070501, JAX47-SB38-G-8-070501, JAX47-SB32-G-36-070601, and JAX47-SB13-G-8-070601 required dilutions due to high concentrations of pesticides.

PCB

Samples: JAX47-SB03-G-8-070501 and JAX47-SB05-G-5-070601.

No qualification of the data was necessary.

Organophosphours Pesticides

Samples: JAX47-SB07-G-20-070501, JAX47-SB03-G-8-070501, JAX47-SB05-G-5-070601, JAX47-SB06-G-10-070601, JAX47-SB13-G-8-070601, JAX47-SB33-G-28-070601, JAX47-SB18-G-32-070601, JAX47-SB32-G-36-070601, and JAX-SB28-G-10-070601.

No qualification of the data was necessary.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated, J, due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several compounds exceeded the continuing calibration %D criteria. Several target compounds were detected in the method blanks.

Other factors affecting data quality: Percent difference between columns exceeded criteria for several compounds.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB03-G-8-070501
samp_date	7/5/01
lab_id	WR2363-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	0.8	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	4	J	P

nsample	JAX47-SB03-G-8-070501
samp_date	7/5/01
lab_id	WR2363-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	0.4	J	P
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/01
lab_id	WR2363-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	10	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	2	J	P
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	0.3	J	P

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/01
lab_id	WR2363-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/01
lab_id	WR2363-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	0.4	J	P
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	2	J	P
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	4	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	0.9	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	1	J	P
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	2	J	P
CHLOROFORM	5	U	
CHLOROMETHANE	1	J	P
CIS-1,2-DICHLOROETHENE	600		

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/01
lab_id	WR2363-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	50		
ISOPROPYLBENZENE	3	J	P
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	7		
TOLUENE	11		
TOTAL XYLENES	280		
TRANS-1,2-DICHLOROETHENE	1	J	P
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	4	J	P

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB13-G-8-070601
samp_date	7/6/01
lab_id	WR2363-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	1	J	P
1,2-DICHLOROETHANE	5	U	A
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	4	J	P
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	28		
BENZENE	2	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	18		
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	0.6	J	P
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-SB13-G-8-070601
samp_date	7/6/01
lab_id	WR2363-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	4	J	P
ISOPROPYLBENZENE	0.7	J	P
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	0.4	J	P
TOTAL XYLENES	21		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	11		
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB18-G-32-070601
samp_date	7/6/01
lab_id	WR2363-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	0.4	J	P
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB18-G-32-070601
samp_date	7/6/01
lab_id	WR2363-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	2	J	P
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB33-G-8-070601
samp_date	7/6/01
lab_id	WR2363-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-SB33-G-8-070601
samp_date	7/6/01
lab_id	WR2363-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-SB03-G-8-070501
samp_date	7/5/2001
lab_id	WR2363-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	10	U	
2,2'-OXYBIS(1-CHLOROPROPA	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENO	25	U	
4-BROMOPHENYL PHENYL ET	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ET	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANTHRACENE	10	U	
ATRAZINE	10	U	

nsample	JAX47-SB03-G-8-070501
samp_date	7/5/2001
lab_id	WR2363-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	10	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHA	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALAT	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CAPROLACTAM	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADI	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
N-NITROSO-DI-N-PROPYLAMIN	10	U	
N-NITROSODIPHENYLAMINE	10	U	
NAPHTHALENE	0.8	J	P

nsample	JAX47-SB03-G-8-070501
samp_date	7/5/2001
lab_id	WR2363-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PYRENE	10	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/2001
lab_id	WR2363-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	10	U	
2,2'-OXYBIS(1-CHLOROPROPA	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	8	J	P
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENO	25	U	
4-BROMOPHENYL PHENYL ET	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ET	10	U	
4-METHYLPHENOL	3	J	P
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANTHRACENE	10	U	
ATRAZINE	10	U	

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/2001
lab_id	WR2363-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	10	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHA	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	J	P
BUTYL BENZYL PHTHALATE	10	U	
CAPROLACTAM	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADI	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
N-NITROSO-DI-N-PROPYLAMIN	10	U	
N-NITROSODIPHENYLAMINE	10	U	
NAPHTHALENE	10	U	

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/2001
lab_id	WR2363-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PYRENE	10	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/2001
lab_id	WR2363-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	10	U	
2,2'-OXYBIS(1-CHLOROPROPA	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	4	J	P
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	52		
2-METHYLPHENOL	2	J	P
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENO	25	U	
4-BROMOPHENYL PHENYL ET	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ET	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANTHRACENE	10	U	
ATRAZINE	10	U	

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/2001
lab_id	WR2363-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	10	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHA	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	J	P
BUTYL BENZYL PHTHALATE	10	U	
CAPROLACTAM	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DI-N-BUTYL PHTHALATE	0.9	J	P
DI-N-OCTYL PHTHALATE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	2	J	P
DIMETHYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADI	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
N-NITROSO-DI-N-PROPYLAMIN	10	U	
N-NITROSODIPHENYLAMINE	10	U	
NAPHTHALENE	60		

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/2001
lab_id	WR2363-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PYRENE	10	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX47-SB03-G-8-070501
samp_date	7/5/2001
lab_id	C1G100180002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

GCTLs ug/L

Parameter		Result	ValQual	QualCode
AZINPHOS METHYL	NL	1.0	U	
BOLSTAR	NL	1.0	U	
CHLORPYRIFOS	21	1.0	U	
COUMAPHOS	1.8	1.0	U	
DEMETON	0.3	1.0	U	
DIAZINON	0.63	1.0	U	
DICHLORVOS	0.1	1.0	U	
ETHOPROP	0.7	1.0	U	
ETHYL PARATHION	NL	1.0	U	
FENSULFOTHION	1.8	1.0	U	
FENTHION	NL	1.0	U	
MALATHION	140	1.0	U	
MERPHOS	0.2	1.0	U	
METHYL PARATHION	1.8	1.0	U	
MEVINPHOS	1.8	1.0	U	
NALED	14	1.0	U	
PHORATE	1.4	1.0	U	
RONNEL	350	1.0	U	
TRICHLORONATE	NL	1.0	U	

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/2001
lab_id	C1G100180003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMETON	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
TRICHLORONATE	1.0	U	

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/2001
lab_id	WR2363-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMETON	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX47-SB07-G-20-070501
samp_date	7/5/2001
lab_id	C1G100180001
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMETON	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
TRICHLORONATE	1.0	U	

nsample	JAX47-SB13-G-8-070601
samp_date	7/6/2001
lab_id	C1G100180005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMETON	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
TRICHLORONATE	1.0	U	

nsample	JAX47-SB18-G-32-070601
samp_date	7/6/2001
lab_id	C1G100180007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMETON	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX47-SB28-G-10-070601
samp_date	7/6/2001
lab_id	C1G100180009
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMETON	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
TRICHLORONATE	1.0	U	

nsample	JAX47-SB32-G-36-070601
samp_date	7/6/2001
lab_id	C1G100180008
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMETON	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
TRICHLORONATE	1.0	U	

nsample	JAX47-SB33-G-28-070601
samp_date	7/6/2001
lab_id	C1G100180006
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMETON	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB03-G-8-070501
samp_date	7/5/01
lab_id	WR2363-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.026	J	P
4,4'-DDE	0.10	U	
4,4'-DDT	0.015	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
AROCLOR-1016	0.50	U	
AROCLOR-1221	0.50	U	
AROCLOR-1232	0.50	U	
AROCLOR-1242	0.50	U	
AROCLOR-1248	0.50	U	
AROCLOR-1254	0.50	U	
AROCLOR-1260	0.50	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB05-G-5-070601
samp_date	7/6/01
lab_id	WR2363-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.24		
4,4'-DDE	0.10	U	
4,4'-DDT	0.047	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.027	J	P
ALPHA-CHLORDANE	0.050	U	
AROCLOR-1016	0.50	U	
AROCLOR-1221	0.50	U	
AROCLOR-1232	0.50	U	
AROCLOR-1242	0.50	U	
AROCLOR-1248	0.50	U	
AROCLOR-1254	0.50	U	
AROCLOR-1260	0.50	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.022	J	P
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB06-G-10-070601
samp_date	7/6/01
lab_id	WR2363-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	1.1	U	
4,4'-DDE	1.1	U	
4,4'-DDT	0.38	J	P
ALDRIN	0.54	U	
ALPHA-BHC	0.54	U	
ALPHA-CHLORDANE	0.54	U	
BETA-BHC	0.54	U	
DELTA-BHC	0.54	U	
DIELDRIN	1.1	U	
ENDOSULFAN I	0.54	U	
ENDOSULFAN II	1.1	U	
ENDOSULFAN SULFATE	1.1	U	
ENDRIN	1.1	U	
ENDRIN ALDEHYDE	1.1	U	
ENDRIN KETONE	1.1	U	
GAMMA-BHC (LINDANE)	0.41	J	P
GAMMA-CHLORDANE	0.54	U	
HEPTACHLOR	0.54	U	
HEPTACHLOR EPOXIDE	0.54	U	
METHOXYCHLOR	5.4	U	
TOXAPHENE	11	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB07-G-20-070501
samp_date	7/5/01
lab_id	WR2363-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.052	J	P
4,4'-DDE	0.017	J	P
4,4'-DDT	0.017	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB13-G-8-070601
samp_date	7/6/01
lab_id	WR2363-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	160		
4,4'-DDE	11	U	
4,4'-DDT	11	U	
ALDRIN	5.5	U	
ALPHA-BHC	5.5	U	
ALPHA-CHLORDANE	5.5	U	
BETA-BHC	5.5	U	
DELTA-BHC	5.5	U	
DIELDRIN	11	U	
ENDOSULFAN I	5.5	U	
ENDOSULFAN II	11	U	
ENDOSULFAN SULFATE	11	U	
ENDRIN	11	U	
ENDRIN ALDEHYDE	11	U	
ENDRIN KETONE	11	U	
GAMMA-BHC (LINDANE)	5.5	U	
GAMMA-CHLORDANE	5.5	U	
HEPTACHLOR	5.5	U	
HEPTACHLOR EPOXIDE	5.5	U	
METHOXYCHLOR	55	U	
TOXAPHENE	110	U	

nsample	JAX47-SB18-G-32-070601
samp_date	7/6/01
lab_id	WR2363-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	1.1		
4,4'-DDE	0.10		
4,4'-DDT	0.39		
ALDRIN 0.050	0.050	U	
ALPHA-BHC	0.025	J	P
ALPHA-CHLORDANE	0.026	J	P
BETA-BHC	0.080		
DELTA-BHC	0.061	J	U
DIELDRIN	0.021	J	P
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.024	J	P
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.017	J	P
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB28-G-10-070601
samp_date	7/6/01
lab_id	WR2363-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.46		
4,4'-DDE	0.094	J	P
4,4'-DDT	0.057	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.26		
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.12		
DELTA-BHC	0.43	J	U
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.16		
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.021	J	P
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB32-G-36-070601
samp_date	7/6/01
lab_id	WR2363-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	31		
4,4'-DDE	5.0	U	
4,4'-DDT	8.9		
ALDRIN	2.5	U	
ALPHA-BHC	1.0	J	P
ALPHA-CHLORDANE	2.5	U	
BETA-BHC	2.5	U	
DELTA-BHC	1.1	J	P
DIELDRIN	5.0	U	
ENDOSULFAN I	2.5	U	
ENDOSULFAN II	5.0	U	
ENDOSULFAN SULFATE	5.0	U	
ENDRIN	5.0	U	
ENDRIN ALDEHYDE	5.0	U	
ENDRIN KETONE	5.0	U	
GAMMA-BHC (LINDANE)	0.79	J	P
GAMMA-CHLORDANE	2.5	U	
HEPTACHLOR	2.5	U	
HEPTACHLOR EPOXIDE	2.5	U	
METHOXYCHLOR	25	U	
TOXAPHENE	50	U	

nsample	JAX47-SB33-G-28-070601
samp_date	7/6/01
lab_id	WR2363-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.032	J	P
4,4'-DDT	0.016	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.021	J	P
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB37-G-22-070501
samp_date	7/5/01
lab_id	WR2363-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.12		
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB38-G-22-070501
samp_date	7/5/01
lab_id	WR2363-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	83		
4,4'-DDE	1.6	J	P
4,4'-DDT	44		
ALDRIN	4.8	U	
ALPHA-BHC	4.8	U	
ALPHA-CHLORDANE	4.8	J	P
BETA-BHC	4.8	U	
DELTA-BHC	4.8	U	
DIELDRIN	9.7	U	
ENDOSULFAN I	4.8	U	
ENDOSULFAN II	9.7	U	
ENDOSULFAN SULFATE	42		
ENDRIN	9.7	U	
ENDRIN ALDEHYDE	9.7	U	
ENDRIN KETONE	9.7	U	
GAMMA-BHC (LINDANE)	4.8	U	
GAMMA-CHLORDANE	4.7	J	P
HEPTACHLOR	4.8	U	
HEPTACHLOR EPOXIDE	4.8	U	
METHOXYCHLOR	48	U	
TOXAPHENE	97	U	

nsample	JAX47-SB38-G-8-070501
samp_date	7/5/01
lab_id	WR2363-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	47		
4,4'-DDE	9.6	U	
4,4'-DDT	14		
ALDRIN	4.8	U	
ALPHA-BHC	4.8	U	
ALPHA-CHLORDANE	4.8	U	
BETA-BHC	4.8	U	
DELTA-BHC	4.8	U	
DIELDRIN	9.6	U	
ENDOSULFAN I	4.8	U	
ENDOSULFAN II	9.6	U	
ENDOSULFAN SULFATE	7.3	J	P
ENDRIN	9.6	U	
ENDRIN ALDEHYDE	9.6	U	
ENDRIN KETONE	9.6	U	
GAMMA-BHC (LINDANE)	4.8	U	
GAMMA-CHLORDANE	4.8	U	
HEPTACHLOR	4.8	U	
HEPTACHLOR EPOXIDE	4.8	U	
METHOXYCHLOR	48	U	
TOXAPHENE	96	U	

PROJ_NO: 3966

SDG: WR2363 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB39-G-20-070501
samp_date	7/5/01
lab_id	WR2363-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.16		
4,4'-DDE	0.10	U	
4,4'-DDT	0.041	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.054		
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.026	J	P
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **G. ROOF** **DATE:** **JUNE 25, 2002**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PEST**
CTO 162, NAS JACKSONVILLE
SDG CTO162-1

SAMPLES: 20/Aqueous

PEST ONLY
NO VOC

JAX47-SB03-G-8-121801	JAX47-SB05-G-20-121901	JAX47-SB06-28-121901
JAX47-SB13-G-20-121801	JAX47-SB29-G-8-121901	JAX47-SB30-G-8-121901
JAX47-SB43-G-20-121801	JAX47-SB43-G-8-1218-1	JAX47-SB45-G-8-121801
JAX47-SB47-G-20-121801	JAX47-SB47-G-8-121801	JAX47-SB48-G-20-121801
*JAX47-SB48-G-8-121801	*JAX47-SB57-G-08-121901	*JAX47-SB57-G-20-121901
*JAX47-SB57-G-36-121901	TRIP121801	TRIP BLANK-121901
*JAX47-SB38-G-36-121801	JAX47-SB06-G-16-121901	

OVERVIEW

The sample set for CTO 162, NAS Jacksonville, SDG CTO162-1 consists of, two (2) trip blanks, and eighteen (18) aqueous environmental samples. The samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) and pesticides (PEST). The trip blanks were analyzed for VOAs only. The "*" indicates that the sample was analyzed for pesticides.

The samples were collected by TetraTech NUS on December 18 and 19, 2001 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B and 8081A analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial/continuing calibrations
• Laboratory method and trip blank results
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Volatile

Continuing calibration %D outside the 50% quality control limit on 12/21/01 for acetone and 2-hexanone. Positive results reported for the aforementioned compounds were qualified as estimated (J), in the affected aqueous samples.

The following compounds were detected in the method blanks:

Compound	Maximum Concentration	Blank Action Level
Acetone	9 ug/L	90 ug/L
Methylene Chloride	2 ug/L	20.0 µg/L
MTBE	0.4 ug/L	2.0 ug/L
1,4-Dichlorobenzene	0.4 ug/L	2.0 ug/L
1,2-Dichlorobenzene	0.4 µg/L	2.0 µg/L
1,2,4-trichlorobenzene	4 ug/L	20 ug/L

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for methylene chloride, acetone, MTBE, 1,2-dichlorobenzene, 1,4-dichlorobenzene and 1,2,4-trichlorobenzene below the blank action level were qualified as non-detected, U. Field quality control blanks were not qualified based on laboratory method blank contamination.

Samples JAX47-SB06-G-28-121901 and JAX47-SB57-G-08-121901 required dilutions due to high concentrations of VOAs.

Pesticide

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for several compounds in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	% Difference	Qualification
JAX47-SB57-G-36-121901	Alpha-BHC	44%	J
	Delta-BHC	32%	J
JAX47-SB57-G-20-121901	Alpha-BHC	32%	J
JAX47-SB38-G-36-121801	4-4'-DDE	43%	J

Samples JAX47-SB57-G-08-121901 and JAX47-SB57-G-20-121901 required dilutions due to high concentrations of pesticides.

Additional Comments:

Sample JAX47-SB48-G-8-121801 was not labeled for pesticide analysis on the Chain of Custody. The laboratory analyzed the sample for pesticides as instructed by T. Thompson.

Positive results less than the reporting limit (RL) were qualified as estimated, J, due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several compounds exceeded the continuing calibration %D criteria. Several target compounds were detected in the method blanks.

Other factors affecting data quality: Percent difference between columns exceeded criteria for several compounds.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB03-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	2	J	P

nsample	JAX47-SB03-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB05-G-20-121901
samp_date	12/19/2001
lab_id	WR4197-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB05-G-20-121901
samp_date	12/19/2001
lab_id	WR4197-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB06-G-16-121901
samp_date	12/19/2001
lab_id	WR4197-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	0.8	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	0.4	J	P
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	6		

nsample	JAX47-SB06-G-16-121901
samp_date	12/19/2001
lab_id	WR4197-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB06-G-28-121901
samp_date	12/19/2001
lab_id	WR4197-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	A
1,2-DICHLOROETHANE	2	J	P
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	9		
2-HEXANONE	2	J	P
4-METHYL-2-PENTANONE	3	J	P
ACETONE	84	U	A
BENZENE	29		
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	1	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	J	P
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	340		

nsample	JAX47-SB06-G-28-121901
samp_date	12/19/2001
lab_id	WR4197-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	350		
ISOPROPYLBENZENE	26		
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	3	J	P
TOLUENE	110		
TOTAL XYLENES	4000		
TRANS-1,2-DICHLOROETHENE	0.5	J	P
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	2	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	4	J	P

nsample	JAX47-SB13-G-20-121801
samp_date	12/18/2001
lab_id	WR4187-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	1	J	P
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	6	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB13-G-20-121801
samp_date	12/18/2001
lab_id	WR4187-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	1	J	P
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB29-G-8-121901
samp_date	12/19/2001
lab_id	WR4197-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-SB29-G-8-121901
samp_date	12/19/2001
lab_id	WR4197-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB30-G-8-121901
samp_date	12/19/2001
lab_id	WR4197-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-SB30-G-8-121901
samp_date	12/19/2001
lab_id	WR4197-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB43-G-20-121801
samp_date	12/18/2001
lab_id	WR4187-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB43-G-20-121801
samp_date	12/18/2001
lab_id	WR4187-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	A
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB43-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	2	J	P
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	3	J	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	9		
2-BUTANONE	5		
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	13	U	A
BENZENE	7		
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	42		
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	2	J	P
CHLOROMETHANE	0.9	J	P
CIS-1,2-DICHLOROETHENE	19		

nsample	JAX47-SB43-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	120		
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	100		
ISOPROPYLBENZENE	18		
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	46		
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	0.4	J	P
TOLUENE	1	J	P
TOTAL XYLENES	63		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	86		
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB45-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	9	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-SB45-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB47-G-20-121801
samp_date	12/18/2001
lab_id	WR4187-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	6	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB47-G-20-121801
samp_date	12/18/2001
lab_id	WR4187-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB47-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	A
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	0.8	J	P
1,4-DICHLOROBENZENE	4	J	P
2-BUTANONE	10		
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	25	U	A
BENZENE	3	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	0.7	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	22		
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	0.6	J	P

nsample	JAX47-SB47-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	110		
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	110		
ISOPROPYLBENZENE	26		
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	72		
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	1	J	P
TOTAL XYLENES	65		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB48-G-20-121801
samp_date	12/18/2001
lab_id	WR4187-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	8	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	0.8	J	P
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-SB48-G-20-121801
samp_date	12/18/2001
lab_id	WR4187-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB48-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	9	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	A
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	0.4	J	P
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	4	J	P
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	14	U	A
BENZENE	0.7	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	11		
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB48-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	13	NX	
ISOPROPYLBENZENE	3	J	P
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	J	P
TETRACHLOROETHENE	5	U	
TOLUENE	0.8	J	P
TOTAL XYLENES	23		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB57-G-08-121901
samp_date	12/19/2001
lab_id	WR4197-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	6		
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	230		

nsample	JAX47-SB57-G-08-121901
samp_date	12/19/2001
lab_id	WR4197-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	60		
ISOPROPYLBENZENE	4	J	P
METHYL ACETATE	5		
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	1	J	P
TOLUENE	2	J	P
TOTAL XYLENES	9		
TRANS-1,2-DICHLOROETHENE	4	J	P
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	4	J	P

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB57-G-20-121901
samp_date	12/19/2001
lab_id	WR4197-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5		
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	73		

nsample	JAX47-SB57-G-20-121901
samp_date	12/19/2001-
lab_id	WR4197-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	3	J	P
METHYL ACETATE	5		
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	3	J	P
TOLUENE	0.4	J	P
TOTAL XYLENES	3	J	P
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	13		
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB57-G-36-121901
samp_date	12/19/2001
lab_id	WR4197-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB57-G-36-121901
samp_date	12/19/2001
lab_id	WR4197-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	TB121801
samp_date	12/18/2001
lab_id	WR4187-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	1	J	P
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	3	J	P
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	8		
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	TB121801
samp_date	12/18/2001
lab_id	WR4187-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	0.3	J	P
METHYLENE CHLORIDE	2	J	P
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: OV

nsample	TRIP BLANK-121901
samp_date	12/19/2001
lab_id	WR4197-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	13		
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	15		
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	TRIP BLANK-121901
samp_date	12/19/2001
lab_id	WR4197-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	0.8	J	P
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	0.4	J	P
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: PEST/

nsample	JAX47-SB38-G-36-121801
samp_date	12/18/2001
lab_id	WR4197-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.19		
4,4'-DDE	0.023	J	U
4,4'-DDT	0.10	J	P
ALDRIN	0.051	U	
ALPHA-BHC	0.051	U	
ALPHA-CHLORDANE	0.051	U	
BETA-BHC	0.051	U	
DELTA-BHC	0.051	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.051	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.051	U	
GAMMA-CHLORDANE	0.051	U	
HEPTACHLOR	0.051	U	
HEPTACHLOR EPOXIDE	0.051	U	
METHOXYCHLOR	0.51	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB48-G-8-121801
samp_date	12/18/2001
lab_id	WR4187-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.16		
4,4'-DDE	0.10	U	
4,4'-DDT	0.18		
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB57-G-08-121901
samp_date	12/19/2001
lab_id	WR4197-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	7.4		
4,4'-DDE	0.95	U	
4,4'-DDT	0.39	J	P
ALDRIN	0.48	U	
ALPHA-BHC	0.48	U	
ALPHA-CHLORDANE	0.48	U	
BETA-BHC	0.48	U	
DELTA-BHC	0.48	U	
DIELDRIN	0.95	U	
ENDOSULFAN I	0.48	U	
ENDOSULFAN II	0.95	U	
ENDOSULFAN SULFATE	0.95	U	
ENDRIN	0.95	U	
ENDRIN ALDEHYDE	0.95	U	
ENDRIN KETONE	0.95	U	
GAMMA-BHC (LINDANE)	0.48	U	
GAMMA-CHLORDANE	0.48	U	
HEPTACHLOR	0.48	U	
HEPTACHLOR EPOXIDE	0.48	U	
METHOXYCHLOR	0.16	J	P
TOXAPHENE	9.5	U	

PROJ_NO: 3966

SDG: CTO162-1 MEDIA: WATER DATA FRACTION: PEST/

nsample	JAX47-SB57-G-20-121901
samp_date	12/19/2001
lab_id	WR4197-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	3.6		
4,4'-DDE	0.48	U	
4,4'-DDT	0.30	J	P
ALDRIN	0.24	U	
ALPHA-BHC	0.12	J	U
ALPHA-CHLORDANE	0.24	U	
BETA-BHC	0.24	U	
DELTA-BHC	0.16	J	P
DIELDRIN	0.48	U	
ENDOSULFAN I	0.24	U	
ENDOSULFAN II	0.48	U	
ENDOSULFAN SULFATE	0.48	U	
ENDRIN	0.48	U	
ENDRIN ALDEHYDE	0.48	U	
ENDRIN KETONE	0.48	U	
GAMMA-BHC (LINDANE)	0.24	U	
GAMMA-CHLORDANE	0.24	U	
HEPTACHLOR	0.24	U	
HEPTACHLOR EPOXIDE	0.24	U	
METHOXYCHLOR	2.4	U	
TOXAPHENE	4.8	U	

nsample	JAX47-SB57-G-36-121901
samp_date	12/19/2001
lab_id	WR4197-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	2.2		
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.025	J	U
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.034	J	U
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **G. ROOF** **DATE:** **JUNE 25, 2002**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PEST**
CTO 162, NAS JACKSONVILLE
SDG WR4224

SAMPLES: 18/Aqueous

*JAX47-SB37-G-8-122001	*JAX47-SB46-G-08-122001	*JAX47-SB46-G-20-122001
JAX47-TRIPBLANK-122001	JAX47-SB36-G-08-122001	JAX47-SB36-G-20-122001
JAX47-SB36-G-36-122001	JAX47-SB37-G-36-122001	JAX47-SB49-G-8-122001
JAX47-SB55-G-15-122001	JAX47-SB58-G-20-122001	JAX47-SB58-G-8-122001
JAX47-SB59-G-08-122001	JAX47-SB59-G-20-122001	JAX47-SB59-G-37-122001
*JAX47-SB60-G-08-122001	JAX47-SB61-G-15-122001	JAX47-SB68-G-37-122001

5

OVERVIEW

The sample set for CTO 162, NAS Jacksonville, SDG WR4224 consists of, one (1) trip blank, and seventeen (17) aqueous environmental samples. The samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) and pesticides (PEST). The trip blank was analyzed for VOAs only. The (*) indicates that the sample was analyzed for VOA.

The samples were collected by TetraTech NUS on December 20, 2001 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B and 8081A analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial/continuing calibrations
• Laboratory method and trip blank results
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Volatile

The following compounds were detected in the method blanks:

Compound	Maximum Concentration	Blank Action Level
Acetone	8 ug/L	80 ug/L
Methylene Chloride	1 ug/L	10.0 µg/L
1,4-Dichlorobenzene	0.6 ug/L	3.0 ug/L

1,2,4-trichlorobenzene	3 ug/L	15 ug/L

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for methylene chloride, acetone, and 1,2,4-trichlorobenzene below the blank action level were qualified as non-detected, U. Field quality control blanks were not qualified based on laboratory method blank contamination.

Sample JAX47-SB37-G-08-122001 required a dilution due to high concentrations of VOAs.

Pesticide

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for several compounds in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	% Difference	Qualification
JAX47-SB36-G-20-122001	4,4'-DDT	29%	J
JAX47-SB37-G-36-122001	4,4'-DDT	29%	J
JAX47-SB59-G-20-122001	Endrin ketone	40%	J
JAX47-SB49-G-8-122001	4,4'-DDT	30%	J
JAX47-SB58-G-20-122001	4,4'-DDD	26%	J
	4,4'-DDT	48%	J
JAX47-SB58-G-8-122001	Heptachlor	35%	J
	4,4'-DDT	37%	J
JAX47-SB37-G-8-122001	beta-BHC	37%	J
	4,4'-DDT	35%	J
	Methoxychlor	39%	J

Sample JAX47-SB36-G-08-122001 required a dilution due to high concentrations of pesticides.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated, J, due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several compounds exceeded the continuing calibration %D criteria. Several target compounds were detected in the method blanks.

Other factors affecting data quality: Percent difference between columns exceeded criteria for several compounds.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data

Validation (10/99) and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB37-G-8-122001
samp_date	12/20/2001
lab_id	WR4224-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	3	J	P
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	12	U	A
BENZENE	3	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	2	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	0.5	J	P
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	390		

nsample	JAX47-SB37-G-8-122001
samp_date	12/20/2001
lab_id	WR4224-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	J	P
ISOPROPYLBENZENE	4	J	P
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	6		
TOLUENE	5	U	
TOTAL XYLENES	4	J	P
TRANS-1,2-DICHLOROETHENE	2	J	P
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	3	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	2	J	P

nsample	JAX47-SB46-G-08-122001
samp_date	12/20/2001
lab_id	WR4224-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	10	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	0.4	J	P
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB46-G-08-122001
samp_date	12/20/2001
lab_id	WR4224-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	1	J	P
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-SB46-G-20-12201
samp_date	12/20/2001
lab_id	WR4224-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	14	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-SB46-G-20-12201
samp_date	12/20/2001
lab_id	WR4224-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	1	J	P
METHYL TERT-BUTYL ETHER	0.2	J	P
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-SB60-G-08-122001
samp_date	12/20/2001
lab_id	WR4224-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	13	U	A
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	0.3	J	P

nsample	JAX47-SB60-G-08-122001
samp_date	12/20/2001
lab_id	WR4224-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-TRIPBLANK-122001
samp_date	12/20/2001
lab_id	WR4224-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	16		
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	23		
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-TRIPBLANK-122001
samp_date	12/20/2001
lab_id	WR4224-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB36-G-08-122001
samp_date	12/20/2001
lab_id	WR4224-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	1.0	U	
4,4'-DDE	1.0	U	
4,4'-DDT	0.28	J	P
ALDRIN	0.50	U	
ALPHA-BHC	4.0		
ALPHA-CHLORDANE	0.50	U	
BETA-BHC	3.5		
DELTA-BHC	8.1		
DIELDRIN	1.0	U	
ENDOSULFAN I	0.50	U	
ENDOSULFAN II	1.0	U	
ENDOSULFAN SULFATE	1.0	U	
ENDRIN	1.0	U	
ENDRIN ALDEHYDE	1.0	U	
ENDRIN KETONE	1.0	U	
GAMMA-BHC (LINDANE)	5.6		
GAMMA-CHLORDANE	0.50	U	
HEPTACHLOR	0.50	U	
HEPTACHLOR EPOXIDE	0.50	U	
METHOXYCHLOR	5.0	U	
TOXAPHENE	10	U	

nsample	JAX47-SB36-G-20-122001
samp_date	12/20/2001
lab_id	WR4224-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.61		
4,4'-DDE	0.10	U	
4,4'-DDT	0.041	J	PU
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.019	J	P
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB36-G-36-122001
samp_date	12/20/2001
lab_id	WR4224-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.16		
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.023	J	P
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB37-G-36-122001
samp_date	12/20/2001
lab_id	WR4224-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.11	J	P
4,4'-DDE	0.10	U	
4,4'-DDT	0.025	J	PU
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.016	J	P
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB37-G-8-122001
samp_date	12/20/2001
lab_id	WR4224-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.30		
4,4'-DDE	0.10	U	
4,4'-DDT	0.095	J	PU
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.19	J	U
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.20	J	PU
TOXAPHENE	1.0	U	

nsample	JAX47-SB49-G-8-122001
samp_date	12/20/2001
lab_id	WR4224-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.15		
4,4'-DDE	0.10	U	
4,4'-DDT	0.030	J	PU
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB55-G-15-122001
samp_date	12/20/2001
lab_id	WR4224-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.37		
4,4'-DDE	0.10	U	
4,4'-DDT	0.056	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.026	J	P
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB58-G-20-122001
samp_date	12/20/2001
lab_id	WR4224-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.037	J	PU
4,4'-DDE	0.10	U	
4,4'-DDT	0.034	J	PU
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.074		
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB58-G-8-122001
samp_date	12/20/2001
lab_id	WR4224-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.20		
4,4'-DDE	0.050	J	P
4,4'-DDT	0.090	J	PU
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.046	J	PU
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB59-G-08-122001
samp_date	12/20/2001
lab_id	WR4224-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB59-G-20-122001
samp_date	12/20/2001
lab_id	WR4224-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.021	J	PU
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX47-SB59-G-37-122001
samp_date	12/20/2001
lab_id	WR4224-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: WR4224 MEDIA: WATER DATA FRACTION: PEST/P

nsample	JAX47-SB60-G-08-122001	nsample	JAX47-SB61-G-15-122001	nsample	JAX47-SB68-G-37-122001
samp_date	12/20/2001	samp_date	12/20/2001	samp_date	12/20/2001
lab_id	WR4224-15	lab_id	WR4224-13	lab_id	WR4224-9
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0	Pct_Solids	0	Pct_Solids	0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.12		
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.16		
4,4'-DDE	0.10	U	
4,4'-DDT	0.034	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.013	J	P
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.044	J	P
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **G. ROOF** **DATE:** **JUNE 4, 2003**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE REV 1**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/SVOC/PEST/PCB/OPPEST**
CTO 162, NAS JACKSONVILLE
SDG 162-2

SAMPLES: 13/Soil

JAX-47-SB01-S-00-121901*&	JAX-47-SB10-S-02-121901*&	JAX-47-SB17-S-00-121901*&
JAX-47-SB25-S-00-122001*	JAX-47-SB25-S-01-122001	JAX-47-SB32-S-47-121901&
JAX-47-SB40-S-00-122001	JAX-47-SB41-S-00-121801	JAX-47-SB42-S-00-122001
JAX-47-SB44-S-00-122001	JAX-47-SB50-S-00-121801	JAX-47-SB51-S-00-121801
JAX-47-SB56-S-00-121801		

OVERVIEW

The sample set for CTO 162, NAS Jacksonville, SDG 162-2 consists of thirteen (13) environmental soil samples. All environmental samples were analyzed for pesticides (PEST) by SW-846 Method 8081A. The samples denoted with an asterisk (*) were also analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC) and polychlorinated biphenyls (PCB) by SW-846 Methods 8260B, 8270C and 8082. The samples denoted with an ampersand (&) were analyzed for organophosphorus pesticides (OPPEST) by SW-846 Method 8141A.

The samples were collected by TetraTech NUS on December 18, 19, and 20, 2001 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, 8081A, 8082, and 8141A analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
	• Holding times
*	• Initial and continuing calibration
*	• Laboratory method and field quality control blank results
*	• Field duplicate precision
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Volatile

Positive results below the reporting limit and the method detection limit were qualified as estimated (J).

Semivolatile

Positive results below the reporting limit and the method detection limit were qualified as estimated (J).

Pesticide

Sample JAX-47-SB01-S-00-121901 was extracted eight days outside of holding time. All results for the sample were qualified as estimated.

PCB

No qualifiers were assigned to this fraction.

OPPEST

Sample JAX47-SB25-S-00-122001 was not shipped to the subcontract laboratory for OPPEST analysis. This accounts for the absence of this sample from the OPPEST fraction in the database. The primary laboratory performed a library search for OPPEST compounds in the SVOC fraction of this sample. No OPPEST compounds were identified during the library search.

The remaining OPPEST samples were not analyzed for the complete Method 8141A list of OPPEST compounds. They were analyzed for disulfoton, ethyl parathion, famphur, methyl parathion, and phorate only.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on holding time non-compliance.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Bernard F. Spada III

Tetra Tech NUS
Bernard F. Spada III
Chemist/Data Validator

Edward Sedlazeck

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OV

nsample	JAX47-SB01-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-1
qc_type	NM
units	UG/KG
Pct_Solids	33
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	22	U	
1,1,2,2-TETRACHLOROETHANE	22	U	
1,1,2-TRICHLOROETHANE	22	U	
1,1,2-TRICHLOROTRIFLUOROE	22	U	
1,1-DICHLOROETHANE	22	U	
1,1-DICHLOROETHENE	22	U	
1,2,4-TRICHLOROBENZENE	22	U	
1,2-DIBROMO-3-CHLOROPROP	22	U	
1,2-DIBROMOETHANE	22	U	
1,2-DICHLOROBENZENE	22	U	
1,2-DICHLOROETHANE	22	U	
1,2-DICHLOROPROPANE	22	U	
1,3-DICHLOROBENZENE	22	U	
1,4-DICHLOROBENZENE	22	U	
2-BUTANONE	77		
2-HEXANONE	22	U	
4-METHYL-2-PENTANONE	22	U	
ACETONE	22	U	
BENZENE	22	U	
BROMODICHLOROMETHANE	22	U	
BROMOFORM	22	U	
BROMOMETHANE	22	U	
CARBON DISULFIDE	22	U	
CARBON TETRACHLORIDE	22	U	
CHLOROBENZENE	22	U	
CHLORODIBROMOMETHANE	22	U	
CHLOROETHANE	22	U	
CHLOROFORM	22	U	
CHLOROMETHANE	22	U	
CIS-1,2-DICHLOROETHENE	22	U	

nsample	JAX47-SB01-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-1
qc_type	NM
units	UG/KG
Pct_Solids	33
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	22	U	
CYCLOHEXANE	22	U	
DICHLORODIFLUOROMETHAN	22	U	
ETHYLBENZENE	22	U	
ISOPROPYLBENZENE	22	U	
METHYL ACETATE	22	U	
METHYL CYCLOHEXANE	22	U	
METHYL TERT-BUTYL ETHER	22	U	
METHYLENE CHLORIDE	20	J	P
STYRENE	22	U	
TETRACHLOROETHENE	22	U	
TOLUENE	22	U	
TOTAL XYLENES	22	U	
TRANS-1,2-DICHLOROETHENE	22	U	
TRANS-1,3-DICHLOROPROPEN	22	U	
TRICHLOROETHENE	22	U	
TRICHLOROFLUOROMETHANE	22	U	
VINYL CHLORIDE	22	U	

nsample	JAX47-SB10-S-02-121901
samp_date	12/19/2001
lab_id	WR4205-2
qc_type	NM
units	UG/KG
Pct_Solids	66
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	8	U	
1,1,2,2-TETRACHLOROETHANE	8	U	
1,1,2-TRICHLOROETHANE	8	U	
1,1,2-TRICHLOROTRIFLUOROE	8	U	
1,1-DICHLOROETHANE	8	U	
1,1-DICHLOROETHENE	8	U	
1,2,4-TRICHLOROBENZENE	8	U	
1,2-DIBROMO-3-CHLOROPROP	8	U	
1,2-DIBROMOETHANE	8	U	
1,2-DICHLOROBENZENE	8	U	
1,2-DICHLOROETHANE	8	U	
1,2-DICHLOROPROPANE	8	U	
1,3-DICHLOROBENZENE	8	U	
1,4-DICHLOROBENZENE	8	U	
2-BUTANONE	43		
2-HEXANONE	8	U	
4-METHYL-2-PENTANONE	8	U	
ACETONE	43		
BENZENE	8	U	
BROMODICHLOROMETHANE	8	U	
BROMOFORM	8	U	
BROMOMETHANE	8	U	
CARBON DISULFIDE	8	U	
CARBON TETRACHLORIDE	8	U	
CHLOROBENZENE	8	U	
CHLORODIBROMOMETHANE	8	U	
CHLOROETHANE	8	U	
CHLOROFORM	8	U	
CHLOROMETHANE	8	U	
CIS-1,2-DICHLOROETHENE	8	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OV

nsample	JAX47-SB10-S-02-121901
samp_date	12/19/2001
lab_id	WR4205-2
qc_type	NM
units	UG/KG
Pct_Solids	66
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	8	U	
CYCLOHEXANE	8	U	
DICHLORODIFLUOROMETHAN	8	U	
ETHYLBENZENE	8	U	
ISOPROPYLBENZENE	8	U	
METHYL ACETATE	8	U	
METHYL CYCLOHEXANE	8	U	
METHYL TERT-BUTYL ETHER	8	U	
METHYLENE CHLORIDE	8		
STYRENE	8	U	
TETRACHLOROETHENE	8	U	
TOLUENE	6	J	P
TOTAL XYLENES	8	U	
TRANS-1,2-DICHLOROETHENE	8	U	
TRANS-1,3-DICHLOROPROPEN	8	U	
TRICHLOROETHENE	8	U	
TRICHLOROFLUOROMETHANE	8	U	
VINYL CHLORIDE	8	U	

nsample	JAX47-SB17-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-3
qc_type	NM
units	UG/KG
Pct_Solids	75
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	7	U	
1,1,2,2-TETRACHLOROETHANE	7	U	
1,1,2-TRICHLOROETHANE	7	U	
1,1,2-TRICHLOROTRIFLUOROE	7	U	
1,1-DICHLOROETHANE	7	U	
1,1-DICHLOROETHENE	7	U	
1,2,4-TRICHLOROBENZENE	7	U	
1,2-DIBROMO-3-CHLOROPROP	7	U	
1,2-DIBROMOETHANE	7	U	
1,2-DICHLOROBENZENE	7	U	
1,2-DICHLOROETHANE	7	U	
1,2-DICHLOROPROPANE	7	U	
1,3-DICHLOROBENZENE	7	U	
1,4-DICHLOROBENZENE	7	U	
2-BUTANONE	12		
2-HEXANONE	7	U	
4-METHYL-2-PENTANONE	7	U	
ACETONE	7	U	
BENZENE	7	U	
BROMODICHLOROMETHANE	7	U	
BROMOFORM	7	U	
BROMOMETHANE	7	U	
CARBON DISULFIDE	7	U	
CARBON TETRACHLORIDE	7	U	
CHLOROBENZENE	7	U	
CHLORODIBROMOMETHANE	7	U	
CHLOROETHANE	7	U	
CHLOROFORM	7	U	
CHLOROMETHANE	7	U	
CIS-1,2-DICHLOROETHENE	7	U	

nsample	JAX47-SB17-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-3
qc_type	NM
units	UG/KG
Pct_Solids	75
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	7	U	
CYCLOHEXANE	7	U	
DICHLORODIFLUOROMETHAN	7	U	
ETHYLBENZENE	7	U	
ISOPROPYLBENZENE	7	U	
METHYL ACETATE	7	U	
METHYL CYCLOHEXANE	7	U	
METHYL TERT-BUTYL ETHER	7	U	
METHYLENE CHLORIDE	6	J	P
STYRENE	7	U	
TETRACHLOROETHENE	7	U	
TOLUENE	7	U	
TOTAL XYLENES	7	U	
TRANS-1,2-DICHLOROETHENE	7	U	
TRANS-1,3-DICHLOROPROPEN	7	U	
TRICHLOROETHENE	7	U	
TRICHLOROFLUOROMETHANE	7	U	
VINYL CHLORIDE	7	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OV

nsample	JAX47-SB25-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-4
qc_type	NM
units	UG/KG
Pct_Solids	94
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	6	U	
1,1,2,2-TETRACHLOROETHANE	6	U	
1,1,2-TRICHLOROETHANE	6	U	
1,1,2-TRICHLOROTRIFLUOROE	6	U	
1,1-DICHLOROETHANE	6	U	
1,1-DICHLOROETHENE	6	U	
1,2,4-TRICHLOROBENZENE	6	U	
1,2-DIBROMO-3-CHLOROPROP	6	U	
1,2-DIBROMOETHANE	6	U	
1,2-DICHLOROBENZENE	6	U	
1,2-DICHLOROETHANE	6	U	
1,2-DICHLOROPROPANE	6	U	
1,3-DICHLOROBENZENE	6	U	
1,4-DICHLOROBENZENE	6	U	
2-BUTANONE	14		
2-HEXANONE	6	U	
4-METHYL-2-PENTANONE	6	U	
ACETONE	6	U	
BENZENE	6	U	
BROMODICHLOROMETHANE	6	U	
BROMOFORM	6	U	
BROMOMETHANE	6	U	
CARBON DISULFIDE	6	U	
CARBON TETRACHLORIDE	6	U	
CHLOROBENZENE	6	U	
CHLORODIBROMOMETHANE	6	U	
CHLOROETHANE	6	U	
CHLOROFORM	6	U	
CHLOROMETHANE	6	U	
CIS-1,2-DICHLOROETHENE	6	U	

nsample	JAX47-SB25-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-4
qc_type	NM
units	UG/KG
Pct_Solids	94
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	6	U	
CYCLOHEXANE	6	U	
DICHLORODIFLUOROMETHAN	6	U	
ETHYLBENZENE	6	U	
ISOPROPYLBENZENE	6	U	
METHYL ACETATE	6	U	
METHYL CYCLOHEXANE	6	U	
METHYL TERT-BUTYL ETHER	6	U	
METHYLENE CHLORIDE	6		
STYRENE	6	U	
TETRACHLOROETHENE	6	U	
TOLUENE	6	U	
TOTAL XYLENES	6	U	
TRANS-1,2-DICHLOROETHENE	6	U	
TRANS-1,3-DICHLOROPROPEN	6	U	
TRICHLOROETHENE	6	U	
TRICHLOROFLUOROMETHANE	6	U	
VINYL CHLORIDE	6	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OS

nsample	JAX47-SB01-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-1
qc_type	NM
units	UG/KG
Pct_Solids	33
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	990	U	
2,2'-OXYBIS(1-CHLOROPROPA	990	U	
2,4,5-TRICHLOROPHENOL	2500	U	
2,4,6-TRICHLOROPHENOL	990	U	
2,4-DICHLOROPHENOL	990	U	
2,4-DIMETHYLPHENOL	990	U	
2,4-DINITROPHENOL	2500	U	
2,4-DINITROTOLUENE	990	U	
2,6-DINITROTOLUENE	990	U	
2-CHLORONAPHTHALENE	990	U	
2-CHLOROPHENOL	990	U	
2-METHYLNAPHTHALENE	990	U	
2-METHYLPHENOL	990	U	
2-NITROANILINE	2500	U	
2-NITROPHENOL	990	U	
3,3'-DICHLOROBENZIDINE	990	U	
3-NITROANILINE	2500	U	
4,6-DINITRO-2-METHYLPHENO	2500	U	
4-BROMOPHENYL PHENYL ET	990	U	
4-CHLORO-3-METHYLPHENOL	990	U	
4-CHLOROANILINE	990	U	
4-CHLOROPHENYL PHENYL ET	990	U	
4-METHYLPHENOL	990	U	
4-NITROANILINE	2500	U	
4-NITROPHENOL	2500	U	
ACENAPHTHENE	990	U	
ACENAPHTHYLENE	990	U	
ACETOPHENONE	990	U	
ANTHRACENE	990	U	
ATRAZINE	990	U	

nsample	JAX47-SB01-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-1
qc_type	NM
units	UG/KG
Pct_Solids	33
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	990	U	
BENZO(A)ANTHRACENE	230	J	P
BENZO(A)PYRENE	380	J	P
BENZO(B)FLUORANTHENE	560	J	P
BENZO(G,H,I)PERYLENE	420	J	P
BENZO(K)FLUORANTHENE	410	J	P
BIS(2-CHLOROETHOXY)METHA	990	U	
BIS(2-CHLOROETHYL)ETHER	990	U	
BIS(2-ETHYLHEXYL)PHTHALAT	1400		
BUTYL BENZYL PHTHALATE	360	J	P
CAPROLACTAM	990	U	
CARBAZOLE	990	U	
CHRYSENE	480	J	P
DI-N-BUTYL PHTHALATE	990	U	
DI-N-OCTYL PHTHALATE	990	U	
DIBENZO(A,H)ANTHRACENE	140	J	P
DIBENZOFURAN	990	U	
DIETHYL PHTHALATE	990	U	
DIMETHYL PHTHALATE	340	J	P
FLUORANTHENE	530	J	P
FLUORENE	990	U	
HEXACHLOROBENZENE	990	U	
HEXACHLOROBUTADIENE	990	U	
HEXACHLOROCYCLOPENTADI	990	U	
HEXACHLOROETHANE	990	U	
INDENO(1,2,3-CD)PYRENE	400	J	P
ISOPHORONE	990	U	
N-NITROSO-DI-N-PROPYLAMIN	990	U	
N-NITROSODIPHENYLAMINE	990	U	
NAPHTHALENE	990	U	

nsample	JAX47-SB01-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-1
qc_type	NM
units	UG/KG
Pct_Solids	33
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	990	U	
PENTACHLOROPHENOL	2500	U	
PHENANTHRENE	160	J	P
PHENOL	990	U	
PYRENE	520	J	P

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OS

nsample	JAX47-SB10-S-02-121901
samp_date	12/19/2001
lab_id	WR4205-2
qc_type	NM
units	UG/KG
Pct_Solids	66
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	500	U	
2,2'-OXYBIS(1-CHLOROPROPA	500	U	
2,4,5-TRICHLOROPHENOL	1200	U	
2,4,6-TRICHLOROPHENOL	500	U	
2,4-DICHLOROPHENOL	500	U	
2,4-DIMETHYLPHENOL	500	U	
2,4-DINITROPHENOL	1200	U	
2,4-DINITROTOLUENE	500	U	
2,6-DINITROTOLUENE	500	U	
2-CHLORONAPHTHALENE	500	U	
2-CHLOROPHENOL	500	U	
2-METHYLNAPHTHALENE	500	U	
2-METHYLPHENOL	500	U	
2-NITROANILINE	1200	U	
2-NITROPHENOL	500	U	
3,3'-DICHLOROBENZIDINE	500	U	
3-NITROANILINE	1200	U	
4,6-DINITRO-2-METHYLPHENO	1200	U	
4-BROMOPHENYL PHENYL ET	500	U	
4-CHLORO-3-METHYLPHENOL	500	U	
4-CHLOROANILINE	500	U	
4-CHLOROPHENYL PHENYL ET	500	U	
4-METHYLPHENOL	500	U	
4-NITROANILINE	1200	U	
4-NITROPHENOL	1200	U	
ACENAPHTHENE	500	U	
ACENAPHTHYLENE	500	U	
ACETOPHENONE	500	U	
ANTHRACENE	500	U	
ATRAZINE	500	U	

nsample	JAX47-SB10-S-02-121901
samp_date	12/19/2001
lab_id	WR4205-2
qc_type	NM
units	UG/KG
Pct_Solids	66
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	500	U	
BENZO(A)ANTHRACENE	86	J	P
BENZO(A)PYRENE	120	J	P
BENZO(B)FLUORANTHENE	180	J	P
BENZO(G,H,I)PERYLENE	110	J	P
BENZO(K)FLUORANTHENE	120	J	P
BIS(2-CHLOROETHOXY)METHA	500	U	
BIS(2-CHLOROETHYL)ETHER	500	U	
BIS(2-ETHYLHEXYL)PHTHALAT	88	J	P
BUTYL BENZYL PHTHALATE	500	U	
CAPROLACTAM	500	U	
CARBAZOLE	500	U	
CHRYSENE	170	J	P
DI-N-BUTYL PHTHALATE	500	U	
DI-N-OCTYL PHTHALATE	500	U	
DIBENZO(A,H)ANTHRACENE	500	U	
DIBENZOFURAN	500	U	
DIETHYL PHTHALATE	500	U	
DIMETHYL PHTHALATE	500	U	
FLUORANTHENE	190	J	P
FLUORENE	500	U	
HEXACHLOROBENZENE	500	U	
HEXACHLOROBUTADIENE	500	U	
HEXACHLOROCYCLOPENTADI	500	U	
HEXACHLOROETHANE	500	U	
INDENO(1,2,3-CD)PYRENE	120	J	P
ISOPHORONE	500	U	
N-NITROSO-DI-N-PROPYLAMIN	500	U	
N-NITROSODIPHENYLAMINE	500	U	
NAPHTHALENE	500	U	

nsample	JAX47-SB10-S-02-121901
samp_date	12/19/2001
lab_id	WR4205-2
qc_type	NM
units	UG/KG
Pct_Solids	66
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	500	U	
PENTACHLOROPHENOL	1200	U	
PHENANTHRENE	49	J	P
PHENOL	500	U	
PYRENE	210	J	P

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OS

nsample	JAX47-SB17-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-3
qc_type	NM
units	UG/KG
Pct_Solids	75
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	430	U	
2,2'-OXYBIS(1-CHLOROPROPA	430	U	
2,4,5-TRICHLOROPHENOL	1100	U	
2,4,6-TRICHLOROPHENOL	430	U	
2,4-DICHLOROPHENOL	430	U	
2,4-DIMETHYLPHENOL	430	U	
2,4-DINITROPHENOL	1100	U	
2,4-DINITROTOLUENE	430	U	
2,6-DINITROTOLUENE	430	U	
2-CHLORONAPHTHALENE	430	U	
2-CHLOROPHENOL	430	U	
2-METHYLNAPHTHALENE	430	U	
2-METHYLPHENOL	430	U	
2-NITROANILINE	1100	U	
2-NITROPHENOL	430	U	
3,3'-DICHLOROBENZIDINE	430	U	
3-NITROANILINE	1100	U	
4,6-DINITRO-2-METHYLPHENO	1100	U	
4-BROMOPHENYL PHENYL ET	430	U	
4-CHLORO-3-METHYLPHENOL	430	U	
4-CHLOROANILINE	430	U	
4-CHLOROPHENYL PHENYL ET	430	U	
4-METHYLPHENOL	430	U	
4-NITROANILINE	1100	U	
4-NITROPHENOL	1100	U	
ACENAPHTHENE	430	U	
ACENAPHTHYLENE	430	U	
ACETOPHENONE	430	U	
ANTHRACENE	430	U	
ATRAZINE	430	U	

nsample	JAX47-SB17-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-3
qc_type	NM
units	UG/KG
Pct_Solids	75
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	430	U	
BENZO(A)ANTHRACENE	120	J	P
BENZO(A)PYRENE	130	J	P
BENZO(B)FLUORANTHENE	120	J	P
BENZO(G,H,I)PERYLENE	67	J	P
BENZO(K)FLUORANTHENE	140	J	P
BIS(2-CHLOROETHOXY)METHA	430	U	
BIS(2-CHLOROETHYL)ETHER	430	U	
BIS(2-ETHYLHEXYL)PHTHALAT	130	J	P
BUTYL BENZYL PHTHALATE	35	J	P
CAPROLACTAM	430	U	
CARBAZOLE	430	U	
CHRYSENE	150	J	P
DI-N-BUTYL PHTHALATE	430	U	
DI-N-OCTYL PHTHALATE	430	U	
DIBENZO(A,H)ANTHRACENE	28	J	P
DIBENZOFURAN	430	U	
DIETHYL PHTHALATE	430	U	
DIMETHYL PHTHALATE	430	U	
FLUORANTHENE	93	J	P
FLUORENE	430	U	
HEXACHLOROBENZENE	430	U	
HEXACHLOROBUTADIENE	430	U	
HEXACHLOROCYCLOPENTADI	430	U	
HEXACHLOROETHANE	430	U	
INDENO(1,2,3-CD)PYRENE	76	J	P
ISOPHORONE	430	U	
N-NITROSO-DI-N-PROPYLAMIN	430	U	
N-NITROSODIPHENYLAMINE	430	U	
NAPHTHALENE	430	U	

nsample	JAX47-SB17-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-3
qc_type	NM
units	UG/KG
Pct_Solids	75
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	430	U	
PENTACHLOROPHENOL	1100	U	
PHENANTHRENE	21	J	P
PHENOL	430	U	
PYRENE	120	J	P

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OS

nsample	JAX47-SB25-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-4
qc_type	NM
units	UG/KG
Pct_Solids	94
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	360	U	
2,2'-OXYBIS(1-CHLOROPROPA	360	U	
2,4,5-TRICHLOROPHENOL	910	U	
2,4,6-TRICHLOROPHENOL	360	U	
2,4-DICHLOROPHENOL	360	U	
2,4-DIMETHYLPHENOL	360	U	
2,4-DINITROPHENOL	910	U	
2,4-DINITROTOLUENE	360	U	
2,6-DINITROTOLUENE	360	U	
2-CHLORONAPHTHALENE	360	U	
2-CHLOROPHENOL	360	U	
2-METHYLNAPHTHALENE	360	U	
2-METHYLPHENOL	360	U	
2-NITROANILINE	910	U	
2-NITROPHENOL	360	U	
3,3'-DICHLOROBENZIDINE	360	U	
3-NITROANILINE	910	U	
4,6-DINITRO-2-METHYLPHENO	910	U	
4-BROMOPHENYL PHENYL ET	360	U	
4-CHLORO-3-METHYLPHENOL	360	U	
4-CHLOROANILINE	360	U	
4-CHLOROPHENYL PHENYL ET	360	U	
4-METHYLPHENOL	360	U	
4-NITROANILINE	910	U	
4-NITROPHENOL	910	U	
ACENAPHTHENE	360	U	
ACENAPHTHYLENE	360	U	
ACETOPHENONE	360	U	
ANTHRACENE	360	U	
ATRAZINE	360	U	

nsample	JAX47-SB25-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-4
qc_type	NM
units	UG/KG
Pct_Solids	94
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	360	U	
BENZO(A)ANTHRACENE	360	U	
BENZO(A)PYRENE	360	U	
BENZO(B)FLUORANTHENE	360	U	
BENZO(G,H,I)PERYLENE	360	U	
BENZO(K)FLUORANTHENE	360	U	
BIS(2-CHLOROETHOXY)METHA	360	U	
BIS(2-CHLOROETHYL)ETHER	360	U	
BIS(2-ETHYLHEXYL)PHTHALAT	360	U	
BUTYL BENZYL PHTHALATE	360	U	
CAPROLACTAM	360	U	
CARBAZOLE	360	U	
CHRYSENE	360	U	
DI-N-BUTYL PHTHALATE	360	U	
DI-N-OCTYL PHTHALATE	360	U	
DIBENZO(A,H)ANTHRACENE	360	U	
DIBENZOFURAN	360	U	
DIETHYL PHTHALATE	360	U	
DIMETHYL PHTHALATE	360	U	
FLUORANTHENE	360	U	
FLUORENE	360	U	
HEXACHLOROBENZENE	360	U	
HEXACHLOROBUTADIENE	360	U	
HEXACHLOROCYCLOPENTADI	360	U	
HEXACHLOROETHANE	360	U	
INDENO(1,2,3-CD)PYRENE	360	U	
ISOPHORONE	360	U	
N-NITROSO-DI-N-PROPYLAMIN	360	U	
N-NITROSODIPHENYLAMINE	360	U	
NAPHTHALENE	360	U	

nsample	JAX47-SB25-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-4
qc_type	NM
units	UG/KG
Pct_Solids	94
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	360	U	
PENTACHLOROPHENOL	910	U	
PHENANTHRENE	360	U	
PHENOL	360	U	
PYRENE	360	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: PEST/PC

nsample	JAX47-SB01-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-1
qc_type	NM
units	UG/KG
Pct_Solids	33
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	300	J	H
4,4'-DDE	190	J	H
4,4'-DDT	680	J	H
ALDRIN	51	UJ	H
ALPHA-BHC	51	UJ	H
ALPHA-CHLORDANE	110	J	H
AROCLOR-1016	51	UJ	H
AROCLOR-1221	51	UJ	H
AROCLOR-1232	51	UJ	H
AROCLOR-1242	51	UJ	H
AROCLOR-1248	51	UJ	H
AROCLOR-1254	51	UJ	H
AROCLOR-1260	51	UJ	H
BETA-BHC	51	UJ	H
DELTA-BHC	51	UJ	H
DIELDRIN	99	UJ	H
ENDOSULFAN I	51	UJ	H
ENDOSULFAN II	99	UJ	H
ENDOSULFAN SULFATE	99	UJ	H
ENDRIN	99	UJ	H
ENDRIN ALDEHYDE	99	UJ	H
ENDRIN KETONE	28	J	HP
GAMMA-BHC (LINDANE)	51	UJ	H
GAMMA-CHLORDANE	75	J	H
HEPTACHLOR	51	UJ	H
HEPTACHLOR EPOXIDE	51	UJ	H
METHOXYCHLOR	510	UJ	H
TOXAPHENE	990	UJ	H

nsample	JAX47-SB10-S-02-121901
samp_date	12/19/2001
lab_id	WR4205-2
qc_type	NM
units	UG/KG
Pct_Solids	66
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	620		
4,4'-DDE	560		
4,4'-DDT	1900		
ALDRIN	260	U	
ALPHA-BHC	260	U	
ALPHA-CHLORDANE	120	J	P
AROCLOR-1016	26	U	
AROCLOR-1221	26	U	
AROCLOR-1232	26	U	
AROCLOR-1242	26	U	
AROCLOR-1248	26	U	
AROCLOR-1254	26	U	
AROCLOR-1260	26	U	
BETA-BHC	260	U	
DELTA-BHC	260	U	
DIELDRIN	500	U	
ENDOSULFAN I	260	U	
ENDOSULFAN II	500	U	
ENDOSULFAN SULFATE	500	U	
ENDRIN	500	U	
ENDRIN ALDEHYDE	500	U	
ENDRIN KETONE	500	U	
GAMMA-BHC (LINDANE)	260	U	
GAMMA-CHLORDANE	260	U	
HEPTACHLOR	260	U	
HEPTACHLOR EPOXIDE	260	U	
METHOXYCHLOR	2600	U	
TOXAPHENE	5000	U	

nsample	JAX47-SB17-S-00-121901
samp_date	12/19/2001
lab_id	WR4205-3
qc_type	NM
units	UG/KG
Pct_Solids	75
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	11	J	P
4,4'-DDE	72		
4,4'-DDT	210		
ALDRIN	11	U	
ALPHA-BHC	11	U	
ALPHA-CHLORDANE	14		
AROCLOR-1016	23	U	
AROCLOR-1221	23	U	
AROCLOR-1232	23	U	
AROCLOR-1242	23	U	
AROCLOR-1248	23	U	
AROCLOR-1254	23	U	
AROCLOR-1260	23	U	
BETA-BHC	11	U	
DELTA-BHC	11	U	
DIELDRIN	6.4	J	P
ENDOSULFAN I	11	U	
ENDOSULFAN II	22	U	
ENDOSULFAN SULFATE	22	U	
ENDRIN	22	U	
ENDRIN ALDEHYDE	22	U	
ENDRIN KETONE	22	U	
GAMMA-BHC (LINDANE)	11	U	
GAMMA-CHLORDANE	11	U	
HEPTACHLOR	11	U	
HEPTACHLOR EPOXIDE	11	U	
METHOXYCHLOR	110	U	
TOXAPHENE	220	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: PEST/PC

nsample	JAX47-SB25-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-4
qc_type	NM
units	UG/KG
Pct_Solids	94
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	35	U	
4,4'-DDE	160		
4,4'-DDT	190		
ALDRIN	18	U	
ALPHA-BHC	18	U	
ALPHA-CHLORDANE	190		
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	18	U	
BETA-BHC	18	U	
DELTA-BHC	18	U	
DIELDRIN	27	J	P
ENDOSULFAN I	18	U	
ENDOSULFAN II	35	U	
ENDOSULFAN SULFATE	35	U	
ENDRIN	35	U	
ENDRIN ALDEHYDE	35	U	
ENDRIN KETONE	35	U	
GAMMA-BHC (LINDANE)	18	U	
GAMMA-CHLORDANE	160		
HEPTACHLOR	18	U	
HEPTACHLOR EPOXIDE	24		
METHOXYCHLOR	180	U	
TOXAPHENE	350	U	

nsample	JAX47-SB25-S-01-122001
samp_date	12/20/2001
lab_id	WR4227-2
qc_type	NM
units	UG/KG
Pct_Solids	91
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	3.6	U	
4,4'-DDE	44		
4,4'-DDT	67		
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	47		
BETA-BHC	1.9	U	
DELTA-BHC	1.9	U	
DIELDRIN	6.0		
ENDOSULFAN I	1.9	U	
ENDOSULFAN II	3.6	U	
ENDOSULFAN SULFATE	3.6	U	
ENDRIN	3.6	U	
ENDRIN ALDEHYDE	3.6	U	
ENDRIN KETONE	3.6	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	39		
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	6.7		
METHOXYCHLOR	19	U	
TOXAPHENE	36	U	

nsample	JAX47-SB32-S-47-121901
samp_date	12/19/2001
lab_id	WR4205-4
qc_type	NM
units	UG/KG
Pct_Solids	77
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	3.5	J	P
4,4'-DDE	4.3	U	
4,4'-DDT	4.3	U	
ALDRIN	2.2	U	
ALPHA-BHC	2.2	U	
ALPHA-CHLORDANE	2.2	U	
BETA-BHC	2.2	U	
DELTA-BHC	2.2	U	
DIELDRIN	4.3	U	
ENDOSULFAN I	2.2	U	
ENDOSULFAN II	4.3	U	
ENDOSULFAN SULFATE	4.3	U	
ENDRIN	4.3	U	
ENDRIN ALDEHYDE	4.3	U	
ENDRIN KETONE	4.3	U	
GAMMA-BHC (LINDANE)	2.2	U	
GAMMA-CHLORDANE	2.2	U	
HEPTACHLOR	2.2	U	
HEPTACHLOR EPOXIDE	2.2	U	
METHOXYCHLOR	22	U	
TOXAPHENE	43	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: PEST/PC

nsample	JAX47-SB40-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-1
qc_type	NM
units	UG/KG
Pct_Solids	75
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	4.6		
4,4'-DDE	46		
4,4'-DDT	46		
ALDRIN	2.2	U	
ALPHA-BHC	2.2	U	
ALPHA-CHLORDANE	2.1	J	P
BETA-BHC	2.2	U	
DELTA-BHC	2.2	U	
DIELDRIN	4.4	U	
ENDOSULFAN I	2.2	U	
ENDOSULFAN II	4.4	U	
ENDOSULFAN SULFATE	4.4	U	
ENDRIN	4.4	U	
ENDRIN ALDEHYDE	4.4	U	
ENDRIN KETONE	4.4	U	
GAMMA-BHC (LINDANE)	2.2	U	
GAMMA-CHLORDANE	2.8		
HEPTACHLOR	2.2	U	
HEPTACHLOR EPOXIDE	2.2	U	
METHOXYCHLOR	22	U	
TOXAPHENE	44	U	

nsample	JAX47-SB41-S-00-121801
samp_date	12/18/2001
lab_id	WR4189-4
qc_type	NM
units	UG/KG
Pct_Solids	86
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	3.8	U	
4,4'-DDE	39		
4,4'-DDT	34		
ALDRIN	2.0	U	
ALPHA-BHC	2.0	U	
ALPHA-CHLORDANE	5.2		
BETA-BHC	2.0	U	
DELTA-BHC	2.0	U	
DIELDRIN	1.9	J	P
ENDOSULFAN I	2.0	U	
ENDOSULFAN II	3.8	U	
ENDOSULFAN SULFATE	3.8	U	
ENDRIN	3.8	U	
ENDRIN ALDEHYDE	1.8	J	P
ENDRIN KETONE	3.8	U	
GAMMA-BHC (LINDANE)	2.0	U	
GAMMA-CHLORDANE	5.6		
HEPTACHLOR	2.0	U	
HEPTACHLOR EPOXIDE	0.82	J	P
METHOXYCHLOR	20	U	
TOXAPHENE	38	U	

nsample	JAX47-SB42-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-3
qc_type	NM
units	UG/KG
Pct_Solids	81
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	760	J	P
4,4'-DDE	13000		
4,4'-DDT	7500		
ALDRIN	1000	U	
ALPHA-BHC	1000	U	
ALPHA-CHLORDANE	2700		
BETA-BHC	1000	U	
DELTA-BHC	1000	U	
DIELDRIN	2000	U	
ENDOSULFAN I	1000	U	
ENDOSULFAN II	2000	U	
ENDOSULFAN SULFATE	2000	U	
ENDRIN	2000	U	
ENDRIN ALDEHYDE	2000	U	
ENDRIN KETONE	2000	U	
GAMMA-BHC (LINDANE)	1000	U	
GAMMA-CHLORDANE	2300		
HEPTACHLOR	430	J	P
HEPTACHLOR EPOXIDE	1000	U	
METHOXYCHLOR	10000	U	
TOXAPHENE	20000	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: PEST/PC

nsample	JAX47-SB44-S-00-122001
samp_date	12/20/2001
lab_id	WR4227-5
qc_type	NM
units	UG/KG
Pct_Solids	94
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	800	J	P
4,4'-DDE	9600		
4,4'-DDT	3600		
ALDRIN	900	U	
ALPHA-BHC	900	U	
ALPHA-CHLORDANE	760	J	P
BETA-BHC	900	U	
DELTA-BHC	900	U	
DIELDRIN	1800	U	
ENDOSULFAN I	900	U	
ENDOSULFAN II	1800	U	
ENDOSULFAN SULFATE	1800	U	
ENDRIN	1800	U	
ENDRIN ALDEHYDE	1800	U	
ENDRIN KETONE	1800	U	
GAMMA-BHC (LINDANE)	900	U	
GAMMA-CHLORDANE	850	J	P
HEPTACHLOR	900	U	
HEPTACHLOR EPOXIDE	900	U	
METHOXYCHLOR	9000	U	
TOXAPHENE	18000	U	

nsample	JAX47-SB50-S-00-121801
samp_date	12/18/2001
lab_id	WR4189-1
qc_type	NM
units	UG/KG
Pct_Solids	81
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	10000	U	
4,4'-DDE	12000		
4,4'-DDT	180000		
ALDRIN	5300	U	
ALPHA-BHC	5300	U	
ALPHA-CHLORDANE	14000		
BETA-BHC	5300	U	
DELTA-BHC	5300	U	
DIELDRIN	3400	J	P
ENDOSULFAN I	5300	U	
ENDOSULFAN II	10000	U	
ENDOSULFAN SULFATE	10000	U	
ENDRIN	10000	U	
ENDRIN ALDEHYDE	10000	U	
ENDRIN KETONE	10000	U	
GAMMA-BHC (LINDANE)	5300	U	
GAMMA-CHLORDANE	9700		
HEPTACHLOR	5300	U	
HEPTACHLOR EPOXIDE	5300	U	
METHOXYCHLOR	53000	U	
TOXAPHENE	100000	U	

nsample	JAX47-SB51-S-00-121801
samp_date	12/18/2001
lab_id	WR4189-2
qc_type	NM
units	UG/KG
Pct_Solids	70
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	510		
4,4'-DDE	1500		
4,4'-DDT	2300		
ALDRIN	240	U	
ALPHA-BHC	240	U	
ALPHA-CHLORDANE	1300		
BETA-BHC	240	U	
DELTA-BHC	240	U	
DIELDRIN	380	J	P
ENDOSULFAN I	240	U	
ENDOSULFAN II	470	U	
ENDOSULFAN SULFATE	470	U	
ENDRIN	470	U	
ENDRIN ALDEHYDE	470	U	
ENDRIN KETONE	470	U	
GAMMA-BHC (LINDANE)	240	U	
GAMMA-CHLORDANE	520		
HEPTACHLOR	240	U	
HEPTACHLOR EPOXIDE	96	J	P
METHOXYCHLOR	2400	U	
TOXAPHENE	4700	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: PEST/PC

nsample	JAX47-SB56-S-00-121801
samp_date	12/18/2001
lab_id	WR4189-3
qc_type	NM
units	UG/KG
Pct_Solids	69
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	42		
4,4'-DDE	59		
4,4'-DDT	57		
ALDRIN	2.5	U	
ALPHA-BHC	2.5	U	
ALPHA-CHLORDANE	2.5	U	
BETA-BHC	2.5	U	
DELTA-BHC	2.5	U	
DIELDRIN	4.8	U	
ENDOSULFAN I	2.5	U	
ENDOSULFAN II	4.8	U	
ENDOSULFAN SULFATE	4.8	U	
ENDRIN	4.8	U	
ENDRIN ALDEHYDE	4.8	U	
ENDRIN KETONE	4.8	U	
GAMMA-BHC (LINDANE)	2.5	U	
GAMMA-CHLORDANE	2.5	U	
HEPTACHLOR	2.5	U	
HEPTACHLOR EPOXIDE	2.5	U	
METHOXYCHLOR	25	U	
TOXAPHENE	48	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OPEST

nsample	JAX47-SB01-S-00-121901
samp_date	12/19/2001
lab_id	C1L210112001
qc_type	NM
units	UG/KG
Pct_Solids	37
DUP_OF:	

Parameter	Result	ValQual	QualCode
DISULFOTON	89	U	
ETHYL PARATHION	89	U	
FAMPHUR	89	U	
METHYL PARATHION	89	U	
PHORATE	89	U	

nsample	JAX47-SB10-S-02-121901
samp_date	12/19/2001
lab_id	C1L210112002
qc_type	NM
units	UG/KG
Pct_Solids	70
DUP_OF:	

Parameter	Result	ValQual	QualCode
DISULFOTON	47	U	
ETHYL PARATHION	47	U	
FAMPHUR	47	U	
METHYL PARATHION	47	U	
PHORATE	47	U	

nsample	JAX47-SB17-S-00-121901
samp_date	12/19/2001
lab_id	C1L210112003
qc_type	NM
units	UG/KG
Pct_Solids	77
DUP_OF:	

Parameter	Result	ValQual	QualCode
DISULFOTON	43	U	
ETHYL PARATHION	43	U	
FAMPHUR	43	U	
METHYL PARATHION	43	U	
PHORATE	43	U	

PROJ_NO: 3966

SDG: CTO162-2 MEDIA: SOIL DATA FRACTION: OPEST

nsample	JAX47-SB32-S-47-121901
samp_date	12/19/2001
lab_id	C1L210112004
qc_type	NM
units	UG/KG
Pct_Solids	75
DUP_OF:	

Parameter	Result	ValQual	QualCode
DISULFOTON	44	U	
ETHYL PARATHION	44	U	
FAMPHUR	44	U	
METHYL PARATHION	44	U	
PHORATE	44	U	

J.2 Phase II

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. ROOF**	**DATE:**	**JUNE 24, 2002**
FROM:	**ETHAN G. LEE**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – IRON, MANGANESE, TAL METALS, AND MISCELLANEOUS PARAMETERS**
NAS JACKSONVILLE – CTO 162
SAMPLE DELIVERY GROUP (SDG) – 162-3

SAMPLES: 17/AQUEOUS/

JAX-47-536-MW03-01-040902
JAX-47-MW11D-01-040402
JAX-47-MW13D-01-040402
JAX-47-MW15D-01-040802
JAX-47-MW16D-01-040502
JAX-47-MW17D-01-040402
JAX-47-MW18D-01-040502
JAX-47-MW20S-01-040902
JAX-47-USGS(S)-040902
JAX-47-MW10S-01-040902
JAX-47-MW11S-01-040402
JAX-47-MW13S-01-040402
JAX-47-MW15S-01-040802
JAX-47-MW16S-01-040502
JAX-47-MW17S-01-040402
JAX-47-MW18S-01-040502
JAX-47-USGS(D)-040902

Overview

The sample set for NAS Jacksonville, CTO 162, SDG 162-3, consists of seventeen (17) aqueous environmental samples and seventeen (17) filtered aqueous environmental samples.

All samples were analyzed for iron, manganese, and miscellaneous parameters. All filtered samples were analyzed for iron and manganese. Samples JAX-47-MW13D-01-040402, JAX-47-13S-01-040402, JAX-47-USGS(D)-040902, and JAX-47-USGS(S)-040902 were analyzed for TAL metals. The samples were collected by Tetra Tech NUS April 4, 5, 8, and 9, 2002 and analyzed by Katahdin Analytical Services. Metals analyses except mercury and thallium were conducted using method SW846 6010B. Mercury analyses were conducted using method SW846 7470. Thallium analyses were conducted using method SW846 6020. Biochemical Oxygen Demand (BOD) analyses were conducted using method EPA 405.1. Chemical Oxygen Demand (COD) analyses were conducted using method EPA 410.4. Chloride analyses were conducted using method EPA 325.2. Nitrate and Nitrite analyses were conducted using method 353.2. Total Kjeldahl Nitrogen (TKN) analyses were conducted using method EPA 351.2. Ammonia analyses were conducted using method 350.1. Sulfate analyses were conducted using method 375.4. Sulfide analyses were conducted using method 376.1. Total Organic Carbon (TOC) analyses were conducted using method EPA 415.1.

Metals analyses except mercury were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using Cold Vapor Atomic Absorption (CVAA) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
  • Holding Times

* • Calibration Recoveries
• Laboratory Blank Analyses
* • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Beryllium	0.68 ug/L	3.4 ug/L
Calcium	56.46 ug/L	282.3 ug/L
Cobalt	0.75 ug/L	3.75 ug/L
Copper	2.06 ug/L	10.3 ug/L
Iron	25.52 ug/L	127.6 ug/L
Magnesium	60.47 ug/L	302.4 ug/L
Manganese[(2)]	0.15 ug/L	0.75 ug/L
Mercury[(3)]	0.091 ug/L	0.455 ug/L
Silver[(1)]	1.25 ug/L	6.25 ug/L
Sodium[(2)]	41.4 ug/L	207 ug/L
Sodium	27.19 ug/L	136.0 ug/L
Thallium[(1)]	0.304 ug/L	1.52 ug/L
Thallium	0.13 ug/L	0.65 ug/L
Vanadium	0.87 ug/L	4.35 ug/L
TKN	0.124 mg/L	0.62 mg/L

[(1)] Maximum concentration found in preparation blank from batch PBWSD13ICW0.
[(2)] Maximum concentration found in preparation blank from batch PBWSD13ICW2.
[(3)] Maximum concentration found in preparation blank from batch PBWSD16HGW1.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Several analytes, namely beryllium, cobalt, copper, iron, mercury, thallium, vanadium, and TKN were qualified (U) because of blank contamination. No validation action was necessary for the remaining analytes because the sample results were either greater than the action level or were nondetects.

Holding Time Noncompliance

The holding time limit of seven days for Dissolved Sulfide was exceeded in samples JAX-47-MW11D-040402, JAX-47-MW11S-01-040402, JAX-47-MW13D-01-040402, JAX-47-MW13S-01-040402, JAX-47-MW17D-01-040402, and JAX-47-MW17S-01-040402. Nondetected results were qualified as estimated (UJ).

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/preparation blanks.

Other Factors Affecting Data Quality: BOD and sulfide were qualified due to holding time exceedance. Reporting limits on Form I's and EDD did not agree. Reviewer amended database for several analytes.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Ethan G. Lee
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-536-MW03-01-0409
samp_date	4/9/2002
lab_id	WS0811-005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	33000		
MANGANESE	32.4		

nsample	JAX-47-MW10S-01-040902
samp_date	4/9/2002
lab_id	WS0811-003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	84.7	U	A
MANGANESE	7.6		

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	WS0791-008
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	325		
MANGANESE	128		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	WS0791-007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	679		
MANGANESE	14.8		

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	WS0791-002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ALUMINUM	15600		
ANTIMONY	2.62	U	
ARSENIC	2.15	U	
BARIUM	60.7		
BERYLLIUM	1.4	U	A
CADMIUM	0.35	U	
CALCIUM	13300		
CHROMIUM	15.0		
COBALT	0.94	U	A
COPPER	3.2	U	A
IRON	3910		
LEAD	7.3		
MAGNESIUM	6220		
MANGANESE	29.4		
MERCURY	0.13	U	A
NICKEL	6.1		
POTASSIUM	1450		
SELENIUM	3.8		
SILVER	0.94	U	
SODIUM	5820		
THALLIUM	0.15	U	A
VANADIUM	13.1		
ZINC	11.6		

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	WS0791-003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ALUMINUM	929		
ANTIMONY	2.62	U	
ARSENIC	2.15	U	
BARIUM	162		
BERYLLIUM	0.98	U	A
CADMIUM	0.35	U	
CALCIUM	6880		
CHROMIUM	1.0		
COBALT	0.68	U	
COPPER	1.9	U	A
IRON	1400		
LEAD	1.37	U	
MAGNESIUM	8360		
MANGANESE	10.9		
MERCURY	0.10	U	A
NICKEL	2.1		
POTASSIUM	3340		
SELENIUM	3.42	U	
SILVER	0.94	U	
SODIUM	9000		
THALLIUM	0.10	U	
VANADIUM	0.70	U	A
ZINC	4.4		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-MW15D-01-040802
samp_date	4/8/2002
lab_id	WS0800-003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	569		
MANGANESE	65.3		

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	WS0800-002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	469		
MANGANESE	9.4		

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	WS0791-009
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	6700		
MANGANESE	256		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	WS0791-010
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	1360		
MANGANESE	14.5		

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	WS0791-005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	6000		
MANGANESE	168		

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	WS0791-006
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	25800		
MANGANESE	19.5		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	WS0791-011
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	8210		
MANGANESE	307		

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	WS0791-004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	7080		
MANGANESE	11.9		

nsample	JAX-47-MW20S-01-040902
samp_date	4/9/2002
lab_id	WS0811-004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	4460		
MANGANESE	82.1		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	WS0811-002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ALUMINUM	127		
ANTIMONY	2.62	U	
ARSENIC	2.15	U	
BARIUM	149		
BERYLLIUM	1.3	U	A
CADMIUM	0.35	U	
CALCIUM	5130		
CHROMIUM	0.84	U	
COBALT	1.3	U	A
COPPER	1.7	U	A
IRON	1980		
LEAD	1.37	U	
MAGNESIUM	7680		
MANGANESE	25.7		
MERCURY	0.11	U	A
NICKEL	2.9		
POTASSIUM	1970		
SELENIUM	3.42	U	
SILVER	0.94	U	
SODIUM	13600		
THALLIUM	0.10	U	
VANADIUM	1.0	U	A
ZINC	16.9		

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	WS0811-001
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ALUMINUM	2530		
ANTIMONY	2.62	U	
ARSENIC	2.15	U	
BARIUM	52.8		
BERYLLIUM	1.6	U	A
CADMIUM	0.35	U	
CALCIUM	5840		
CHROMIUM	2.9		
COBALT	3.2	U	A
COPPER	2.2	U	A
IRON	31200		
LEAD	1.37	U	
MAGNESIUM	12900		
MANGANESE	14.1		
MERCURY	0.03	U	
NICKEL	3.6		
POTASSIUM	2680		
SELENIUM	3.42	U	
SILVER	0.94	U	
SODIUM	9160		
THALLIUM	0.18	U	A
VANADIUM	2.9	U	A
ZINC	6.8		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-536-MW03-01-040902-F
samp_date	4/9/2002
lab_id	WS0811-009
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	12600		
MANGANESE	19.3		

nsample	JAX-47-MW10S-01-040902-F
samp_date	4/9/2002
lab_id	WS0811-007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	41.1	U	A
MANGANESE	8.3		

nsample	JAX-47-MW11D-01-040402-F
samp_date	4/4/2002
lab_id	WS0791-018
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	172		
MANGANESE	114		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-MW11S-01-040402-F
samp_date	4/4/2002
lab_id	WS0791-017
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	328		
MANGANESE	15.2		

nsample	JAX-47-MW13D-01-040402-F
samp_date	4/4/2002
lab_id	WS0791-015
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	1490		
MANGANESE	27.9		

nsample	JAX-47-MW13S-01-040402-F
samp_date	4/4/2002
lab_id	WS0791-016
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	2900		
MANGANESE	66.1		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-MW15D-01-040802-F
samp_date	4/8/2002
lab_id	WS0800-005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	526		
MANGANESE	62.8		

nsample	JAX-47-MW15S-01-040802-F
samp_date	4/8/2002
lab_id	WS0800-004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	402		
MANGANESE	9.9		

nsample	JAX-47-MW16D-01-040502-F
samp_date	4/5/2002
lab_id	WS0791-019
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	6450		
MANGANESE	264		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-MW16S-01-040502-F
samp_date	4/5/2002
lab_id	WS0791-020
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	1400		
MANGANESE	19.5		

nsample	JAX-47-MW17D-01-040402-F
samp_date	4/4/2002
lab_id	WS0791-013
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	5070		
MANGANESE	258		

nsample	JAX-47-MW17S-01-040402-F
samp_date	4/4/2002
lab_id	WS0791-014
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	17300		
MANGANESE	30.0		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-MW18D-01-040502-F
samp_date	4/5/2002
lab_id	WS0791-021
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	7810		
MANGANESE	310		

nsample	JAX-47-MW18S-01-040502-F
samp_date	4/5/2002
lab_id	WS0791-012
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	6610		
MANGANESE	11.3		

nsample	JAX-47-MW20S-01-040902-F
samp_date	4/9/2002
lab_id	WS0811-008
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	4920		
MANGANESE	81.0		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-USGS(D)-040902-F
samp_date	4/9/2002
lab_id	WS0811-010
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	2290		
MANGANESE	29.2		

nsample	JAX-47-USGS(S)-040902-F
samp_date	4/9/2002
lab_id	WS0811-006
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	25800		
MANGANESE	14.6		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-536-MW03-01-0409
samp_date	4/9/2002
lab_id	WS0811-5
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	1.8		
BIOCHEMICAL OXYGEN DEMA	24		
CHEMICAL OXYGEN DEMAND	490		
CHLORIDE	33		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	4.0	U	
SULFIDE	4.0	U	
TOTAL KJELDAHL NITROGEN	5.4		
TOTAL ORGANIC CARBON	10		

nsample	JAX-47-MW10S-01-040902
samp_date	4/9/2002
lab_id	WS0811-3
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	15	U	
CHLORIDE	3		
NITRATE	3.4		
NITRITE	0.050	U	
SULFATE	38		
SULFIDE	4.0	U	
TOTAL KJELDAHL NITROGEN	0.3	U	A
TOTAL ORGANIC CARBON	4		

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	WS0791-8
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	15	U	
CHLORIDE	10		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	59		
SULFIDE	2.0	UJ	H
TOTAL KJELDAHL NITROGEN	0.10	U	
TOTAL ORGANIC CARBON	4		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	WS0791-7
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.1		
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	20		
CHLORIDE	18		
NITRATE	3.4		
NITRITE	0.050	U	
SULFATE	39		
SULFIDE	1.0	UJ	H
TOTAL KJELDAHL NITROGEN	0.57	U	A
TOTAL ORGANIC CARBON	12		

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	WS0791-2
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	20		
CHLORIDE	12		
NITRATE	0.05		
NITRITE	0.050	U	
SULFATE	4.0	U	
SULFIDE	2.0	UJ	H
TOTAL KJELDAHL NITROGEN	0.2	U	A
TOTAL ORGANIC CARBON	6		

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	WS0791-3
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	20		
CHLORIDE	12		
NITRATE	0.43		
NITRITE	0.050	U	
SULFATE	99		
SULFIDE	2.0	UJ	H
TOTAL KJELDAHL NITROGEN	0.1	U	A
TOTAL ORGANIC CARBON	8.2		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-MW15D-01-040802
samp_date	4/8/2002
lab_id	WS0800-3
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	15	U	
CHLORIDE	8		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	5		
SULFIDE	2.0	U	
TOTAL KJELDAHL NITROGEN	0.10	U	
TOTAL ORGANIC CARBON	3		

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	WS0800-2
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	20		
CHLORIDE	7		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	8		
SULFIDE	1.0	U	
TOTAL KJELDAHL NITROGEN	0.2	U	A
TOTAL ORGANIC CARBON	6		

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	WS0791-9
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	15	U	
CHLORIDE	18		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	73		
SULFIDE	2.0	U	
TOTAL KJELDAHL NITROGEN	0.10	U	
TOTAL ORGANIC CARBON	4		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	WS0791-10
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	83		
CHLORIDE	53		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	69		
SULFIDE	1.0	U	
TOTAL KJELDAHL NITROGEN	1.1		
TOTAL ORGANIC CARBON	20		

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	WS0791-5
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	15	U	
CHLORIDE	16		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	26		
SULFIDE	2.0	UJ	H
TOTAL KJELDAHL NITROGEN	0.10	U	
TOTAL ORGANIC CARBON	5.2		

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	WS0791-6
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	20		
CHLORIDE	15		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	66		
SULFIDE	2.0	UJ	H
TOTAL KJELDAHL NITROGEN	0.1	U	A
TOTAL ORGANIC CARBON	5.8		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	WS0791-11
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	15	U	
CHLORIDE	25		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	62		
SULFIDE	2.0	U	
TOTAL KJELDAHL NITROGEN	0.10	U	
TOTAL ORGANIC CARBON	3		

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	WS0791-4
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	40		
CHLORIDE	83		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	66		
SULFIDE	2.0	U	
TOTAL KJELDAHL NITROGEN	0.54	U	A
TOTAL ORGANIC CARBON	20		

nsample	JAX-47-MW20S-01-040902
samp_date	4/9/2002
lab_id	WS0811-4
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	15	U	
CHLORIDE	16		
NITRATE	35		
NITRITE	0.050	U	
SULFATE	150		
SULFIDE	4.0	U	
TOTAL KJELDAHL NITROGEN	0.10	U	
TOTAL ORGANIC CARBON	6.6		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	WS0811-2
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.10	U	
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	15	U	
CHLORIDE	17		
NITRATE	0.050	U	
NITRITE	0.050	U	
SULFATE	56		
SULFIDE	4.0	U	
TOTAL KJELDAHL NITROGEN	0.10	U	
TOTAL ORGANIC CARBON	2		

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	WS0811-1
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AMMONIA	0.3		
BIOCHEMICAL OXYGEN DEMA	6.0	U	
CHEMICAL OXYGEN DEMAND	20		
CHLORIDE	27		
NITRATE	0.64		
NITRITE	0.050	U	
SULFATE	94		
SULFIDE	9		
TOTAL KJELDAHL NITROGEN	0.73		
TOTAL ORGANIC CARBON	7.5		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-536-MW03-01-040902

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-005

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	33000			P	1
7439-96-5	MANGANESE	32.4			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW10S-01-040902

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	84.7	B		P	1
7439-96-5	MANGANESE	7.6			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW11D-01-040402

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-008

Concentration Units (ug/L or mg/Kg dry weight): µg/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	325			P	1
7439-96-5	MANGANESE	128			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW11S-01-040402

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-007

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	679			P	1
7439-96-5	MANGANESE	14.8			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW13D-01-040402

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	15600			P	1
7440-36-0	ANTIMONY	2.62	U		P	1
7440-38-2	ARSENIC	2.15	U		P	1
7440-39-3	BARIUM	60.7			P	1
7440-41-7	BERYLLIUM	1.4	B		P	1
7440-43-9	CADMIUM	0.35	U		P	1
7440-70-2	CALCIUM	13300			P	1
7440-47-3	CHROMIUM	15.0	B		P	1
7440-48-4	COBALT	0.94	B		P	1
7440-50-8	COPPER	3.2	B		P	1
7439-89-6	IRON	3910			P	1
7439-92-1	LEAD	7.3			P	1
7439-95-4	MAGNESIUM	6220			P	1
7439-96-5	MANGANESE	29.4			P	1
7439-97-6	MERCURY	0.13	B		CV	1
7440-02-0	NICKEL	6.1	B		P	1
7440-09-7	POTASSIUM	1450			P	1
7782-49-2	SELENIUM	3.8	B		P	1
7440-22-4	SILVER	0.94	U		P	1
7440-23-5	SODIUM	5820			P	1
7440-28-0	THALLIUM	0.15	B		MS	5
7440-62-2	VANADIUM	13.1	B		P	1
7440-66-6	ZINC	11.6	B		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW13S-01-040402

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	929			P	1
7440-36-0	ANTIMONY	2.62	U		P	1
7440-38-2	ARSENIC	2.15	U		P	1
7440-39-3	BARIUM	162			P	1
7440-41-7	BERYLLIUM	0.98	B		P	1
7440-43-9	CADMIUM	0.35	U		P	1
7440-70-2	CALCIUM	6880			P	1
7440-47-3	CHROMIUM	1.0	B		P	1
7440-48-4	COBALT	0.68	U		P	1
7440-50-8	COPPER	1.9	B		P	1
7439-89-6	IRON	1400			P	1
7439-92-1	LEAD	1.37	U		P	1
7439-95-4	MAGNESIUM	8360			P	1
7439-96-5	MANGANESE	10.9			P	1
7439-97-6	MERCURY	0.10	B		CV	1
7440-02-0	NICKEL	2.1	B		P	1
7440-09-7	POTASSIUM	3340			P	1
7782-49-2	SELENIUM	3.42	U		P	1
7440-22-4	SILVER	0.94	U		P	1
7440-23-5	SODIUM	9000			P	1
7440-28-0	THALLIUM	0.10	U		MS	5
7440-62-2	VANADIUM	0.70	B		P	1
7440-66-6	ZINC	4.4	B		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW15D-01-040802

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0800-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	569			P	1
7439-96-5	MANGANESE	65.3			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW15S-01-040802

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0800-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	469			P	1
7439-96-5	MANGANESE	9.4			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW16D-01-040502

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-009

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	6700			P	1
7439-96-5	MANGANESE	256			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW16S-01-040502

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-010

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	1360			P	1
7439-96-5	MANGANESE	14.5			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW17D-01-040402

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-005

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	6000			P	1
7439-96-5	MANGANESE	168			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW17S-01-040402

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-006

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	25800			P	1
7439-96-5	MANGANESE	19.5			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW18D-01-040502

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-011

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	8210			P	1
7439-96-5	MANGANESE	307			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW18S-01-040502

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	7080			P	1
7439-96-5	MANGANESE	11.9			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW20S-01-040902

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	4460			P	1
7439-96-5	MANGANESE	82.1			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-USGS(D)-040902

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	127	B		P	1
7440-36-0	ANTIMONY	2.62	U		P	1
7440-38-2	ARSENIC	2.15	U		P	1
7440-39-3	BARIUM	149			P	1
7440-41-7	BERYLLIUM	1.3	B		P	1
7440-43-9	CADMIUM	0.35	U		P	1
7440-70-2	CALCIUM	5130			P	1
7440-47-3	CHROMIUM	0.84	U		P	1
7440-48-4	COBALT	1.3	B		P	1
7440-50-8	COPPER	1.7	B		P	1
7439-89-6	IRON	1980			P	1
7439-92-1	LEAD	1.37	U		P	1
7439-95-4	MAGNESIUM	7680			P	1
7439-96-5	MANGANESE	25.7			P	1
7439-97-6	MERCURY	0.11	B		CV	1
7440-02-0	NICKEL	2.9	B		P	1
7440-09-7	POTASSIUM	1970			P	1
7782-49-2	SELENIUM	3.42	U		P	1
7440-22-4	SILVER	0.94	U		P	1
7440-23-5	SODIUM	13600			P	1
7440-28-0	THALLIUM	0.10	U		MS	5
7440-62-2	VANADIUM	1.0	B		P	1
7440-66-6	ZINC	16.9	B		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-USGS(S)-040902

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	2530			P	1
7440-36-0	ANTIMONY	2.62	U		P	1
7440-38-2	ARSENIC	2.15	U		P	1
7440-39-3	BARIUM	52.8			P	1
7440-41-7	BERYLLIUM	1.6	B		P	1
7440-43-9	CADMIUM	0.35	U		P	1
7440-70-2	CALCIUM	5840			P	1
7440-47-3	CHROMIUM	2.9	B		P	1
7440-48-4	COBALT	3.2	B		P	1
7440-50-8	COPPER	2.2	B		P	1
7439-89-6	IRON	31200			P	1
7439-92-1	LEAD	1.37	U		P	1
7439-95-4	MAGNESIUM	12900			P	1
7439-96-5	MANGANESE	14.1			P	1
7439-97-6	MERCURY	0.03	U		CV	1
7440-02-0	NICKEL	3.6	B		P	1
7440-09-7	POTASSIUM	2680			P	1
7782-49-2	SELENIUM	3.42	U		P	1
7440-22-4	SILVER	0.94	U		P	1
7440-23-5	SODIUM	9160			P	1
7440-28-0	THALLIUM	0.18	B		MS	5
7440-62-2	VANADIUM	2.9	B		P	1
7440-66-6	ZINC	6.8	B		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-536-MW03-01-040902-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-009

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	12600			P	1
7439-96-5	MANGANESE	19.3			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW10S-01-040902-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-007

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	41.1	B		P	1
7439-96-5	MANGANESE	8.3			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW11D-01-040402-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-018

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	172			P	1
7439-96-5	MANGANESE	114			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW11S-01-040402-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-017

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	328			P	1
7439-96-5	MANGANESE	15.2			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW13D-01-040402-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-015

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	1490			P	1
7439-96-5	MANGANESE	27.9			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW13S-01-040402-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-016

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	2900			P	1
7439-96-5	MANGANESE	66.1			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW15D-01-040802-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0800-005

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	526			P	1
7439-96-5	MANGANESE	62.8			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW15S-01-040802-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0800-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	402			P	1
7439-96-5	MANGANESE	9.9			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW16D-01-040502-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-019

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	6450			P	1
7439-96-5	MANGANESE	264			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW16S-01-040502-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-020

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	1400			P	1
7439-96-5	MANGANESE	19.5			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW17D-01-040402-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-013

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	5070			P	1
7439-96-5	MANGANESE	258			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW17S-01-040402-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-014

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	17300			P	1
7439-96-5	MANGANESE	30.0			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW18D-01-040502-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-021

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	7810			P	1
7439-96-5	MANGANESE	310			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW18S-01-040502-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0791-012

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	6610			P	1
7439-96-5	MANGANESE	11.3			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-MW20S-01-040902-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-008

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	4920			P	1
7439-96-5	MANGANESE	81.0			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-USGS(D)-040902-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-010

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	2290			P	1
7439-96-5	MANGANESE	29.2			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-47-USGS(S)-040902-F

Matrix: WATER **SDG Name:** CTO162-3

Percent Solids: 0.00 **Lab Sample ID:** WS0811-006

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-89-6	IRON	25800			P	1
7439-96-5	MANGANESE	14.6			P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0811-5
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO#162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-536-MW03-01-040902~	AQ	4/9/02	4/10/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	24 mg/L	24	4	6	E405.1	04/15/02	JLB	E405.1	04/10/02	LB/KG	
Chemical Oxygen Demand	490 mg/L	15	1	15	E410.4	05/07/02	JLB	N/A	N/A	N/A	
Chloride	33 mg/L	2.0	1	2	E325.2	05/01/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	5.4 mg/L	0.10	1	0.1	E351.2	05/02/02	PAG	E351.2	04/29/02	CYD	
Nitrogen-Ammonia as N	1.8 mg/L	0.10	1	0.1	350.1	05/04/02	PAG	N/A	N/A	N/A	
Sulfate	<4.0 mg/L	4.0	1	1	375.4	04/25/02	SKC	N/A	N/A	N/A	1
Sulfide, Dissolved	<4.0 mg/L	4.0	1	1	376.1	04/15/02	JF	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	10 mg/L	1.0	1	1	E415.1	04/29/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

Revision: 0.00

Katahdin ANALYTICAL SERVICES

nelac ACCREDITED IN ACCORDANCE WITH Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0811-3
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO#162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW10S-01-040902~	AQ	4/9/02	4/10/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/15/02	JLB	E405.1	04/10/02	LB/KG	
Chemical Oxygen Demand	<15 mg/L	15	1	15	E410.4	05/06/02	JLB	N/A	N/A	N/A	
Chloride	3 mg/L	2.0	1	2	E325.2	05/01/02	PAG	N/A	N/A	N/A	
Nitrate as N	3.4 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	0.3 mg/L	0.10	1	0.1	E351.2	05/02/02	PAG	E351.2	04/29/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	05/04/02	PAG	N/A	N/A	N/A	
Sulfate	38 mg/L	4.0	1	1	375.4	04/25/02	SKC	N/A	N/A	N/A	
Sulfide, Dissolved	<4.0 mg/L	4.0	1	1	376.1	04/15/02	JF	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	4 mg/L	1.0	1	1	E415.1	04/29/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

Katahdin ANALYTICAL SERVICES

nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-8
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW11D-01-040402~	AQ	4/4/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	<15 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	10 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	<0.10 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/22/02	JLB	N/A	N/A	N/A	
Sulfate	59 mg/L	4.0	1	1	375.4	04/23/02	CYD	N/A	N/A	N/A	
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	4 mg/L	1.0	1	1	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-7
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW11S-01-040402~	AQ	4/4/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	20 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	18 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	3.4 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	0.57 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	0.1 mg/L	0.10	1	0.1	350.1	04/22/02	JLB	N/A	N/A	N/A	
Sulfate	39 mg/L	4.0	1	1	375.4	04/23/02	CYD	N/A	N/A	N/A	
Sulfide, Dissolved	<1.0 mg/L	1.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	
Total Organic Carbon (TOC)	12 mg/L	1.0	1	1	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-2
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW13D-01-040402~	AQ	4/4/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	20 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	12 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
NITRATE AS N	0.05 mg/L	0.050	1	0.050	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	0.2 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/22/02	JLB	N/A	N/A	N/A	
Sulfate	<4.0 mg/L	4.0	1	1	375.4	04/18/02	CYD	375.4	N/A	N/A	1
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	6 mg/L	2.0	2	1.0	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-3
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW13S-01-040402~	AQ	4/4/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	20 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	12 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	0.43 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	0.1 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/22/02	JLB	N/A	N/A	N/A	
Sulfate	99 mg/L	5.0	1	1	375.4	04/18/02	CYD	375.4	N/A	N/A	
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	8.2 mg/L	1.0	1	1.0	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0800-3
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO#162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW15D-01-040802~	AQ	4/8/02	4/9/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/15/02	JLB	E405.1	04/10/02	LB/KG	
Chemical Oxygen Demand	<15 mg/L	15	1	15	E410.4	05/06/02	JLB	N/A	N/A	N/A	
Chloride	8 mg/L	2.0	1	2	E325.2	05/01/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/09/02	PAG	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/09/02	PAG	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	<0.10 mg/L	0.10	1	0.1	E351.2	04/23/02	PAG	E351.2	04/22/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	05/04/02	PAG	N/A	N/A	N/A	
Sulfate	5 mg/L	4.0	1	1	375.4	04/25/02	SKC	N/A	N/A	N/A	
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	3 mg/L	2.0	2	1	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0800-2
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO#162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW15S-01-040802~	AQ	4/8/02	4/9/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/15/02	JLB	E405.1	04/10/02	LB/KG	
Chemical Oxygen Demand	20 mg/L	15	1	15	E410.4	05/06/02	JLB	N/A	N/A	N/A	
Chloride	7 mg/L	2.0	1	2	E325.2	05/01/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/09/02	PAG	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/09/02	PAG	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	0.2 mg/L	0.10	1	0.1	E351.2	05/02/02	PAG	E351.2	04/29/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	05/04/02	PAG	N/A	N/A	N/A	
Sulfate	8 mg/L	4.0	1	1	375.4	04/25/02	SKC	N/A	N/A	N/A	1
Sulfide, Dissolved	<1.0 mg/L	1.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	
Total Organic Carbon (TOC)	6 mg/L	2.0	2	1	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory'sacceptance range. Sample homogeneity may be a factor. The individual results were 8.3 and 12.7.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-9
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW16D-01-040502~	AQ	4/5/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	<15 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	18 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	<0.10 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/26/02	JLB	N/A	N/A	N/A	
Sulfate	73 mg/L	4.0	1	1	375.4	04/23/02	CYD	N/A	N/A	N/A	
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	4 mg/L	1.0	1	1	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-10
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW16S-01-040502~	AQ	4/5/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	83 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	53 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	1.1 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/26/02	JLB	N/A	N/A	N/A	
Sulfate	69 mg/L	4.0	1	1	375.4	04/23/02	CYD	N/A	N/A	N/A	
Sulfide, Dissolved	<1.0 mg/L	1.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	
Total Organic Carbon (TOC)	20 mg/L	10	10	1	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-5
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW17D-01-040402~	AQ	4/4/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	<15 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	16 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	1
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	1
Nitrogen, Total Kjeldahl as N	<0.10 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/22/02	JLB	N/A	N/A	N/A	
Sulfate	26 mg/L	4.0	1	1	375.4	04/23/02	CYD	N/A	N/A	N/A	
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	2
Total Organic Carbon (TOC)	5.2 mg/L	1.0	1	1.0	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-6
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW17S-01-040402~	AQ	4/4/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	20 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	15 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	1
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	1
Nitrogen, Total Kjeldahl as N	0.1 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/22/02	JLB	N/A	N/A	N/A	
Sulfate	66 mg/L	4.0	1	1	375.4	04/23/02	CYD	N/A	N/A	N/A	
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	2
Total Organic Carbon (TOC)	5.8 mg/L	1.0	1	1	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-11
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW18D-01-040502~	AQ	4/5/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	<15 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	25 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	<0.10 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/26/02	JLB	N/A	N/A	N/A	
Sulfate	62 mg/L	4.0	1	1	375.4	04/23/02	CYD	N/A	N/A	N/A	
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	3 mg/L	1.0	1	1	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0791-4
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO# 162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW18S-01-040502~	AQ	4/5/02	4/6/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/11/02	CBU	E405.1	04/06/02	PAG	
Chemical Oxygen Demand	40 mg/L	15	1	15	E410.4	04/25/02	JLB	N/A	N/A	N/A	
Chloride	83 mg/L	2.0	1	2	E325.2	04/25/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/06/02	JLB	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	0.54 mg/L	0.10	1	0.1	E351.2	04/18/02	CBU	E351.2	04/16/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	04/22/02	JLB	N/A	N/A	N/A	
Sulfate	66 mg/L	5.0	1	1	375.4	04/23/02	CYD	N/A	N/A	N/A	
Sulfide, Dissolved	<2.0 mg/L	2.0	1	1	376.1	04/12/02	CBU	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	20 mg/L	10	10	1.0	E415.1	04/27/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0811-4
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO#162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-MW20S-01-040902~	AQ	4/9/02	4/10/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/15/02	JLB	E405.1	04/10/02	LB/KG	
Chemical Oxygen Demand	<15 mg/L	15	1	15	E410.4	05/06/02	JLB	N/A	N/A	N/A	
Chloride	16 mg/L	2.0	1	2	E325.2	05/01/02	PAG	N/A	N/A	N/A	
Nitrate as N	35 mg/L	0.50	10	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	<0.10 mg/L	0.10	1	0.1	E351.2	05/02/02	PAG	E351.2	04/29/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	05/04/02	PAG	N/A	N/A	N/A	
Sulfate	150 mg/L	10	1	1	375.4	04/25/02	SKC	N/A	N/A	N/A	
Sulfide, Dissolved	<4.0 mg/L	4.0	1	1	376.1	04/15/02	JF	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	6.6 mg/L	1.0	1	1	E415.1	04/29/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0811-2
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO#162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-USGS(D)-040902~	AQ	4/9/02	4/10/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/15/02	JLB	E405.1	04/10/02	LB/KG'	
Chemical Oxygen Demand	<15 mg/L	15	1	15	E410.4	05/06/02	JLB	N/A	N/A	N/A	
Chloride	17 mg/L	2.0	1	2	E325.2	05/01/02	PAG	N/A	N/A	N/A	
Nitrate as N	<0.050 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	<0.10 mg/L	0.10	1	0.1	E351.2	05/02/02	PAG	E351.2	04/29/02	CYD	
Nitrogen-Ammonia as N	<0.10 mg/L	0.10	1	0.1	350.1	05/04/02	PAG	N/A	N/A	N/A	
Sulfate	56 mg/L	4.0	1	1	375.4	04/25/02	SKC	N/A	N/A	N/A	
Sulfide, Dissolved	<4.0 mg/L	4.0	1	1	376.1	04/15/02	JF	N/A	N/A	N/A	1
Total Organic Carbon (TOC)	2 mg/L	1.0	1	1	E415.1	04/29/02	KGT	N/A	N/A	N/A	

Notes:

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII

PITTSBURGH, PA 15220-2745

Lab Sample ID: WS0811-1
Report Date: 5/10/2002 5:10:07 PM
PO No.: MSA-0900-025
Project: NAS JACKSONVILLE CTO#162
SDG: CTO162-3
Solids (%) N/A

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-USGS(S)-040902~	AQ	4/9/02	4/10/02

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
BOD5	<6.0 mg/L	6.0	1	6	E405.1	04/15/02	JLB	E405.1	04/10/02	LB/KG	
Chemical Oxygen Demand	20 mg/L	15	1	15	E410.4	05/06/02	JLB	N/A	N/A	N/A	
Chloride	27 mg/L	2.0	1	2	E325.2	05/01/02	PAG	N/A	N/A	N/A	
Nitrate as N	0.64 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrite as N	<0.050 mg/L	0.050	1	0.05	353.2	04/10/02	PAG	N/A	N/A	N/A	
Nitrogen, Total Kjeldahl as N	0.73 mg/L	0.10	1	0.1	E351.2	05/02/02	PAG	E351.2	04/29/02	CYD	
Nitrogen-Ammonia as N	0.3 mg/L	0.10	1	0.1	350.1	05/04/02	PAG	N/A	N/A	N/A	
Sulfate	94 mg/L	6.7	1	1	375.4	04/25/02	SKC	N/A	N/A	N/A	
Sulfide, Dissolved	9 mg/L	6.7	1	1	376.1	04/15/02	JF	N/A	N/A	N/A	
Total Organic Carbon (TOC)	7.5 mg/L	1.0	1	1	E415.1	04/29/02	KGT	N/A	N/A	N/A	

Notes:

340 County Road No. 5
P.O.Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

APPENDIX C
SUPPORT DOCUMENTATION

WS 0791

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER HX0 050 115A | PAGE 1 OF 2

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
N3966	PSC 47	G. Roof (904) 281-0400	Katahdin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
		T. Thompson (904) 281-0400	340 County Rd #5
		CARRIER/WAYBILL NUMBER	CITY, STATE
		Fed Ex	Westbrooke, ME 04092

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2002)	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	G	G	G	P	P	
						PRESERVATIVE USED	-	1	1	1	H_2SO_4	HCl	NaOH	$ZnAc$	1
						TYPE OF ANALYSIS	TCL VOCs	TCL Pesticides	OP Pesticides	TCL Herbicides	TOC	Methane/Ethane/Ethene	Diss. Sulfide	NO_2/NO_3/SO4/Cl TBOD	COMMENTS
4/5	1130	JAX-47-MW18S-01-040502	GW	G	14		3	2	2	2	1	2	1	1	
4/4	1120	JAX-47-MW17D-01-040402	GW	G	14		3	2	2	2	1	2	1	1	
4/4	1130	JAX-47-MW17S-01-040402	GW	G	14		3	2	2	2	1	2	1	1	
4/4	1610	JAX47-MW13D-01-040402	GW	G	14		3	2	2	2	1	2	1	1	
4/4	1600	JAX47-MW13S-01-040402	GW	G	14		3	2	2	2	1	2	1	1	
4/4	1850	JAX-47-MW11S-01-040402	GW	G	14		3	2	2	2	1	2	1	1	
4/4	1930	JAX-47-MW11D-01-040402	GW	G	14 (12)		3	(TV) 2 | 1	2	(TI) 2 | 1	1	2	1	1	
4/5	0745	JAX-47-MW16D-01-040502	GW	G	14		3	2	2	2	1	2	1	1	
4/5	0915	JAX-47-MW16S-01-040502	GW	G	14		3	2	2	2	1	2	1	1	
4/5	1120 (D)	JAX-47-MW18D-01-040502	GW	G	14		3	2	2	2	1	2	1	1	
4/5	1205	JAX-47-TB040502	W	-	2		2								

1. RELINQUISHED BY	DATE 4.5.02	TIME 1900	1. RECEIVED BY	DATE 4/5/02	TIME 1100
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER HV0 050 115A | PAGE 2 OF 2

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
N3966	PSC 47	G. Roof (904) 281-0400	Katahdin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
		T. Thompson (904) 281-0400	340 County Rd #5
		CARRIER/WAYBILL NUMBER	CITY, STATE
		Fed Ex	Westbrook, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2002)	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)								
						PRESERVATIVE USED								
						TYPE OF ANALYSIS	NH_3 | TKN | COD	Diss. Fe/Mn	TCL SVOCs	PCBs	TAL Metals	H_2SO_4 P	HNO_3 P	– G	– G	HNO_3 P	COMMENTS
4/5	1130	JAX·47·MW18S·01·040502	GW	G	3		1	2									
4/4	1120	JAX·47·MW17D·01·040402	GW	G	3		1	2									
4/4	1130	JAX·47·MW17S·01·040402	GW	G	3		1	2									
4/4	1610	JAX·47·MW13D·01·040402	GW	G	8		1	2	2	2	1						
4/4	1600	JAX·47·MW13S·01·040402	GW	G	8		1	2	2	2	1						
4/4	1850	JAX·47·MW11S·01·040402	GW	G	3		1	2									
4/4	1930	JAX·47·MW11D·01·040402	GW	G	3		1	2									
4/5	0745	JAX·47·MW16D·01·040502	GW	G	3		1	2									
4/5	0915	JAX·47·MW16S·01·040502	GW	G	3		1	2									
4/5	~~1120~~ 1205	JAX·47·MW18D·01·040502	GW	G	3		1	2									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4.5.02	1900	1. RECEIVED BY	4/6/02	1100
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

W30 800

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER HYO 050115C | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
N3996	PSC 47	GREG ROOF (904) 281-0400	KATAHDIN LABS ANDREA COLBY
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
R.L. [signature] Tom Thompson		TOM THOMPSON (904) 281-0400	340 COUNTY RD #5
		CARRIER/WAYBILL NUMBER	CITY, STATE
		FED EX	WESTBROOKE, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2002	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	TYPE OF ANALYSIS / PRESERVATIVE USED: VOC HCl	TCL VOCs MEE HCl	TCL PESTICIDES /	TOC H2SO4	DISSOLVED SULFIDE (376.1) NaOH ZnAc	NO2/NO3/SO4/Cl /	TBOD NH3/TKN/COD H2SO4	DISSOLVED FE/MN *ADD TO FILTERED SAMPLE HNO3	COMMENTS
							G	G	G	G	P	P	P	P	
4/8	0000	JAX-47-DUP01-040802	GW	G	3 (3+5)		3	0	2	0	0	0	0	0	COOL TO 4°C
4/8	1255	JAX-47-MW15S-01-040802	GW	G	13		3	2	2	1	1	1	1	2	
4/8	1245	JAX-47-MW15D-01-040802	GW	G	13		3	2	2	1	1	1	1	2	
4/8	1245	JAX-47-MS/MSD-01-040802	GW	G	26 (13+13)		6	0	4	0	0	0	0	0	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	4/8/02	1700	1. RECEIVED BY [signature]	4/9/02	1010
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

02000029

W5U6N

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER HY0050115D | PAGE 1 OF 2

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
N3966	PSC47	GREG ROOF 904-281-0400	KATAHDIN ANDREA COLBY
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
Rich Mac Louis Rykl		T. THOMPSON 904-281-0400	340 COUNTY RD #5
		CARRIER/WAYBILL NUMBER	CITY, STATE
		FED EX	WESTBROOK, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2002	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	G	P	P	P	P	
						PRESERVATIVE USED	HCl	HCl	-	H_2SO_4 NaOH ZnAc	-	H_2SO_4	NO_3		
						TYPE OF ANALYSIS	VOC	TCL VOA's	METH, ETH, ETH	TCL PESTICIDES	TOC	DISSOLVED SULFIDE (376.1)	$NO_2/NO_3/SO_4$ (C1)	TBOD NH_3 TKN) COD	DISSOLVED Fe/Mn (UNFILTERED)	COMMENTS
4/9	1550	JAX-47-USGS(S)-040902	GW	G	12		3	2	2	1	1	1	1	1	COOL TO 4°C
4/9	1300	JAX47-MW10S-01-040902	GW	G	12		3	2	2	1	1	1	1	1	
4/9	1510	JAX47-MW20S-01-040902	GW	G	12		3	2	2	1	1	1	1	1	
4/9	1230	JAX47-536-MW03-01-040902	GW	G	12		3	2	2	1	1	1	1	1	
4/9	0945	JAX47-USGS(D)-040902	GW	G	12		3	2	2	1	1	1	1	1	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4/9/02	1800	1. RECEIVED BY	4/10/02	930
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

00000023

WSO 811

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER #Y0 050 115 D | PAGE 2 OF 2

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
N3966	PSC 47	GREG ROOF 904-281-0400	KATAHDIN ANDREA COLBY
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
		J. THOMPSON 904-281-0400	340 COUNTY RD #5
		CARRIER/WAYBILL NUMBER	CITY, STATE
		FEDEX	WEST BROOK, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2002	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	P	G	G	P					
						PRESERVATIVE USED			HNO3	HNO3					
						TYPE OF ANALYSIS: DISSOLVED (ADD "F" TO END OF ID)									
						TOTAL (ENTER ID)									
						TCL SVOCs									
						PCBs									
						TAL METALS									
															COMMENTS
4/9	1350	JAX-47-USGS(S)-040902	GW	G	4		1	1	1	1					COOL TO 4°C
4/9	1300	JAX47-MW10S-01-040902	GW	G	1		1	—	—	—					
4/9	1500	JAX47-MW20S-01-040902	GW	G	1		1	—	—	—					
4/9	1230	JAX47-536-MW035F040902	GW	G	1		1	-	—	-					
4/9	0945	JAX47-USGS(D)-040902	GW	G	4		1	1	1	1					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4/9/02	1900	1. RECEIVED BY	4/10/02	930
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

280000

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 1 OF 11

COOLER: 1 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: APC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☑	☐	*	
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.5	APC notified client by fax 4/8/02.
6. SAMPLES RECEIVED AT 4°C +/- 2?	☐	☑	☐	COOLER TEMP (°C)= NA	
(ICE) / ICE PACKS PRESENT or N?				(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:
* 0004 & total Fe & Mn noted on COC — rec'd per Tom Thompson 4/8/02
MW13S & MW13D received extra set of bottles labeled diss Fe & Mn that don't look filtered — disregard per Tom Thompson 4/8/02.

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

Label filtered metals ID — F per Tom Thompson 4/8/02.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 2 OF 11

COOLER: 2 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: ASC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 2.2	
6. SAMPLES RECEIVED AT 4°C +/- 2?	☑	☐	☐	COOLER TEMP (°C)= NA	
(ICE) / ICE PACKS PRESENT (Y) or N?				(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

010000

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 3 OF 11

COOLER: 3 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3 CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.2	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

1100000

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 4 OF 11

COOLER: 4 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: DC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 0.7	
6. SAMPLES RECEIVED AT 4°C +/- 2?	☐	☑	☐	COOLER TEMP (°C)= NA	
(ICE) ICE PACKS PRESENT (Y) or N?				(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

21000012

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 5 OF 11

COOLER: 5 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1105
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.2	
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) ICE PACKS PRESENT ⊘ or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) **Use this space** (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

2100000

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 6 OF 11

COOLER: 6 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1105
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3 CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 0.8	
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) ICE PACKS PRESENT or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☑	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]: 1 Sample Jax-47-MW16S-01-040502 ~~for~~ voa vial recieved broken. Two good vials recieved for analysis

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

rev 10/00

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 7 OF 11

COOLER: 7 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: ADC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3 CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.8	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT ⛄ or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 8 OF 11

COOLER: 8 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: APC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.9	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

5100000

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 9 OF 11

COOLER: 1 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3 CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 2.0	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT or N?	☑	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

L100000

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS0791

PAGE: 10 OF 11

COOLER: 10 OF 11

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3 CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 2.5	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT or N?	☑	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

(00001X)

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) #: WS0791

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#:
SDG#:
DATE / TIME RECEIVED: 4/6/02 1100
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3 CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 0.5	
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE / ICE PACKS PRESENT or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W50800

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: Tetra Tech

PROJECT: NAS Jax

COC#
SDG#
DATE / TIME RECEIVED: 4/9/02 1010
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: AMY
LIMS REVIEW BY / PM: DC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☑	☐	*	
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 2.1	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☑	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):
* received VOA TB, nafcan COC and rec total Fe & Mn, nafcan COC - run per Tom Thompson 4/9/02.

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W50811

PAGE: 1 OF 3

COOLER: 1 OF 3

CLIENT: Tetra Tech

COC#

SDG#

DATE / TIME RECEIVED: 4/10/02 9:30

DELIVERED BY: Fedex

RECEIVED BY: ARE

LIMS ENTRY BY: ARE

LIMS REVIEW BY / PM: RC

PROJECT: NAS Jax

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑ ARE 4/10/02	☑	☐	*	
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.3	RC notified Tom Thompson by email 4/10/02
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) / ICE PACKS PRESENT (Y) or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☐ N/A		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

* received WA Trip Blk not on COC, will analyze as JAK-47-T8040902. RC notified Tom Thompson by email 4/10/02.

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

ICWWW

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W50811

PAGE: 2 OF 3

COOLER: 2 OF 3

CLIENT: TetraTech

PROJECT: NAS Ix

COC#
SDG#
DATE / TIME RECEIVED: 4/10/02 9:30
DELIVERED BY: Fedex
RECEIVED BY: ARE
LIMS ENTRY BY: ARE
LIMS REVIEW BY / PM:

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.7	
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) / ICE PACKS PRESENT (Y) or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]: # TRIP Blank for 2 Broken vial received - mm - Trip Blank not on chain

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) #: W50811

PAGE: 3 OF 3

COOLER: 3 OF 3

CLIENT: TetraTech

PROJECT: NAS Jax

COC#:
SDG#:
DATE / TIME RECEIVED: 9/10/02 9:30
DELIVERED BY: Fedex
RECEIVED BY: ARF
LIMS ENTRY BY: ARF
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.2	
6. SAMPLES RECEIVED AT 4°C +/- 2? CE / ICE PACKS PRESENT (Y) or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☐ N/A		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised; C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

162-3

HOLDING TIME

05/13/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	BOD	04/09/20	04/10/02	04/15/02	-6,574	5	-6,569
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	BOD	04/09/02	04/10/02	04/15/02	1	5	6
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	BOD	04/04/20	04/06/02	04/11/02	-6,573	5	-6,568
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	BOD	04/04/20	04/06/02	04/11/02	-6,573	5	-6,568
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	BOD	04/04/20	04/06/02	04/11/02	-6,573	5	-6,568
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	BOD	04/04/20	04/06/02	04/11/02	-6,573	5	-6,568
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	BOD	04/08/20	04/10/02	04/15/02	-6,573	5	-6,568
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	BOD	04/08/20	04/10/02	04/15/02	-6,573	5	-6,568
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	BOD	04/05/20	04/06/02	04/11/02	-6,574	5	-6,569
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	BOD	04/05/20	04/06/02	04/11/02	-6,574	5	-6,569
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	BOD	04/04/02	04/06/02	04/11/02	2	5	7
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	BOD	04/04/20	04/06/02	04/11/02	-6,573	5	-6,568
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	BOD	04/05/20	04/06/02	04/11/02	-6,574	5	-6,569
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	BOD	04/05/02	04/06/02	04/11/02	1	5	6
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	BOD	04/09/02	04/10/02	04/15/02	1	5	6
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	BOD	04/09/20	04/10/02	04/15/02	-6,574	5	-6,569
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	BOD	04/09/20	04/10/02	04/15/02	-6,574	5	-6,569
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	CL	04/09/02	05/01/02	05/01/02	22	0	22
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	CL	04/09/02	05/01/02	05/01/02	22	0	22
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	CL	04/04/20	04/25/02	04/25/02	-6,554	0	-6,554
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	CL	04/04/20	04/25/02	04/25/02	-6,554	0	-6,554
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	CL	04/04/02	04/25/02	04/25/02	21	0	21
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	CL	04/04/02	04/25/02	04/25/02	21	0	21
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	CL	04/08/20	05/01/02	05/01/02	-6,552	0	-6,552

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	CL	04/08/20	05/01/02	05/01/02	-6,552	0	-6,552
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	CL	04/05/20	04/25/02	04/25/02	-6,555	0	-6,555
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	CL	04/05/20	04/25/02	04/25/02	-6,555	0	-6,555
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	CL	04/04/02	04/25/02	04/25/02	21	0	21
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	CL	04/04/02	04/25/02	04/25/02	21	0	21
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	CL	04/05/20	04/25/02	04/25/02	-6,555	0	-6,555
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	CL	04/05/20	04/25/02	04/25/02	-6,555	0	-6,555
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	CL	04/09/20	05/01/02	05/01/02	-6,553	0	-6,553
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	CL	04/09/20	05/01/02	05/01/02	-6,553	0	-6,553
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	CL	04/09/20	05/01/02	05/01/02	-6,553	0	-6,553
MG/L	JAX-47-536-MW03-01-0409	WS0811-5 DUP	NORMAL	162-3	COD	04/09/20	05/07/02	05/07/02	-6,547	0	-6,547
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	COD	04/09/02	05/06/02	05/06/02	27	0	27
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	COD	04/04/02	04/25/02	04/25/02	21	0	21
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	COD	04/04/02	04/25/02	04/25/02	21	0	21
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	COD	04/04/20	04/25/02	04/25/02	-6,554	0	-6,554
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	COD	04/04/20	04/25/02	04/25/02	-6,554	0	-6,554
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	COD	04/08/20	05/06/02	05/06/02	-6,547	0	-6,547
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	COD	04/08/20	05/06/02	05/06/02	-6,547	0	-6,547
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	COD	04/05/20	04/25/02	04/25/02	-6,555	0	-6,555
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	COD	04/05/20	04/25/02	04/25/02	-6,555	0	-6,555
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	COD	04/04/02	04/25/02	04/25/02	21	0	21
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	COD	04/04/20	04/25/02	04/25/02	-6,554	0	-6,554
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	COD	04/05/02	04/25/02	04/25/02	20	0	20
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	COD	04/05/02	04/25/02	04/25/02	20	0	20
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	COD	04/09/20	05/06/02	05/06/02	-6,548	0	-6,548
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	COD	04/09/20	05/06/02	05/06/02	-6,548	0	-6,548
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	COD	04/09/20	05/06/02	05/06/02	-6,548	0	-6,548

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	DSUL	04/09/20	04/15/02	04/15/02	-6,569	0	-6,569
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	DSUL	04/09/20	04/15/02	04/15/02	-6,569	0	-6,569
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	DSUL	04/04/20	04/12/02	04/12/02	-6,567	0	-6,567
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	DSUL	04/04/20	04/12/02	04/12/02	-6,567	0	-6,567
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	DSUL	04/04/20	04/12/02	04/12/02	-6,567	0	-6,567
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	DSUL	04/04/20	04/12/02	04/12/02	-6,567	0	-6,567
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	DSUL	04/08/20	04/12/02	04/12/02	-6,571	0	-6,571
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	DSUL	04/08/02	04/12/02	04/12/02	4	0	4
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	DSUL	04/05/02	04/12/02	04/12/02	7	0	7
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	DSUL	04/05/02	04/12/02	04/12/02	7	0	7
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	DSUL	04/04/20	04/12/02	04/12/02	-6,567	0	-6,567
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	DSUL	04/04/20	04/12/02	04/12/02	-6,567	0	-6,567
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	DSUL	04/05/20	04/12/02	04/12/02	-6,568	0	-6,568
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	DSUL	04/05/20	04/12/02	04/12/02	-6,568	0	-6,568
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	DSUL	04/09/20	04/15/02	04/15/02	-6,569	0	-6,569
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	DSUL	04/09/20	04/15/02	04/15/02	-6,569	0	-6,569
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	DSUL	04/09/20	04/15/02	04/15/02	-6,569	0	-6,569
UG/L	JAX-47-536-MW03-01-0409	0204266-07A	NORMAL	162-3	ETHA	04/09/20	04/18/02	04/18/02	-6,566	0	-6,566
UG/L	JAX-47-MW10S-01-040902	0204266-05A	NORMAL	162-3	ETHA	04/09/20	04/18/02	04/18/02	-6,566	0	-6,566
UG/L	JAX-47-MW11D-01-040402	0204189-07A	NORMAL	162-3	ETHA	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW11S-01-040402	0204189-06A	NORMAL	162-3	ETHA	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW13S-01-040402	0204189-02A	NORMAL	162-3	ETHA	04/04/02	04/16/02	04/16/02	12	0	12
UG/L	JAX-47-MW15D-01-040802	0204266-02A	NORMAL	162-3	ETHA	04/08/20	04/17/02	04/17/02	-6,566	0	-6,566
UG/L	JAX-47-MW15S-01-040802	0204266-01A	NORMAL	162-3	ETHA	04/08/02	04/17/02	04/17/02	9	0	9
UG/L	JAX-47-MW16D-01-040502	0204189-08A	NORMAL	162-3	ETHA	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW16S-01-040502	0204189-09A	NORMAL	162-3	ETHA	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW17D-01-040402	0204189-04A	NORMAL	162-3	ETHA	04/04/02	04/16/02	04/16/02	12	0	12

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX-47-MW17S-01-040402	0204189-05A	NORMAL	162-3	ETHA	04/04/02	04/16/02	04/16/02	12	0	12
UG/L	JAX-47-MW18D-01-040502	0204189-10A	NORMAL	162-3	ETHA	04/05/02	04/16/02	04/16/02	11	0	11
UG/L	JAX-47-MW18S-01-040502	0204189-03A	NORMAL	162-3	ETHA	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW20S-01-040902	0204266-06A	NORMAL	162-3	ETHA	04/09/20	04/18/02	04/18/02	-6,566	0	-6,566
UG/L	JAX-47-NW13D-01-040402	0204189-01AA	NORMAL	162-3	ETHA	04/04/02	04/16/02	04/16/02	12	0	12
UG/L	JAX-47-USGS(D)-040902	0204266-04A	NORMAL	162-3	ETHA	04/09/20	04/17/02	04/17/02	-6,567	0	-6,567
UG/L	JAX-47-USGS(S)-040902	0204266-03A	NORMAL	162-3	ETHA	04/09/20	04/17/02	04/17/02	-6,567	0	-6,567
UG/L	JAX-47-536-MW03-01-0409	0204266-07A	NORMAL	162-3	ETHE	04/09/20	04/18/02	04/18/02	-6,566	0	-6,566
UG/L	JAX-47-MW10S-01-040902	0204266-05A	NORMAL	162-3	ETHE	04/09/20	04/18/02	04/18/02	-6,566	0	-6,566
UG/L	JAX-47-MW11D-01-040402	0204189-07A	NORMAL	162-3	ETHE	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW11S-01-040402	0204189-06A	NORMAL	162-3	ETHE	04/04/02	04/16/02	04/16/02	12	0	12
UG/L	JAX-47-MW13S-01-040402	0204189-02A	NORMAL	162-3	ETHE	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW15D-01-040802	0204266-02A	NORMAL	162-3	ETHE	04/08/02	04/17/02	04/17/02	9	0	9
UG/L	JAX-47-MW15S-01-040802	0204266-01A	NORMAL	162-3	ETHE	04/08/02	04/17/02	04/17/02	9	0	9
UG/L	JAX-47-MW16D-01-040502	0204189-08A	NORMAL	162-3	ETHE	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW16S-01-040502	0204189-09A	NORMAL	162-3	ETHE	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW17D-01-040402	0204189-04A	NORMAL	162-3	ETHE	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW17S-01-040402	0204189-05A	NORMAL	162-3	ETHE	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW18D-01-040502	0204189-10A	NORMAL	162-3	ETHE	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW18S-01-040502	0204189-03A	NORMAL	162-3	ETHE	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW20S-01-040902	0204266-06A	NORMAL	162-3	ETHE	04/09/20	04/18/02	04/18/02	-6,566	0	-6,566
UG/L	JAX-47-NW13D-01-040402	0204189-01AA	NORMAL	162-3	ETHE	04/04/02	04/16/02	04/16/02	12	0	12
UG/L	JAX-47-USGS(D)-040902	0204266-04A	NORMAL	162-3	ETHE	04/09/20	04/17/02	04/17/02	-6,567	0	-6,567
UG/L	JAX-47-USGS(S)-040902	0204266-03A	NORMAL	162-3	ETHE	04/09/20	04/17/02	04/17/02	-6,567	0	-6,567
UG/L	JAX-47-DUP01-040802	C2D090226004	NORMAL	162-3	HERB	04/08/20	04/10/02	04/16/02	-6,573	6	-6,567
UG/L	JAX-47-MW11D-01-040402	C2D090226011	NORMAL	162-3	HERB	04/04/20	04/10/02	04/17/02	-6,569	7	-6,562
UG/L	JAX-47-MW11S-01-040402	C2D090226010	NORMAL	162-3	HERB	04/04/20	04/10/02	04/17/02	-6,569	7	-6,562

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX-47-MW13D-01-040402	C2D090226008	NORMAL	162-3	HERB	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
UG/L	JAX-47-MW13S-01-040402	C2D090226009	NORMAL	162-3	HERB	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
UG/L	JAX-47-MW15D01-040802	C2D090226002	NORMAL	162-3	HERB	04/08/02	04/10/02	04/16/02	2	6	8
UG/L	JAX-47-MW15S-01-040802	C2D090226003	NORMAL	162-3	HERB	04/08/02	04/10/02	04/16/02	2	6	8
UG/L	JAX-47-MW16D-01-040502	C2D090226012	NORMAL	162-3	HERB	04/05/20	04/10/02	04/17/02	-6,570	7	-6,563
UG/L	JAX-47-MW16S-01-040502	C2D090226013	NORMAL	162-3	HERB	04/05/20	04/10/02	04/17/02	-6,570	7	-6,563
UG/L	JAX-47-MW17D-01-040402	C2D090226006	NORMAL	162-3	HERB	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
UG/L	JAX-47-MW17S-01-040402	C2D090226007	NORMAL	162-3	HERB	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
UG/L	JAX-47-MW18D-01-040502	C2D090226014	NORMAL	162-3	HERB	04/05/20	04/10/02	04/17/02	-6,570	7	-6,563
UG/L	JAX-47-MW18S-01-040502	C2D090226005	NORMAL	162-3	HERB	04/05/02	04/10/02	04/16/02	5	6	11
UG/L	JAX47-536-MW03-01-04090	C2D100272004	NORMAL	162-3	HERB	04/09/02	04/11/02	04/18/02	2	7	9
UG/L	JAX47-536-MW03-01-04090	C2D100272004	NORMAL	162-3	HERB	04/09/02	04/22/02	04/24/02	13	2	15
UG/L	JAX47-MW10S-01-040902	C2D100272002	NORMAL	162-3	HERB	04/09/02	04/11/02	04/18/02	2	7	9
UG/L	JAX47-MW20S-01-040902	C2D100272003	NORMAL	162-3	HERB	04/09/02	04/11/02	04/18/02	2	7	9
UG/L	JAX47-USGS(D)-040902	C2D100272005	NORMAL	162-3	HERB	04/09/02	04/11/02	04/18/02	2	7	9
UG/L	JAX47-USGS(S)-040902	C2D100272001	NORMAL	162-3	HERB	04/09/02	04/11/02	04/18/02	2	7	9
UG/L	JAX-47-MW13D-01-040402	WS0791-002	NORMAL	162-3	HG	04/04/20	04/16/20	04/19/20	12	3	15
UG/L	JAX-47-MW13S-01-040402	WS0791-003	NORMAL	162-3	HG	04/04/02	04/16/20	04/19/20	6,587	3	6,590
UG/L	JAX-47-USGS(D)-040902	WS0811-002	NORMAL	162-3	HG	04/09/20	04/16/20	04/19/20	7	3	10
UG/L	JAX-47-USGS(S)-040902	WS0811-001	NORMAL	162-3	HG	04/09/20	04/16/20	04/19/20	7	3	10
UG/L	JAX-47-536-MW03-01-0409	WS0811-005	NORMAL	162-3	M	04/09/02	04/13/20	04/14/20	6,579	1	6,580
UG/L	JAX-47-MW10S-01-040902	WS0811-003	NORMAL	162-3	M	04/09/20	04/13/20	04/14/20	4	1	5
UG/L	JAX-47-MW11D-01-040402	WS0791-008	NORMAL	162-3	M	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW11S-01-040402	WS0791-007	NORMAL	162-3	M	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW13D-01-040402	WS0791-002	NORMAL	162-3	M	04/04/20	04/13/20	04/23/20	9	10	19
UG/L	JAX-47-MW13S-01-040402	WS0791-003	NORMAL	162-3	M	04/04/20	04/13/20	04/23/20	9	10	19
UG/L	JAX-47-MW15D-01-040802	WS0800-003	NORMAL	162-3	M	04/08/02	04/13/20	04/14/20	6,580	1	6,581

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX-47-MW15S-01-040802	WS0800-002	NORMAL	162-3	M	04/08/02	04/13/20	04/14/20	6,580	1	6,581
UG/L	JAX-47-MW16D-01-040502	WS0791-009	NORMAL	162-3	M	04/05/20	04/13/20	04/14/20	8	1	9
UG/L	JAX-47-MW16S-01-040502	WS0791-010	NORMAL	162-3	M	04/05/20	04/13/20	04/14/20	8	1	9
UG/L	JAX-47-MW17D-01-040402	WS0791-005	NORMAL	162-3	M	04/04/02	04/13/20	04/14/20	6,584	1	6,585
UG/L	JAX-47-MW17S-01-040402	WS0791-006	NORMAL	162-3	M	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW18D-01-040502	WS0791-011	NORMAL	162-3	M	04/05/20	04/13/20	04/14/20	8	1	9
UG/L	JAX-47-MW18S-01-040502	WS0791-004	NORMAL	162-3	M	04/05/20	04/13/20	04/14/20	8	1	9
UG/L	JAX-47-MW20S-01-040902	WS0811-004	NORMAL	162-3	M	04/09/20	04/13/20	04/14/20	4	1	5
UG/L	JAX-47-USGS(D)-040902	WS0811-002	NORMAL	162-3	M	04/09/20	04/13/20	04/17/20	4	4	8
UG/L	JAX-47-USGS(S)-040902	WS0811-001	NORMAL	162-3	M	04/09/20	04/13/20	04/17/20	4	4	8
UG/L	JAX-47-536-MW03-01-0409	0204266-07A	NORMAL	162-3	METH	04/09/20	04/18/02	04/18/02	-6,566	0	-6,566
UG/L	JAX-47-MW10S-01-040902	0204266-05A	NORMAL	162-3	METH	04/09/02	04/18/02	04/18/02	9	0	9
UG/L	JAX-47-MW11D-01-040402	0204189-07A	NORMAL	162-3	METH	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW11S-01-040402	0204189-06A	NORMAL	162-3	METH	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW13S-01-040402	0204189-02A	NORMAL	162-3	METH	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW15D-01-040802	0204266-02A	NORMAL	162-3	METH	04/08/20	04/17/02	04/17/02	-6,566	0	-6,566
UG/L	JAX-47-MW15S-01-040802	0204266-01A	NORMAL	162-3	METH	04/08/02	04/17/02	04/17/02	9	0	9
UG/L	JAX-47-MW16D-01-040502	0204189-08A	NORMAL	162-3	METH	04/05/02	04/16/02	04/16/02	11	0	11
UG/L	JAX-47-MW16S-01-040502	0204189-09A	NORMAL	162-3	METH	04/05/02	04/16/02	04/16/02	11	0	11
UG/L	JAX-47-MW17D-01-040402	0204189-04A	NORMAL	162-3	METH	04/04/02	04/16/02	04/16/02	12	0	12
UG/L	JAX-47-MW17S-01-040402	0204189-05A	NORMAL	162-3	METH	04/04/20	04/16/02	04/16/02	-6,563	0	-6,563
UG/L	JAX-47-MW18D-01-040502	0204189-10A	NORMAL	162-3	METH	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW18S-01-040502	0204189-03A	NORMAL	162-3	METH	04/05/20	04/16/02	04/16/02	-6,564	0	-6,564
UG/L	JAX-47-MW20S-01-040902	0204266-06A	NORMAL	162-3	METH	04/09/20	04/18/02	04/18/02	-6,566	0	-6,566
UG/L	JAX-47-NW13D-01-040402	0204189-01AA	NORMAL	162-3	METH	04/04/02	04/16/02	04/16/02	12	0	12
UG/L	JAX-47-USGS(D)-040902	0204266-04A	NORMAL	162-3	METH	04/09/20	04/17/02	04/17/02	-6,567	0	-6,567
UG/L	JAX-47-USGS(S)-040902	0204266-03A	NORMAL	162-3	METH	04/09/02	04/17/02	04/17/02	8	0	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX-47-536-MW03-01-0409	WS0811-009	NORMAL	162-3	MF	04/09/20	04/13/20	04/14/20	4	1	5
UG/L	JAX-47-MW10S-01-040902	WS0811-007	NORMAL	162-3	MF	04/09/20	04/13/20	04/14/20	4	1	5
UG/L	JAX-47-MW11D-01-040402	WS0791-018	NORMAL	162-3	MF	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW11S-01-040402	WS0791-017	NORMAL	162-3	MF	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW13D-01-040402	WS0791-015	NORMAL	162-3	MF	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW13S-01-040402	WS0791-016	NORMAL	162-3	MF	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW15D-01-040802	WS0800-005	NORMAL	162-3	MF	04/08/20	04/13/20	04/14/20	5	1	6
UG/L	JAX-47-MW15S-01-040802	WS0800-004	NORMAL	162-3	MF	04/08/20	04/13/20	04/14/20	5	1	6
UG/L	JAX-47-MW16D-01-040502	WS0791-019	NORMAL	162-3	MF	04/05/20	04/13/20	04/14/20	8	1	9
UG/L	JAX-47-MW16S-01-040502	WS0791-020	NORMAL	162-3	MF	04/05/20	04/13/20	04/14/20	8	1	9
UG/L	JAX-47-MW17D-01-040402	WS0791-013	NORMAL	162-3	MF	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW17S-01-040402	WS0791-014	NORMAL	162-3	MF	04/04/20	04/13/20	04/14/20	9	1	10
UG/L	JAX-47-MW18D-01-040502	WS0791-021	NORMAL	162-3	MF	04/05/20	04/13/20	04/14/20	8	1	9
UG/L	JAX-47-MW18S-01-040502	WS0791-012	NORMAL	162-3	MF	04/05/20	04/13/20	04/14/20	8	1	9
UG/L	JAX-47-MW20S-01-040902	WS0811-008	NORMAL	162-3	MF	04/09/20	04/13/20	04/14/20	4	1	5
UG/L	JAX-47-USGS(D)-040902-F	WS0811-010	NORMAL	162-3	MF	04/09/20	04/13/20	04/14/20	4	1	5
UG/L	JAX-47-USGS(S)-040902-F	WS0811-006	NORMAL	162-3	MF	04/09/20	04/13/20	04/14/20	4	1	5
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	NH4	04/09/20	05/04/02	05/04/02	-6,550	0	-6,550
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	NH4	04/09/02	05/04/02	05/04/02	25	0	25
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	NH4	04/04/02	04/22/02	04/22/02	18	0	18
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	NH4	04/04/02	04/22/02	04/22/02	18	0	18
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	NH4	04/04/20	04/22/02	04/22/02	-6,557	0	-6,557
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	NH4	04/04/20	04/22/02	04/22/02	-6,557	0	-6,557
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	NH4	04/08/20	05/04/02	05/04/02	-6,549	0	-6,549
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	NH4	04/08/20	05/04/02	05/04/02	-6,549	0	-6,549
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	NH4	04/05/20	04/26/02	04/26/02	-6,554	0	-6,554
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	NH4	04/05/02	04/26/02	04/26/02	21	0	21

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	NH4	04/04/02	04/22/02	04/22/02	18	0	18
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	NH4	04/04/20	04/22/02	04/22/02	-6,557	0	-6,557
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	NH4	04/05/02	04/26/02	04/26/02	21	0	21
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	NH4	04/05/20	04/22/02	04/22/02	-6,558	0	-6,558
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	NH4	04/09/20	05/04/02	05/04/02	-6,550	0	-6,550
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	NH4	04/09/20	05/04/02	05/04/02	-6,550	0	-6,550
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	NH4	04/09/20	05/04/02	05/04/02	-6,550	0	-6,550
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	NTA	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	NTA	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	NTA	04/04/02	04/06/02	04/06/02	2	0	2
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	NTA	04/04/20	04/06/02	04/06/02	-6,573	0	-6,573
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	NTA	04/04/20	04/06/02	04/06/02	-6,573	0	-6,573
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	NTA	04/04/20	04/06/02	04/06/02	-6,573	0	-6,573
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	NTA	04/08/20	04/09/02	04/09/02	-6,574	0	-6,574
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	NTA	04/08/20	04/09/02	04/09/02	-6,574	0	-6,574
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	NTA	04/05/20	04/06/02	04/06/02	-6,574	0	-6,574
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	NTA	04/05/02	04/06/02	04/06/02	1	0	1
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	NTA	04/04/02	04/06/02	04/06/02	2	0	2
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	NTA	04/04/20	04/06/02	04/06/02	-6,573	0	-6,573
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	NTA	04/05/20	04/06/02	04/06/02	-6,574	0	-6,574
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	NTA	04/05/02	04/06/02	04/06/02	1	0	1
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	NTA	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	NTA	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	NTA	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	NTI	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	NTI	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	NTI	04/04/20	04/06/02	04/06/02	-6,573	0	-6,573

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	NTI	04/04/02	04/06/02	04/06/02	2	0	2
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	NTI	04/04/20	04/06/02	04/06/02	-6,573	0	-6,573
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	NTI	04/04/20	04/06/02	04/06/02	-6,573	0	-6,573
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	NTI	04/08/02	04/09/02	04/09/02	1	0	1
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	NTI	04/08/02	04/09/02	04/09/02	1	0	1
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	NTI	04/05/02	04/06/02	04/06/02	1	0	1
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	NTI	04/05/02	04/06/02	04/06/02	1	0	1
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	NTI	04/04/02	04/06/02	04/06/02	2	0	2
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	NTI	04/04/20	04/06/02	04/06/02	-6,573	0	-6,573
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	NTI	04/05/02	04/06/02	04/06/02	1	0	1
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	NTI	04/05/02	04/06/02	04/06/02	1	0	1
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	NTI	04/09/02	04/10/02	04/10/02	1	0	1
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	NTI	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	NTI	04/09/20	04/10/02	04/10/02	-6,574	0	-6,574
%	JAX-47-DUP01-040802	C2D090226004	NORMAL	162-3	OPEST	04/08/02	04/10/02	04/16/02	2	6	8
%	JAX-47-MW11D-01-040402	C2D090226011	NORMAL	162-3	OPEST	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
%	JAX-47-MW11S-01-040402	C2D090226010	NORMAL	162-3	OPEST	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
%	JAX-47-MW13D-01-040402	C2D090226008	NORMAL	162-3	OPEST	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
%	JAX-47-MW13S-01-040402	C2D090226009	NORMAL	162-3	OPEST	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
%	JAX-47-MW15D01-040802	C2D090226002	NORMAL	162-3	OPEST	04/08/02	04/10/02	04/16/02	2	6	8
%	JAX-47-MW15S-01-040802	C2D090226003	NORMAL	162-3	OPEST	04/08/20	04/10/02	04/16/02	-6,573	6	-6,567
UG/L	JAX-47-MW16D-01-040502	C2D090226012	NORMAL	162-3	OPEST	04/05/20	04/10/02	04/16/02	-6,570	6	-6,564
%	JAX-47-MW16S-01-040502	C2D090226013	NORMAL	162-3	OPEST	04/05/20	04/10/02	04/16/02	-6,570	6	-6,564
%	JAX-47-MW17D-01-040402	C2D090226006	NORMAL	162-3	OPEST	04/04/20	04/10/02	04/16/02	-6,569	6	-6,563
%	JAX-47-MW17S-01-040402	C2D090226007	NORMAL	162-3	OPEST	04/04/02	04/10/02	04/16/02	6	6	12
%	JAX-47-MW18D-01-040502	C2D090226014	NORMAL	162-3	OPEST	04/05/20	04/10/02	04/16/02	-6,570	6	-6,564
%	JAX-47-MW18S-01-040502	C2D090226005	NORMAL	162-3	OPEST	04/05/20	04/10/02	04/16/02	-6,570	6	-6,564

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	JAX47-536-MW03-01-04090	C2D100272004	NORMAL	162-3	OPEST	04/09/02	04/12/02	04/16/02	3	4	7
%	JAX47-MW10S-01-040902	C2D100272002	NORMAL	162-3	OPEST	04/09/02	04/12/02	04/16/02	3	4	7
%	JAX47-MW20S-01-040902	C2D100272003	NORMAL	162-3	OPEST	04/09/02	04/12/02	04/16/02	3	4	7
%	JAX47-USGS(D)-040902	C2D100272005	NORMAL	162-3	OPEST	04/09/02	04/12/02	04/16/02	3	4	7
%	JAX47-USGS(S)-040902	C2D100272001	NORMAL	162-3	OPEST	04/09/02	04/12/02	04/15/02	3	3	6
%	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	OS	04/04/02	04/10/20	04/22/20	6,581	12	6,593
UG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	OS	04/04/20	04/10/20	04/22/20	6	12	18
%	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	OS	04/09/20	04/15/20	04/19/20	6	4	10
%	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	OS	04/09/20	04/15/20	04/19/20	6	4	10
UG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	OV	04/09/20	04/10/20	04/10/20	1	0	1
UG/L	JAX-47-DUP01-040802	WS0800-1	NORMAL	162-3	OV	04/08/20	04/10/20	04/10/20	2	0	2
UG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	OV	04/09/20	04/10/20	04/10/20	1	0	1
UG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	OV	04/04/02	04/09/20	04/09/20	6,580	0	6,580
UG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	OV	04/04/20	04/09/20	04/09/20	5	0	5
UG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	OV	04/04/02	04/08/20	04/08/20	6,579	0	6,579
UG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	OV	04/04/20	04/08/20	04/08/20	4	0	4
UG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	OV	04/08/20	04/10/20	04/10/20	2	0	2
UG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	OV	04/08/20	04/10/20	04/10/20	2	0	2
UG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	OV	04/05/02	04/09/20	04/09/20	6,579	0	6,579
UG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	OV	04/05/20	04/09/20	04/09/20	4	0	4
UG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	OV	04/04/20	04/08/20	04/08/20	4	0	4
UG/L	JAX-47-MW17D-01-040402	WS0791-5DL	NORMAL	162-3	OV	04/04/20	04/09/20	04/09/20	5	0	5
UG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	OV	04/04/20	04/08/20	04/08/20	4	0	4
UG/L	JAX-47-MW17S-01-040402	WS0791-6DL	NORMAL	162-3	OV	04/04/20	04/09/20	04/09/20	5	0	5
UG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	OV	04/05/02	04/09/20	04/09/20	6,579	0	6,579
UG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	OV	04/05/02	04/08/20	04/08/20	6,578	0	6,578
UG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	OV	04/09/02	04/10/20	04/10/20	6,576	0	6,576

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX-47-TB040502	WS0791-1	NORMAL	162-3	OV	04/05/20	04/08/20	04/08/20	3	0	3
UG/L	JAX-47-TB040802	WS0800-6	NORMAL	162-3	OV	04/08/20	04/10/20	04/10/20	2	0	2
UG/L	JAX-47-TB040902	WS0811-11	NORMAL	162-3	OV	04/09/20	04/10/20	04/10/20	1	0	1
UG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	OV	04/09/20	04/10/20	04/10/20	1	0	1
UG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	OV	04/09/20	04/10/20	04/10/20	1	0	1
UG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	PCB	04/04/20	04/10/20	04/16/20	6	6	12
UG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	PCB	04/04/20	04/10/20	04/16/20	6	6	12
UG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	PCB	04/09/02	04/12/20	04/16/20	6,578	4	6,582
UG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	PCB	04/09/20	04/12/20	04/16/20	3	4	7
UG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	PEST	04/09/20	04/12/20	04/23/20	3	11	14
UG/L	JAX-47-DUP01-040802	WS0800-1	NORMAL	162-3	PEST	04/08/02	04/10/20	04/16/20	6,577	6	6,583
UG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	PEST	04/09/20	04/12/20	04/18/20	3	6	9
UG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	PEST	04/04/02	04/10/20	04/16/20	6,581	6	6,587
UG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	PEST	04/04/02	04/10/20	04/19/20	6,581	9	6,590
UG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	PEST	04/04/20	04/10/20	04/16/20	6	6	12
UG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	PEST	04/04/20	04/10/20	04/22/20	6	12	18
UG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	PEST	04/08/20	04/10/20	04/16/20	2	6	8
UG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	PEST	04/08/20	04/10/20	04/16/20	2	6	8
UG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	PEST	04/05/20	04/10/20	04/16/20	5	6	11
UG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	PEST	04/05/02	04/10/20	04/16/20	6,580	6	6,586
UG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	PEST	04/04/02	04/10/20	04/16/20	6,581	6	6,587
UG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	PEST	04/04/02	04/10/20	04/19/20	6,581	9	6,590
UG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	PEST	04/05/20	04/10/20	04/16/20	5	6	11
UG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	PEST	04/05/20	04/10/20	04/16/20	5	6	11
UG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	PEST	04/09/20	04/12/20	04/18/20	3	6	9
UG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	PEST	04/09/02	04/12/20	04/18/20	6,578	6	6,584
UG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	PEST	04/09/20	04/12/20	04/18/20	3	6	9

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	SO4	04/09/20	04/25/02	04/25/02	-6,559	0	-6,559
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	SO4	04/09/02	04/25/02	04/25/02	16	0	16
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	SO4	04/04/20	04/23/02	04/23/02	-6,556	0	-6,556
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	SO4	04/04/02	04/23/02	04/23/02	19	0	19
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	SO4	04/04/20	04/18/02	04/18/02	-6,561	0	-6,561
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	SO4	04/04/02	04/18/02	04/18/02	14	0	14
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	SO4	04/08/20	04/25/02	04/25/02	-6,558	0	-6,558
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	SO4	04/08/20	04/25/02	04/25/02	-6,558	0	-6,558
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	SO4	04/05/20	04/23/02	04/23/02	-6,557	0	-6,557
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	SO4	04/05/20	04/23/02	04/23/02	-6,557	0	-6,557
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	SO4	04/04/20	04/23/02	04/23/02	-6,556	0	-6,556
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	SO4	04/04/02	04/23/02	04/23/02	19	0	19
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	SO4	04/05/02	04/23/02	04/23/02	18	0	18
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	SO4	04/05/20	04/23/02	04/23/02	-6,557	0	-6,557
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	SO4	04/09/20	04/25/02	04/25/02	-6,559	0	-6,559
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	SO4	04/09/20	04/25/02	04/25/02	-6,559	0	-6,559
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	SO4	04/09/20	04/25/02	04/25/02	-6,559	0	-6,559
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	TKN	04/09/20	04/29/02	05/02/02	-6,555	3	-6,552
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	TKN	04/09/20	04/29/02	05/02/02	-6,555	3	-6,552
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	TKN	04/04/20	04/16/02	04/18/02	-6,563	2	-6,561
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	TKN	04/04/20	04/16/02	04/18/02	-6,563	2	-6,561
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	TKN	04/04/02	04/16/02	04/18/02	12	2	14
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	TKN	04/04/20	04/16/02	04/18/02	-6,563	2	-6,561
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	TKN	04/08/02	04/22/02	04/23/02	14	1	15
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	TKN	04/08/20	04/29/02	05/02/02	-6,554	3	-6,551
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	TKN	04/05/20	04/16/02	04/18/02	-6,564	2	-6,562
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	TKN	04/05/20	04/16/02	04/18/02	-6,564	2	-6,562

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	TKN	04/04/02	04/16/02	04/18/02	12	2	14
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	TKN	04/04/02	04/16/02	04/18/02	12	2	14
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	TKN	04/05/20	04/16/02	04/18/02	-6,564	2	-6,562
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	TKN	04/05/02	04/16/02	04/18/02	11	2	13
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	TKN	04/09/20	04/29/02	05/02/02	-6,555	3	-6,552
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	TKN	04/09/02	04/29/02	05/02/02	20	3	23
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	TKN	04/09/20	04/29/02	05/02/02	-6,555	3	-6,552
MG/L	JAX-47-536-MW03-01-0409	WS0811-5	NORMAL	162-3	TOC	04/09/02	04/29/02	04/29/02	20	0	20
MG/L	JAX-47-MW10S-01-040902	WS0811-3	NORMAL	162-3	TOC	04/09/20	04/29/02	04/29/02	-6,555	0	-6,555
MG/L	JAX-47-MW11D-01-040402	WS0791-8	NORMAL	162-3	TOC	04/04/02	04/27/02	04/27/02	23	0	23
MG/L	JAX-47-MW11S-01-040402	WS0791-7	NORMAL	162-3	TOC	04/04/20	04/27/02	04/27/02	-6,552	0	-6,552
MG/L	JAX-47-MW13D-01-040402	WS0791-2	NORMAL	162-3	TOC	04/04/20	04/27/02	04/27/02	-6,552	0	-6,552
MG/L	JAX-47-MW13S-01-040402	WS0791-3	NORMAL	162-3	TOC	04/04/20	04/27/02	04/27/02	-6,552	0	-6,552
MG/L	JAX-47-MW15D-01-040802	WS0800-3	NORMAL	162-3	TOC	04/08/20	04/27/02	04/27/02	-6,556	0	-6,556
MG/L	JAX-47-MW15S-01-040802	WS0800-2	NORMAL	162-3	TOC	04/08/20	04/27/02	04/27/02	-6,556	0	-6,556
MG/L	JAX-47-MW16D-01-040502	WS0791-9	NORMAL	162-3	TOC	04/05/20	04/27/02	04/27/02	-6,553	0	-6,553
MG/L	JAX-47-MW16S-01-040502	WS0791-10	NORMAL	162-3	TOC	04/05/20	04/27/02	04/27/02	-6,553	0	-6,553
MG/L	JAX-47-MW17D-01-040402	WS0791-5	NORMAL	162-3	TOC	04/04/02	04/27/02	04/27/02	23	0	23
MG/L	JAX-47-MW17S-01-040402	WS0791-6	NORMAL	162-3	TOC	04/04/20	04/27/02	04/27/02	-6,552	0	-6,552
MG/L	JAX-47-MW18D-01-040502	WS0791-11	NORMAL	162-3	TOC	04/05/02	04/27/02	04/27/02	22	0	22
MG/L	JAX-47-MW18S-01-040502	WS0791-4	NORMAL	162-3	TOC	04/05/20	04/27/02	04/27/02	-6,553	0	-6,553
MG/L	JAX-47-MW20S-01-040902	WS0811-4	NORMAL	162-3	TOC	04/09/20	04/29/02	04/29/02	-6,555	0	-6,555
MG/L	JAX-47-USGS(D)-040902	WS0811-2	NORMAL	162-3	TOC	04/09/20	04/29/02	04/29/02	-6,555	0	-6,555
MG/L	JAX-47-USGS(S)-040902	WS0811-1	NORMAL	162-3	TOC	04/09/20	04/29/02	04/29/02	-6,555	0	-6,555

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE CTO162 NAS JACKSONVILLE
SDG: CTO162-3
TASK ORDER MANAGER: GREG ROOF

Sample Receipt

The following samples were received on April 6, 9 and 10, 2002 and were logged in under Katahdin Analytical Services work order numbers WS0791, WS0800, WS0811 for a hardcopy due date of May 8, 2002.

KATAHDIN Sample No.	TTNUS Sample Identification
WS0791-1	JAX-47-TB040502
WS0791-2	JAX-47-MW13D-01-040402
WS0791-3	JAX-47-MW13S-01-040402
WS0791-4	JAX-47-MW18S-01-040502
WS0791-5	JAX-47-MW17D-01-040402
WS0791-6	JAX-47-MW17S-01-040402
WS0791-7	JAX-47-MW11S-01-040402
WS0791-8	JAX-47-MW11D-01-040402
WS0791-9	JAX-47-MW16D-01-040502
WS0791-10	JAX-47-MW16S-01-040502
WS0791-11	JAX-47-MW18D-01-040502
WS0791-12	JAX-47-MW18S-01-040502-F
WS0791-13	JAX-47-MW17D-01-040402-F
WS0791-14	JAX-47-MW17S-01-040402-F
WS0791-15	JAX-47-MW13D-01-040402-F
WS0791-16	JAX-47-MW13S-01-040402-F
WS0791-17	JAX-47-MW11S-01-040402-F
WS0791-18	JAX-47-MW11D-01-040402-F
WS0791-19	JAX-47-MW16D-01-040502-F
WS0791-20	JAX-47-MW16S-01-040502-F
WS0791-21	JAX-47-MW18D-01-040502-F
WS0800-1	JAX-47-DUP01-040802
WS0800-2	JAX-47-MW15S-01-040802
WS0800-3	JAX-47-MW15D-01-040802
WS0800-4	JAX-47-MW15S-01-040802-F
WS0800-5	JAX-47-MW15D-01-040802-F
WS0800-6	JAX-47-TB040802
WS0811-1	JAX-47-USGS (S) -040902
WS0811-2	JAX-47-USGS (D) -040902
WS0811-3	JAX-47-MW10S-01-040902
WS0811-4	JAX-47-MW20S-01-040902
WS0811-5	JAX-47-536-MW03-01-040902

WS0811-6	JAX-47-USGS (S) -040902-F
WS0811-7	JAX-47-MW10S-01-040902-F
WS0811-8	JAX-47-MW20S-01-040902-F
WS0811-9	JAX-47-536-MW03-01-040902-F
WS0811-10	JAX-47-USGS (D) –040902-F
WS0811-11	JAX-47-TB040902

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Volatile Organic Analysis

Twenty-one aqueous samples were received by the Katahdin GC/MS laboratory on April 6, 9, and 10, 2002, and were specified to be analyzed and quantitated for a client-specified list of analytes in accordance with SW-846 method 8260B.

Analyses for this SDG were performed on the 5972-Z instrument.

Batch QC (VBLK and LCS) was performed in each twelve-hour window. The LCS QC samples were spiked with the entire list of compounds quantitated for at 50 ppb. Matrix spike/matrix spike duplicate pairs were analyzed on samples WS0791-7 and WS0800-3.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and matrix spikes for these samples are method advisory limits only. These limits are not necessarily used to determine corrective actions.

The following deviations were noted in the QC samples:

LCS ID	Analyte	% Recovery/RPD	QC Limits
WS0791-7MS/MSD	acetone	39/39	60-140
WS0800-3MS/MSD	acetone	29/52	60-140
WS0800-3MS	2-hexanone	58	60-140
WS0800-3MS	2-butanone	50	60-140

Numerous %RPD values were outside of QC limits in the MS/MSD pairs.

Initial analyses of samples WS0791-5 and –6 yielded target analyte concentrations over the upper limit of the calibration curve. Reanalyses occurred at 1:5 dilutions. Both sets of data for each sample are included in the data package.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8260B narrows this 20% maximum to 15%.

In the calibration curve analyzed for this SDG, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 8.3%, the curve was acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the data package.

The volatile organic staff noted no other protocol deviations.

Semivolatile Organic Extraction and Analysis

Four aqueous samples were received by the Katahdin Analytical Services GC/MS laboratory on April 6 and 10, 2002 for extraction and analysis for a client-specified list of analytes in accordance with USEPA method 8270C.

The samples were extracted following method 3520 on April 10 and 15. A laboratory control spike/laboratory control spike duplicate pair was extracted in each batch.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and matrix spikes for these samples are method advisory limits only. These limits are not necessarily used to determine corrective actions.

Numerous analytes did not meet the nominal limits of 70%-130% in the LCS/LCSD pairs.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8270C narrows this 20% maximum to 15%.

In the calibration curve analyzed for this workorder, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 9.9%, the curve was acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" by the data system. All manual integrations have been dated and initialed by the responsible analyst. Copies of each manual integration are included in the data package. All manual integrations have been reviewed and approved by the GC/MS supervisor.

The semivolatiles organic staff noted no other protocol deviations.

GC Laboratory

Samples WS0791-2 through -11 were received on April 6, 2002. Samples WS0800-1 through -3 were received on April 9, 2002. Samples WS0811-1 through -5 were received on April 10, 2002. All samples were analyzed for pesticides according to SW846 8081A and/or polychlorinated biphenyls (PCBs) according to SW846 method 8082. Sample WS0800-3 was used for the pesticide matrix spike (MS) and matrix spike duplicate (MSD). The samples were extracted and analyzed within holding time, and all QC criteria were acceptable with the following comments:

Pesticide Analysis

The laboratory control sample (LCS) LCP2032 had high recoveries for the extraction surrogate DCB on both channels, which were outside of the laboratory established acceptance limits. The recoveries for the other surrogate TCMX were acceptable; therefore, the samples were not reanalyzed.

Sample WS0791-7 had high recoveries for the extraction surrogate TCMX on both channels, which were outside of the laboratory established acceptance limits. This was due to sample matrix interference. The recoveries for DCB were acceptable; therefore, the sample was not reanalyzed.

Sample WS0800-3MS had recoveries for alpha-BHC and Aldrin that were low and outside of the laboratory established acceptance limits. The recoveries for these analytes were acceptable in sample WS0800-3MSD. Since the associated LCS was acceptable, the deviations are likely a matrix effect. Therefore, no corrective action was taken.

Samples WS0791-3, -6, -7 and WS0811-5 were all run at a dilution to bring one or more of the analytes into calibration range. The surrogates were diluted out of range for WS0791-3 and WS0811-5.

The closing calibration verification standard (CV) (file 8SD1128) had high responses for Heptachlor epoxide, Dieldrin, Endrin, Endrin aldehyde and Endrin ketone on channel A, which resulted in %D's that were outside of the method acceptance limit of 15%. The associated samples may be biased high for the aforementioned analytes on channel A.

The closing CV (files 8SD1154 and 8SD2154) had a high response for Heptachlor, 4,4'-DDE, 4,4'-DDD, Endrin ketone and Methoxychlor on channel A, and a low response for 4,4'-DDT and Endosulfan sulfate on channel B. This resulted in %D's that were outside of the method acceptance limit of 15%. The associated samples may be biased accordingly for the aforementioned analytes.

The closing CV (files 8SD1183 and 8SD2183) had a high response for Endrin ketone on both channels. This resulted in %D's that were outside of the method acceptance limit of 15%. The associated samples may be biased accordingly for the aforementioned analyte.

The closing CV (files 8SD1205 and 8SD2205) had a high response for Endrin ketone on both channels. This resulted in %D's that were outside of the method acceptance limit of 15%. The associated samples may be biased accordingly for the aforementioned analyte.

The opening CV (files 8SD1208 and 8SD2208) had a high response for Endrin ketone channel B and a low response for Methoxychlor on channel A. This resulted in %D's that were outside of the method acceptance limit of 15%. The associated samples may be biased accordingly for the aforementioned analytes.

The closing CV (files 8SD1217) had a high response for Endrin ketone and 4,4'-DDD on channel A. This resulted in %D's that were outside of the method acceptance limit of 15%. The associated samples may be biased accordingly for the aforementioned analytes.

PCB analysis

The opening CV (file 6SD2092) had high responses for the surrogate DCB and Aroclor 1260 on channel B, which resulted in %D's that were outside of the method acceptance limit of 15%. All responses were acceptable on channel A. The associated samples may be biased high for these analytes on channel B.

The closing CV (files 6SD1108 and 6SD2108) had high responses for DCB, TCMX and Aroclor 1260 on channel A and high responses for all analytes on channel B, which resulted in %D's that were outside of the method acceptance limit of 15%. The associated samples may be biased high for these analytes.

There were no other method deviations or observations noted by the GC laboratory staff.

Metals Analysis

Katahdin SDG CTO162-3 samples were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP) and Inductively-Coupled Plasma Mass Spectrometric Analysis (ICP-MS)

Aqueous-matrix Katahdin Sample Nos. WS0800-(2-5) and WS0811-(1-10) were digested for ICP analysis on 04/13/02 (QC Batch SD13ICW0). Due to laboratory error, Katahdin Sample No. WS0800-3 was not chosen for matrix QC analysis as was requested. Instead, Katahdin Sample No. WS0811-10 was prepared with duplicate matrix-spiked aliquots.

Aqueous-matrix Katahdin Sample Nos. WS0791-(2-21) were digested for ICP analysis on 04/13/02 (QC Batch SD13ICW2). Katahdin Sample No. WS0791-21 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of Katahdin SDG CTO162-3 sample digestates were performed in accordance with USEPA Method 6010, using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer and a TJA ICAP 61E ICP spectrometer. ICP-MS analyses of Katahdin SDG CTO162-3 sample digestates

were performed in accordance with USEPA Method 6020, using an Agilent 7500 ICP-MS spectrometer. All samples were analyzed within holding times and all QC criteria were met with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample Nos. WS0791-(2,3) and WS0811-(1,2) were digested for mercury analysis on 0416/02 (QC Batch SD16HGW1) in accordance with USEPA Method 7470.

Mercury analyses of Katahdin SDG CTO162-3 sample digestates were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

The recoveries for the matrix spike aliquots of Katahdin Sample No. WS0791-21 and WS0811-10 were within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for all analytes.

The matrix spike duplicate precision of Katahdin Sample Nos. WS0791-21 and WS0811-10 were within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for all analytes.

The serial dilution analyses of Katahdin Sample Nos. WS0791-21 and WS0811-10 were within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for all analytes.

Additional Review

Katahdin Sample Nos. WS0791-(3,16) are labeled as total and dissolved samples from the same site. However, several analytes were found to be higher in the dissolved aliquot (WS0791-16) than in the total aliquot (WS0791-3).

Wet Chemistry Analysis

Samples were received on April 6, April 9, and April 10, 2002 and logged in as work orders WS0791, WS0800, and WS0811. Analyses for Chemical Oxygen demand, Nitrate, Nitrite, Total Organic Carbon, Sulfate, Chloride, Total Kjeldahl Nitrogen, Ammonia, Biochemical Oxygen Demand, and Sulfide were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979, Revised 1983.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limit (MDL). These levels are indicated in the result field of the analytical report. For hits that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL), a "J" flag has been used.

All analyses were performed within analytical hold time. All quality control criteria were met with the following exceptions:

Due to instrument problems samples in work orders WS0791, WS0800, and WS0811 were analyzed by method 353.2 instead of method 300.0 for Nitrate and Nitrite.

The result for the Total Kjeldahl Nitrogen method blank associated with sample WS0800-3 was 0.124 mg/L, which is above Katahdin Analytical Services' Practical Quantitation Limit (PQL) of 0.10 mg/L. The result for the sample WS0800-3 was below the PQL, therefore, the result was reported.

The following Matrix Spike recoveries were outside of the acceptance range:

Analyte	Sample Spiked	Percent Recovery (%)
Nitrate	WS0791-11	61
Nitrite	WS0791-11	74
Sulfate	WS0791-3	69
Sulfate	WS0800-2	153
Sulfide	WS0811-1	50

The acceptance range for these Wet Chemistry parameters is 75-125%. Since all other QC criteria were met the data was reported.

No other deviations were noted by the Wet Chemistry group.

Subcontracted Analysis

Analyses for Methane/Ethane/Ethene, Organophosphorus Pesticides and Herbicides were performed by a subcontract laboratory. Please refer to the sections of the data package titled "Subcontracted Data".

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager, Quality Assurance Officer, or the Data Management Supervisor as verified by the following signature.

María Crouch
05/10/02
María Crouch
Data Management Supervisor

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWSD13ICW0

Matrix: WATER **SDG Name:** CTO162-3

QC Batch ID: SD13ICW0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	RESULT	C
ALUMINUM	-135.850	B
ANTIMONY	-4.260	B
ARSENIC	2.150	U
BARIUM	0.240	U
BERYLLIUM	-0.650	B
CADMIUM	0.350	U
CALCIUM	18.780	U
CHROMIUM	0.840	U
COBALT	0.680	U
COPPER	1.480	B
IRON	13.750	U
LEAD	1.370	U
MAGNESIUM	19.830	U
MANGANESE	0.130	U
NICKEL	0.930	U
POTASSIUM	388.090	U
SELENIUM	3.420	U
SILVER	1.250	B
SODIUM	25.550	B
THALLIUM	0.304	B
VANADIUM	0.580	U
ZINC	-0.950	B

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWSD13ICW2

Matrix: WATER **SDG Name:** CTO162-3

QC Batch ID: SD13ICW2

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	RESULT	C
ALUMINUM	-144.760	B
ANTIMONY	-5.270	B
ARSENIC	2.150	U
BARIUM	0.240	U
BERYLLIUM	0.680	B
CADMIUM	0.350	U
CALCIUM	18.780	U
CHROMIUM	0.840	U
COBALT	0.680	U
COPPER	1.530	B
IRON	13.750	U
LEAD	1.370	U
MAGNESIUM	19.830	U
MANGANESE	0.150	B
NICKEL	0.930	U
POTASSIUM	388.090	U
SELENIUM	3.420	U
SILVER	0.940	U
SODIUM	41.400	B
THALLIUM	-0.017	B
VANADIUM	0.580	U
ZINC	-1.220	B

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWSD16HGW1

Matrix: WATER **SDG Name:** CTO162-3

QC Batch ID: SD16HGW1

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	RESULT	C
MERCURY	0.091	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO 62-3

SAMPLE: ICB

File: ASD14A Apr 14, 2002 15:30

Analyte	Result	C
ALUMINUM	16.60	U
ANTIMONY	-5.67	B
ARSENIC	2.15	U
BARIUM	0.24	U
BERYLLIUM	0.28	U
CADMIUM	0.35	U
CALCIUM	5.49	U
CHROMIUM	0.84	U
COBALT	0.68	U
COPPER	0.85	U
IRON	13.75	U
LEAD	1.37	U
MAGNESIUM	5.58	U
MANGANESE	0.13	U
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	0.94	U
VANADIUM	0.58	U
ZINC	-0.57	B

SAMPLE: CCB

File: ASD14A Apr 14, 2002 16:24

Analyte	Result	C
ALUMINUM	16.60	U
ANTIMONY	-3.28	B
ARSENIC	2.15	U
BARIUM	0.24	U
BERYLLIUM	0.28	U
CADMIUM	0.35	U
CALCIUM	5.49	U
CHROMIUM	1.00	B
COBALT	0.68	U
COPPER	0.85	U
IRON	13.75	U
LEAD	1.37	U
MAGNESIUM	12.86	B
MANGANESE	0.13	U
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	0.94	U
VANADIUM	0.58	U
ZINC	-0.40	B

SAMPLE: CCB

File: ASD14A Apr 14, 2002 17:44

Analyte	Result	C
ALUMINUM	16.60	U
ANTIMONY	2.62	U
ARSENIC	2.15	U
BARIUM	0.26	B
BERYLLIUM	0.39	B
CADMIUM	-0.36	B
CALCIUM	10.83	B
CHROMIUM	1.08	B
COBALT	0.68	U
COPPER	0.85	U
IRON	13.75	U
LEAD	1.37	U
MAGNESIUM	20.27	B
MANGANESE	0.25	B
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	1.69	B
VANADIUM	0.58	U
ZINC	0.36	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: CCB
File: ASD14A Apr 14, 2002 19:04

Analyte	Result	C
ALUMINUM	-18.34	B
ANTIMONY	2.62	U
ARSENIC	2.15	U
BARIUM	0.24	U
BERYLLIUM	0.44	B
CADMIUM	0.35	U
CALCIUM	18.56	B
CHROMIUM	0.84	U
COBALT	0.68	U
COPPER	1.19	B
IRON	13.75	U
LEAD	1.37	U
MAGNESIUM	16.23	B
MANGANESE	0.15	B
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	0.94	U
VANADIUM	0.58	U
ZINC	-0.37	B

SAMPLE: CCB
File: ASD14A Apr 14, 2002 20:24

Analyte	Result	C
ALUMINUM	-50.44	B
ANTIMONY	-5.35	B
ARSENIC	2.15	U
BARIUM	0.24	U
BERYLLIUM	0.45	B
CADMIUM	0.35	U
CALCIUM	8.89	B
CHROMIUM	0.84	U
COBALT	0.68	U
COPPER	1.95	B
IRON	13.75	U
LEAD	1.37	U
MAGNESIUM	5.58	U
MANGANESE	0.13	U
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	0.94	U
VANADIUM	0.93	B
ZINC	0.36	U

SAMPLE: CCB
File: ASD14A Apr 14, 2002 21:44

Analyte	Result	C
ALUMINUM	-65.65	B
ANTIMONY	-3.11	B
ARSENIC	2.15	U
BARIUM	0.24	U
BERYLLIUM	0.57	B
CADMIUM	0.35	U
CALCIUM	14.17	B
CHROMIUM	0.84	U
COBALT	0.71	B
COPPER	1.21	B
IRON	13.79	B
LEAD	1.37	U
MAGNESIUM	5.58	U
MANGANESE	0.13	U
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	0.94	U
VANADIUM	0.87	B
ZINC	0.36	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: CCB
File: ASD14A Apr 14, 2002 23:04

Analyte	Result	C
ALUMINUM	-71.95	B
ANTIMONY	-2.96	B
ARSENIC	2.15	U
BARIUM	0.24	U
BERYLLIUM	0.68	B
CADMIUM	0.35	U
CALCIUM	15.13	B
CHROMIUM	0.84	U
COBALT	0.68	U
COPPER	1.44	B
IRON	13.75	U
LEAD	1.37	U
MAGNESIUM	5.58	U
MANGANESE	0.13	U
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	0.94	U
VANADIUM	0.80	B
ZINC	0.36	U

SAMPLE: CCB
File: ASD14A Apr 15, 2002 0:25

Analyte	Result	C
ALUMINUM	-80.03	B
ANTIMONY	2.62	U
ARSENIC	2.15	U
BARIUM	0.24	U
BERYLLIUM	0.61	B
CADMIUM	0.35	U
CALCIUM	16.73	B
CHROMIUM	0.84	U
COBALT	0.68	U
COPPER	2.06	B
IRON	13.75	U
LEAD	1.37	U
MAGNESIUM	5.58	U
MANGANESE	0.13	U
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	0.94	U
VANADIUM	0.58	U
ZINC	-0.75	B

SAMPLE: CCB
File: ASD14A Apr 15, 2002 1:45

Analyte	Result	C
ALUMINUM	-87.27	B
ANTIMONY	2.62	U
ARSENIC	2.15	U
BARIUM	0.24	U
BERYLLIUM	0.61	B
CADMIUM	0.35	U
CALCIUM	19.81	B
CHROMIUM	0.84	U
COBALT	0.75	B
COPPER	1.77	B
IRON	13.75	U
LEAD	1.37	U
MAGNESIUM	5.58	U
MANGANESE	0.13	U
NICKEL	0.93	U
SELENIUM	3.42	U
SILVER	0.94	U
VANADIUM	0.61	B
ZINC	-0.55	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: ICB

File: BSD14A Apr 14, 2002 15:01

Analyte	Result	C
ALUMINUM	15.60	U
CALCIUM	18.78	U
IRON	6.91	U
MAGNESIUM	19.83	U
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	13.10	U

SAMPLE: CCB

File: BSD14A Apr 14, 2002 16:16

Analyte	Result	C
ALUMINUM	24.87	B
CALCIUM	18.78	U
IRON	10.43	B
MAGNESIUM	36.80	B
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	13.10	U

SAMPLE: CCB

File: BSD14A Apr 14, 2002 17:24

Analyte	Result	C
ALUMINUM	40.43	B
CALCIUM	47.99	B
IRON	19.65	B
MAGNESIUM	51.91	
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	21.09	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: CCB
File: BSD14A Apr 14, 2002 18:32

Analyte	Result	C
ALUMINUM	44.56	B
CALCIUM	56.46	
IRON	22.40	B
MAGNESIUM	60.47	
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	27.19	B

SAMPLE: CCB
File: BSD14A Apr 14, 2002 19:39

Analyte	Result	C
ALUMINUM	45.66	B
CALCIUM	53.58	
IRON	25.52	B
MAGNESIUM	53.31	
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	26.40	B

SAMPLE: CCB
File: BSD14A Apr 14, 2002 20:47

Analyte	Result	C
ALUMINUM	15.60	U
CALCIUM	18.78	U
IRON	8.35	B
MAGNESIUM	23.30	B
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	17.78	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: CCB
File: BSD14A Apr 14, 2002 21:55

Analyte	Result	C
ALUMINUM	15.60	U
CALCIUM	19.48	B
IRON	8.95	B
MAGNESIUM	20.65	B
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	13.33	B

SAMPLE: CCB
File: BSD14A Apr 14, 2002 23:02

Analyte	Result	C
ALUMINUM	15.60	U
CALCIUM	25.59	B
IRON	12.13	B
MAGNESIUM	28.14	B
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	18.42	B

SAMPLE: CCB
File: BSD14A Apr 15, 2002 0:10

Analyte	Result	C
ALUMINUM	25.79	B
CALCIUM	40.15	B
IRON	16.66	B
MAGNESIUM	43.92	B
MANGANESE	0.88	U
POTASSIUM	388.09	U
SODIUM	22.53	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: ICB

File: DSD19A Apr 19, 2002 10:49

Analyte	Result	C
MERCURY	0.03	U

SAMPLE: CCB

File: DSD19A Apr 19, 2002 11:02

Analyte	Result	C
MERCURY	0.03	U

SAMPLE: CCB

File: DSD19A Apr 19, 2002 11:54

Analyte	Result	C
MERCURY	0.08	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: CCB

File: DSD19A Apr 19, 2002 12:46

Analyte	Result	C
MERCURY	0.04	B

SAMPLE: CCB

File: DSD19A Apr 19, 2002 13:37

Analyte	Result	C
MERCURY	0.03	U

SAMPLE: CCB

File: DSD19A Apr 19, 2002 14:28

Analyte	Result	C
MERCURY	0.06	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: CCB

File: DSD19A Apr 19, 2002 15:11

Analyte	Result	C
MERCURY	0.09	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: ICB

File: FSD17F Apr 17, 2002 16:26

Analyte	Result	C
ALUMINUM	1.03	U
CALCIUM	2.62	U
IRON	1.53	U
MAGNESIUM	1.34	B
MOLYBDENUM	0.23	B
POTASSIUM	3.62	U
SODIUM	4.71	U
THALLIUM	0.13	B

SAMPLE: CCB

File: FSD17F Apr 17, 2002 17:20

Analyte	Result	C
ALUMINUM	5.21	B
CALCIUM	3.60	B
IRON	4.23	B
MAGNESIUM	6.09	B
MOLYBDENUM	1.31	B
POTASSIUM	5.55	B
SODIUM	8.97	B
THALLIUM	0.12	B

SAMPLE: CCB

File: FSD17F Apr 17, 2002 18:52

Analyte	Result	C
ALUMINUM	1.03	U
CALCIUM	2.62	U
IRON	1.53	U
MAGNESIUM	1.41	B
MOLYBDENUM	0.07	B
POTASSIUM	3.62	U
SODIUM	4.71	U
THALLIUM	0.12	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: CCB

File: FSD17F Apr 17, 2002 20:25

Analyte	Result	C
ALUMINUM	5.16	B
CALCIUM	2.62	U
IRON	4.57	B
MAGNESIUM	5.64	B
MOLYBDENUM	1.27	B
POTASSIUM	6.52	B
SODIUM	10.34	B
THALLIUM	0.10	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

SAMPLE: ICB

File: FSD23A Apr 23, 2002 10:56

Analyte	Result	C
ALUMINUM	1.03	U
CALCIUM	2.62	U
IRON	1.53	U
MAGNESIUM	1.36	B
MOLYBDENUM	0.17	B
POTASSIUM	3.62	U
SODIUM	4.71	U
THALLIUM	0.04	B

SAMPLE: CCB

File: FSD23A Apr 23, 2002 11:50

Analyte	Result	C
ALUMINUM	2.91	B
CALCIUM	4.00	B
IRON	5.52	B
MAGNESIUM	3.82	B
MOLYBDENUM	0.86	B
POTASSIUM	6.78	B
SODIUM	8.13	B
THALLIUM	0.02	B

SAMPLE: CCB

File: FSD23A Apr 23, 2002 13:22

Analyte	Result	C
ALUMINUM	1.03	U
CALCIUM	2.62	U
IRON	7.19	B
MAGNESIUM	1.64	B
MOLYBDENUM	0.06	B
POTASSIUM	3.62	U
SODIUM	4.71	U
THALLIUM	0.04	B

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Quality Control Report

Method Blank Summary

Client: TETRA TECH NUS, INC.

Workorder / SDG: CTO162-3

Parameter: BOD5

QC Batch ID: SD15BDW1
Analysis Method: E405.1
Prep Method: E405.1

Anal Date: 04/15/02
Prep Date: 04/10/02

Blank Result: <6.0 mg/L
PQL: 6.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/15/02
	LCS	04/15/02
	LCSD	04/15/02
JAX-47-MW15S-01-040802~	WS0800-2	04/15/02
JAX-47-MW15D-01-040802~	WS0800-3	04/15/02
JAX-47-USGS(S)-040902~	WS0811-1	04/15/02
JAX-47-USGS(D)-040902~	WS0811-2	04/15/02
JAX-47-MW10S-01-040902~	WS0811-3	04/15/02
JAX-47-MW20S-01-040902~	WS0811-4	04/15/02
JAX-47-536-MW03-01-040902	WS0811-5	04/15/02

QC Batch ID: SD18BDW2
Analysis Method: E405.1
Prep Method: E405.1

Anal Date: 04/11/02
Prep Date: 04/06/02

Blank Result: <6.0 mg/L
PQL: 6.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/11/02
	LCS	04/11/02
	LCSD	04/11/02
JAX-47-MW11S-01-040402~	WS0791-7	04/11/02
JAX-47-MW13S-01-040402~	WS0791-3	04/11/02
JAX-47-MW16D-01-040502~	WS0791-9	04/11/02
JAX-47-MW17D-01-040402~	WS0791-5	04/11/02
JAX-47-MW17S-01-040402~	WS0791-6	04/11/02
JAX-47-MW18S-01-040502~	WS0791-4	04/11/02
JAX-47-MW18S-01-040502~	WS0791-4 MS	04/11/02
JAX-47-MW16S-01-040502~	WS0791-10	04/11/02
JAX-47-MW18D-01-040502~	WS0791-11	04/11/02
JAX-47-MW11D-01-040402~	WS0791-8	04/11/02
JAX-47-MW13D-01-040402~	WS0791-2	04/11/02

Parameter: Chemical Oxygen Demand

QC Batch ID: SD26CDW1
Analysis Method: E410.4
Prep Method: N/A

Anal Date: 04/25/02
Prep Date: N/A

Blank Result: <15 mg/L
PQL: 15 mg/L

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Quality Control Report

Method Blank Summary

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	LCS	04/25/02
	MBLANK	04/25/02
JAX-47-MW13D-01-040402~	WS0791-2	04/25/02
JAX-47-MW13S-01-040402~	WS0791-3	04/25/02
JAX-47-MW18S-01-040502~	WS0791-4	04/25/02
JAX-47-MW17D-01-040402~	WS0791-5	04/25/02
JAX-47-MW17S-01-040402~	WS0791-6	04/25/02
JAX-47-MW11S-01-040402~	WS0791-7	04/25/02
JAX-47-MW11D-01-040402~	WS0791-8	04/25/02
JAX-47-MW16D-01-040502~	WS0791-9	04/25/02
JAX-47-MW16D-01-040502~	WS0791-9 DUP	04/25/02
JAX-47-MW16D-01-040502~	WS0791-9 MS	04/25/02
JAX-47-MW16S-01-040502~	WS0791-10	04/25/02
JAX-47-MW18D-01-040502~	WS0791-11	04/25/02

QC Batch ID: SE07CDW1
Analysis Method: E410.4 **Anal Date:** 05/07/02 **Blank Result:** <15 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 15 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	05/07/02
	LCS	05/07/02
JAX-47-536-MW03-01-040902	WS0811-5	05/07/02
JAX-47-536-MW03-01-040902	WS0811-5 DUP	05/07/02

QC Batch ID: SE07CDW2
Analysis Method: E410.4 **Anal Date:** 05/06/02 **Blank Result:** <15 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 15 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	05/06/02
	LCS	05/06/02
JAX-47-USGS(S)-040902~	WS0811-1	05/06/02
JAX-47-USGS(D)-040902~	WS0811-2	05/06/02
JAX-47-MW10S-01-040902~	WS0811-3	05/06/02
JAX-47-MW20S-01-040902~	WS0811-4	05/06/02

QC Batch ID: SE07CDW3
Analysis Method: E410.4 **Anal Date:** 05/06/02 **Blank Result:** <15 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 15 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	05/06/02
	LCS	05/06/02

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Quality Control Report

Method Blank Summary

JAX-47-MW15S-01-040802~	WS0800-2	05/06/02
JAX-47-MW15D-01-040802~	WS0800-3	05/06/02

Parameter: Chloride

QC Batch ID: SD25CLW3
Analysis Method: E325.2 **Anal Date:** 04/25/02 **Blank Result:** <2.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 2.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/25/02
	LCS	04/25/02
JAX-47-MW13D-01-040402~	WS0791-2	04/25/02
JAX-47-MW13S-01-040402~	WS0791-3	04/25/02
JAX-47-MW18S-01-040502~	WS0791-4	04/25/02
JAX-47-MW18S-01-040502~	WS0791-4 DUP	04/25/02
JAX-47-MW18S-01-040502~	WS0791-4 MS	04/25/02
JAX-47-MW17D-01-040402~	WS0791-5	04/25/02
JAX-47-MW17S-01-040402~	WS0791-6	04/25/02
JAX-47-MW11S-01-040402~	WS0791-7	04/25/02
JAX-47-MW11D-01-040402~	WS0791-8	04/25/02
JAX-47-MW16D-01-040502~	WS0791-9	04/25/02
JAX-47-MW16S-01-040502~	WS0791-10	04/25/02
JAX-47-MW18D-01-040502~	WS0791-11	04/25/02

QC Batch ID: SE03CLW2
Analysis Method: E325.2 **Anal Date:** 05/01/02 **Blank Result:** <2.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 2.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	05/01/02
	LCS	05/01/02
JAX-47-MW15S-01-040802~	WS0800-2	05/01/02
JAX-47-MW15D-01-040802~	WS0800-3	05/01/02
JAX-47-USGS(S)-040902~	WS0811-1	05/01/02
JAX-47-USGS(D)-040902~	WS0811-2	05/01/02
JAX-47-MW10S-01-040902~	WS0811-3	05/01/02
JAX-47-MW20S-01-040902~	WS0811-4	05/01/02
JAX-47-536-MW03-01-040902	WS0811-5	05/01/02

Parameter: Nitrate as N

QC Batch ID: SD09NOW1
Analysis Method: 353.2 **Anal Date:** 04/06/02 **Blank Result:** <0.05 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.050 mg/L

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Quality Control Report

Method Blank Summary

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	LCS	04/06/02
	MBLANK	04/06/02
JAX-47-MW13S-01-040402~	WS0791-3	04/06/02
JAX-47-MW18S-01-040502~	WS0791-4	04/06/02
JAX-47-MW17D-01-040402~	WS0791-5	04/06/02
JAX-47-MW17S-01-040402~	WS0791-6	04/06/02
JAX-47-MW11S-01-040402~	WS0791-7	04/06/02
JAX-47-MW11D-01-040402~	WS0791-8	04/06/02
JAX-47-MW16D-01-040502~	WS0791-9	04/06/02
JAX-47-MW13D-01-040402	WS0791-2	04/06/02
JAX-47-MW13D-01-040402	WS0791-2 DUP	04/06/02
JAX-47-MW13D-01-040402	WS0791-2 MS	04/06/02

QC Batch ID: SD09NOW2
Analysis Method: 353.2 **Anal Date:** 04/06/02 **Blank Result:** <0.05 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.050 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/06/02
	LCS	04/06/02
JAX-47-MW16S-01-040502~	WS0791-10	04/06/02
JAX-47-MW18D-01-040502~	WS0791-11	04/06/02
JAX-47-MW18D-01-040502~	WS0791-11 DUP	04/06/02
JAX-47-MW18D-01-040502~	WS0791-11 MS	04/06/02

QC Batch ID: SD10NOW2
Analysis Method: 353.2 **Anal Date:** 04/09/02 **Blank Result:** <0.05 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.050 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/09/02
	LCS	04/09/02
JAX-47-MW15D-01-040802~	WS0800-3	04/09/02
JAX-47-MW15S-01-040802~	WS0800-2	04/09/02

QC Batch ID: SD11NOW2
Analysis Method: 353.2 **Anal Date:** 04/10/02 **Blank Result:** <0.05 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.050 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/10/02
	LCS	04/10/02
JAX-47-MW20S-01-040902~	WS0811-4	04/10/02
JAX-47-USGS(D)-040902~	WS0811-2	04/10/02

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Quality Control Report

Method Blank Summary

JAX-47-MW10S-01-040902~	WS0811-3	04/10/02
JAX-47-USGS(S)-040902~	WS0811-1	04/10/02
JAX-47-536-MW03-01-040902	WS0811-5	04/10/02

Parameter: Nitrite as N

QC Batch ID: SD09NOW3
Analysis Method: 353.2 **Anal Date:** 04/06/02 **Blank Result:** <0.05 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.050 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/06/02
	LCS	04/06/02
JAX-47-MW13D-01-040402~	WS0791-2	04/06/02
JAX-47-MW13D-01-040402~	WS0791-2 DUP	04/06/02
JAX-47-MW13D-01-040402~	WS0791-2 MS	04/06/02
JAX-47-MW13S-01-040402~	WS0791-3	04/06/02
JAX-47-MW18S-01-040502~	WS0791-4	04/06/02
JAX-47-MW17D-01-040402~	WS0791-5	04/06/02
JAX-47-MW17S-01-040402~	WS0791-6	04/06/02
JAX-47-MW11S-01-040402~	WS0791-7	04/06/02
JAX-47-MW11D-01-040402~	WS0791-8	04/06/02
JAX-47-MW16D-01-040502~	WS0791-9	04/06/02

QC Batch ID: SD09NOW4
Analysis Method: 353.2 **Anal Date:** 04/06/02 **Blank Result:** <0.05 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.050 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/06/02
	LCS	04/06/02
JAX-47-MW16S-01-040502~	WS0791-10	04/06/02
JAX-47-MW18D-01-040502~	WS0791-11	04/06/02
JAX-47-MW18D-01-040502~	WS0791-11 DUP	04/06/02
JAX-47-MW18D-01-040502~	WS0791-11 MS	04/06/02

QC Batch ID: SD10NOW1
Analysis Method: 353.2 **Anal Date:** 04/09/02 **Blank Result:** <0.05 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.050 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/09/02
	LCS	04/09/02
JAX-47-MW15D-01-040802~	WS0800-3	04/09/02

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Quality Control Report

Method Blank Summary

JAX-47-MW15S-01-040802~	WS0800-2	04/09/02

QC Batch ID: SD11NOW1
Analysis Method: 353.2 **Anal Date:** 04/10/02 **Blank Result:** <0.05 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.050 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/10/02
	LCS	04/10/02
JAX-47-MW20S-01-040902~	WS0811-4	04/10/02
JAX-47-USGS(D)-040902~	WS0811-2	04/10/02
JAX-47-MW10S-01-040902~	WS0811-3	04/10/02
JAX-47-USGS(S)-040902~	WS0811-1	04/10/02
JAX-47-536-MW03-01-040902	WS0811-5	04/10/02

Parameter: Nitrogen, Total Kjeldahl as N

QC Batch ID: SD18KNW1
Analysis Method: E351.2 **Anal Date:** 04/18/02 **Blank Result:** <0.1 mg/L
Prep Method: E351.2 **Prep Date:** 04/16/02 **PQL:** 0.1 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	LCS	04/18/02
	MBLANK	04/18/02
JAX-47-MW13D-01-040402~	WS0791-2	04/18/02
JAX-47-MW13S-01-040402~	WS0791-3	04/18/02
JAX-47-MW18S-01-040502~	WS0791-4	04/18/02
JAX-47-MW17D-01-040402~	WS0791-5	04/18/02
JAX-47-MW17S-01-040402~	WS0791-6	04/18/02
JAX-47-MW11S-01-040402~	WS0791-7	04/18/02
JAX-47-MW11D-01-040402~	WS0791-8	04/18/02
JAX-47-MW11D-01-040402~	WS0791-8 DUP	04/18/02
JAX-47-MW11D-01-040402~	WS0791-8 MS	04/18/02
JAX-47-MW16D-01-040502~	WS0791-9	04/18/02
JAX-47-MW16S-01-040502~	WS0791-10	04/18/02
JAX-47-MW18D-01-040502~	WS0791-11	04/18/02

QC Batch ID: SD23KNW1
Analysis Method: E351.2 **Anal Date:** 04/23/02 **Blank Result:** 0.124 mg/L
Prep Method: E351.2 **Prep Date:** 04/22/02 **PQL:** 0.10 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/23/02
	LCS	04/23/02
JAX-47-MW15D-01-040802~	WS0800-3	04/23/02

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Quality Control Report

Method Blank Summary

JAX-47-MW15D-01-040802~	WS0800-3 DUP	04/23/02
JAX-47-MW15D-01-040802~	WS0800-3 MS	04/23/02

QC Batch ID: SE03KNW2
Analysis Method: E351.2 **Anal Date:** 05/02/02 **Blank Result:** <0.1 mg/L
Prep Method: E351.2 **Prep Date:** 04/29/02 **PQL:** 0.10 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	05/02/02
	LCS	05/02/02
JAX-47-USGS(S)-040902~	WS0811-1	05/02/02
JAX-47-USGS(D)-040902~	WS0811-2	05/02/02
JAX-47-MW10S-01-040902~	WS0811-3	05/02/02
JAX-47-MW20S-01-040902~	WS0811-4	05/02/02
JAX-47-536-MW03-01-040902	WS0811-5	05/02/02
JAX-47-MW15S-01-040802~	WS0800-2	05/02/02

Parameter: Nitrogen-Ammonia as N

QC Batch ID: SD23NAW2
Analysis Method: 350.1 **Anal Date:** 04/22/02 **Blank Result:** <0.1 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.10 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/22/02
	LCS	04/22/02
JAX-47-MW13S-01-040402~	WS0791-3	04/22/02
JAX-47-MW18S-01-040502~	WS0791-4	04/22/02
JAX-47-MW17D-01-040402~	WS0791-5	04/22/02
JAX-47-MW17S-01-040402~	WS0791-6	04/22/02
JAX-47-MW11S-01-040402~	WS0791-7	04/22/02
JAX-47-MW11D-01-040402~	WS0791-8	04/22/02

QC Batch ID: SD27NAW1
Analysis Method: 350.1 **Anal Date:** 04/22/02 **Blank Result:** <0.1 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.10 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	LCS	04/22/02
	MBLANK	04/22/02
JAX-47-MW13D-01-040402~	WS0791-2	04/22/02

QC Batch ID: SD27NAW3
Analysis Method: 350.1 **Anal Date:** 04/26/02 **Blank Result:** <0.1 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.10 mg/L

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Quality Control Report

Method Blank Summary

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/26/02
	LCS	04/26/02
JAX-47-MW16D-01-040502~	WS0791-9	04/26/02
JAX-47-MW16S-01-040502~	WS0791-10	04/26/02
JAX-47-MW18D-01-040502~	WS0791-11	04/26/02

QC Batch ID: SE06NAW2
Analysis Method: 350.1 **Anal Date:** 05/04/02 **Blank Result:** <0.1 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.10 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	05/04/02
	LCS	05/04/02
JAX-47-MW15S-01-040802~	WS0800-2	05/04/02
JAX-47-MW15D-01-040802~	WS0800-3	05/04/02

QC Batch ID: SE06NAW3
Analysis Method: 350.1 **Anal Date:** 05/04/02 **Blank Result:** <0.1 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 0.10 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	05/04/02
	LCS	05/04/02
JAX-47-USGS(S)-040902~	WS0811-1	05/04/02
JAX-47-USGS(D)-040902~	WS0811-2	05/04/02
JAX-47-MW10S-01-040902~	WS0811-3	05/04/02
JAX-47-MW20S-01-040902~	WS0811-4	05/04/02
JAX-47-536-MW03-01-040902	WS0811-5	05/04/02

Parameter: Sulfate

QC Batch ID: SD19SOW2
Analysis Method: 375.4 **Anal Date:** 04/18/02 **Blank Result:** <1.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 1.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/18/02
	LCS	04/18/02
JAX-47-MW13D-01-040402~	WS0791-2	04/18/02
JAX-47-MW13S-01-040402~	WS0791-3	04/18/02
JAX-47-MW13S-01-040402~	WS0791-3 DUP	04/18/02
JAX-47-MW13S-01-040402~	WS0791-3 MS	04/18/02

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Quality Control Report

Method Blank Summary

QC Batch ID: SD25SOW2
Analysis Method: 375.4 **Anal Date:** 04/23/02 **Blank Result:** <1.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 1.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/23/02
	LCS	04/23/02
JAX-47-MW18S-01-040502~	WS0791-4	04/23/02
JAX-47-MW17S-01-040402~	WS0791-6	04/23/02
JAX-47-MW11S-01-040402~	WS0791-7	04/23/02
JAX-47-MW11D-01-040402~	WS0791-8	04/23/02
JAX-47-MW16D-01-040502~	WS0791-9	04/23/02
JAX-47-MW17D-01-040402~	WS0791-5	04/23/02
JAX-47-MW17D-01-040402~	WS0791-5 DUP	04/23/02
JAX-47-MW17D-01-040402~	WS0791-5 MS	04/23/02
JAX-47-MW16S-01-040502~	WS0791-10	04/23/02
JAX-47-MW18D-01-040502~	WS0791-11	04/23/02

QC Batch ID: SE01SOW1
Analysis Method: 375.4 **Anal Date:** 04/25/02 **Blank Result:** <1.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 1.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/25/02
	LCS	04/25/02
JAX-47-MW15D-01-040802~	WS0800-3	04/25/02
JAX-47-MW15S-01-040802~	WS0800-2	04/25/02
JAX-47-MW10S-01-040902~	WS0811-3	04/25/02
JAX-47-MW20S-01-040902~	WS0811-4	04/25/02
JAX-47-MW15S-01-040802~	WS0800-2 DUP	04/25/02
JAX-47-MW15D-01-040802~	WS0800-3 MS	04/25/02
JAX-47-MW15D-01-040802~	WS0800-3 DUP	04/25/02
JAX-47-MW15S-01-040802~	WS0800-2 MS	04/25/02
JAX-47-USGS(S)-040902~	WS0811-1	04/25/02
JAX-47-USGS(D)-040902~	WS0811-2	04/25/02
JAX-47-536-MW03-01-040902	WS0811-5	04/25/02

Parameter: Sulfide

QC Batch ID: SD12SDW1
Analysis Method: 376.1 **Anal Date:** 04/12/02 **Blank Result:** <1.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 1.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/12/02

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Quality Control Report

Method Blank Summary

	LCS	04/12/02
JAX-47-MW13D-01-040402~	WS0791-2	04/12/02
JAX-47-MW13S-01-040402~	WS0791-3	04/12/02
JAX-47-MW18S-01-040502~	WS0791-4	04/12/02
JAX-47-MW17D-01-040402~	WS0791-5	04/12/02
JAX-47-MW17S-01-040402~	WS0791-6	04/12/02
JAX-47-MW11S-01-040402~	WS0791-7	04/12/02
JAX-47-MW17S-01-040402~	WS0791-6 DUP	04/12/02
JAX-47-MW17S-01-040402~	WS0791-6 MS	04/12/02
JAX-47-MW11D-01-040402~	WS0791-8	04/12/02
JAX-47-MW16D-01-040502~	WS0791-9	04/12/02
JAX-47-MW16S-01-040502~	WS0791-10	04/12/02
JAX-47-MW18D-01-040502~	WS0791-11	04/12/02
JAX-47-MW15S-01-040802~	WS0800-2	04/12/02
JAX-47-MW15D-01-040802~	WS0800-3	04/12/02

Parameter: Sulfide, Dissolved

QC Batch ID: SD23SDW1
Analysis Method: 376.1 **Anal Date:** 04/15/02 **Blank Result:** <1.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 1.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/15/02
	LCS	04/15/02
JAX-47-USGS(S)-040902~	WS0811-1	04/15/02
JAX-47-USGS(S)-040902~	WS0811-1 DUP	04/15/02
JAX-47-USGS(S)-040902~	WS0811-1 MS	04/15/02
JAX-47-USGS(D)-040902~	WS0811-2	04/15/02
JAX-47-MW10S-01-040902~	WS0811-3	04/15/02
JAX-47-MW20S-01-040902~	WS0811-4	04/15/02
JAX-47-536-MW03-01-040902	WS0811-5	04/15/02

Parameter: Total Organic Carbon (TOC)

QC Batch ID: SD29TCW1
Analysis Method: E415.1 **Anal Date:** 04/27/02 **Blank Result:** <1.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 1.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/27/02
	LCS	04/27/02
	LCSD	04/27/02
JAX-47-MW13D-01-040402	WS0791-2	04/27/02
JAX-47-MW13S-01-040402	WS0791-3	04/27/02
JAX-47-MW18S-01-040502	WS0791-4	04/27/02

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

Katahdin ANALYTICAL SERVICES

nelac ACCREDITED IN ACCORDANCE WITH Cert. No. E87604

Quality Control Report

Method Blank Summary

JAX-47-MW17D-01-040402	WS0791-5	04/27/02

QC Batch ID: SD29TCW2
Analysis Method: E415.1 **Anal Date:** 04/27/02 **Blank Result:** <1.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 1.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/27/02
	LCS	04/27/02
	LCSD	04/27/02
JAX-47-MW17S-01-040402~	WS0791-6	04/27/02
JAX-47-MW17S-01-040402~	WS0791-6 DUP	04/27/02
JAX-47-MW17S-01-040402~	WS0791-6 MS	04/27/02
JAX-47-MW11S-01-040402~	WS0791-7	04/27/02
JAX-47-MW11D-01-040402~	WS0791-8	04/27/02
JAX-47-MW16D-01-040502~	WS0791-9	04/27/02
JAX-47-MW16S-01-040502~	WS0791-10	04/27/02
JAX-47-MW18D-01-040502~	WS0791-11	04/27/02
JAX-47-MW15S-01-040802~	WS0800-2	04/27/02
JAX-47-MW15D-01-040802~	WS0800-3	04/27/02

QC Batch ID: SD30TCW1
Analysis Method: E415.1 **Anal Date:** 04/29/02 **Blank Result:** <1.0 mg/L
Prep Method: N/A **Prep Date:** N/A **PQL:** 1.0 mg/L

Associated Samples:

Client Sample ID	Lab Sample ID	Date Analyzed
	MBLANK	04/29/02
	LCS	04/29/02
	LCSD	04/29/02
JAX-47-USGS(S)-040902~	WS0811-1	04/29/02
JAX-47-USGS(D)-040902~	WS0811-2	04/29/02
JAX-47-MW10S-01-040902~	WS0811-3	04/29/02
JAX-47-MW20S-01-040902~	WS0811-4	04/29/02
JAX-47-536-MW03-01-040902	WS0811-5	04/29/02

Notes:
'*' Flag denotes spiked compound recovery is out of criteria
'N/A' = Not Analyzed

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 1/21/02

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	16.60	P
ANTIMONY	8.0	2.62	P
ARSENIC	8.0	2.15	P
BARIUM	5.0	0.24	P
BERYLLIUM	5.0	0.28	P
CADMIUM	10	0.35	P
CALCIUM	50	5.49	P
CHROMIUM	15	0.84	P
COBALT	30	0.68	P
COPPER	25	0.85	P
IRON	100	13.75	P
LEAD	5.0	1.37	P
MAGNESIUM	50	5.58	P
MANGANESE	5.0	0.13	P
NICKEL	40	0.93	P
SELENIUM	10	3.42	P
SILVER	15	0.94	P
VANADIUM	25	0.58	P
ZINC	25	0.36	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** B

Instrument Name: TJA 61 ICP **Date:** 1/21/02

Concentration Units: ug/L

Analyte	CRDL	IDL	M
CALCIUM	50	18.78	P
IRON	100	6.91	P
MAGNESIUM	50	19.83	P
MANGANESE	5.0	0.88	P
POTASSIUM	1000	388.09	P
SODIUM	1000	13.10	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** D

Instrument Name: LEEMAN MERCURY ANALYZER **Date:** 1/21/02

Concentration Units: ug/L

Analyte	CRDL	IDL	M
MERCURY	0.20	0.03	CV

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** F

Instrument Name: AGILENT 7500 ICP-MS **Date:** 1/21/02

Concentration Units: ug/L

Analyte	CRDL	IDL	M
THALLIUM	15	0.02	MS

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** SD13ICW0

Matrix: WATER **SDG Name:** CTO162-3

Method: P **Prep Date:** 04/13/2002

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWSD13ICW0	LCSWSD13ICW0	0.05	0.05
PBWSD13ICW0	PBWSD13ICW0	0.05	0.05
JAX-47-MW15S-01-040802	WS0800-002	0.05	0.05
JAX-47-MW15D-01-040802	WS0800-003	0.05	0.05
JAX-47-MW15S-01-040802-F	WS0800-004	0.05	0.05
JAX-47-MW15D-01-040802-F	WS0800-005	0.05	0.05
JAX-47-USGS(S)-040902	WS0811-001	0.05	0.05
JAX-47-USGS(D)-040902	WS0811-002	0.05	0.05
JAX-47-MW10S-01-040902	WS0811-003	0.05	0.05
JAX-47-MW20S-01-040902	WS0811-004	0.05	0.05
JAX-47-536-MW03-01-040902	WS0811-005	0.05	0.05
JAX-47-USGS(S)-040902-F	WS0811-006	0.05	0.05
JAX-47-MW10S-01-040902-F	WS0811-007	0.05	0.05
JAX-47-MW20S-01-040902-F	WS0811-008	0.05	0.05
JAX-47-536-MW03-01-040902-F	WS0811-009	0.05	0.05
JAX-47-USGS(D)-040902-F	WS0811-010	0.05	0.05
JAX-47-USGS(D)-040902-FP	WS0811-010P	0.05	0.05
JAX-47-USGS(D)-040902-FS	WS0811-010S	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** SD13ICW2

Matrix: WATER **SDG Name:** CTO162-3

Method: P **Prep Date:** 04/13/2002

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWSD13ICW2	LCSWSD13ICW2	0.05	0.05
PBWSD13ICW2	PBWSD13ICW2	0.05	0.05
JAX-47-MW13D-01-040402	WS0791-002	0.05	0.05
JAX-47-MW13S-01-040402	WS0791-003	0.05	0.05
JAX-47-MW18S-01-040502	WS0791-004	0.05	0.05
JAX-47-MW17D-01-040402	WS0791-005	0.05	0.05
JAX-47-MW17S-01-040402	WS0791-006	0.05	0.05
JAX-47-MW11S-01-040402	WS0791-007	0.05	0.05
JAX-47-MW11D-01-040402	WS0791-008	0.05	0.05
JAX-47-MW16D-01-040502	WS0791-009	0.05	0.05
JAX-47-MW16S-01-040502	WS0791-010	0.05	0.05
JAX-47-MW18D-01-040502	WS0791-011	0.05	0.05
JAX-47-MW18S-01-040502-F	WS0791-012	0.05	0.05
JAX-47-MW17D-01-040402-F	WS0791-013	0.05	0.05
JAX-47-MW17S-01-040402-F	WS0791-014	0.05	0.05
JAX-47-MW13D-01-040402-F	WS0791-015	0.05	0.05
JAX-47-MW13S-01-040402-F	WS0791-016	0.05	0.05
JAX-47-MW11S-01-040402-F	WS0791-017	0.05	0.05
JAX-47-MW11D-01-040402-F	WS0791-018	0.05	0.05
JAX-47-MW16D-01-040502-F	WS0791-019	0.05	0.05
JAX-47-MW16S-01-040502-F	WS0791-020	0.05	0.05
JAX-47-MW18D-01-040502-F	WS0791-021	0.05	0.05
JAX-47-MW18D-01-040502-FP	WS0791-021P	0.05	0.05
JAX-47-MW18D-01-040502-FS	WS0791-021S	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** SD16HGW1

Matrix: WATER **SDG Name:** CTO162-3

Method: CV **Prep Date:** 04/16/2002

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWSD16HGW1	LCSWSD16HGW1	0.1	0.1
PBWSD16HGW1	PBWSD16HGW1	0.1	0.1
JAX-47-MW13D-01-040402	WS0791-002	0.1	0.1
JAX-47-MW13S-01-040402	WS0791-003	0.1	0.1
JAX-47-USGS(S)-040902	WS0811-001	0.1	0.1
JAX-47-USGS(D)-040902	WS0811-002	0.1	0.1

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA TRACE ICP **File Name:** ASD14A

Date: 4/14/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
S0		1	14:38	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
S2		1	14:45	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
AL_IEC		1	14:55	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
FE_IEC		1	15:04	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
IEC		1	15:14	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ICV		1	15:24	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ICB		1	15:30	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
PQL		1	15:37	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
LRS		1	15:44	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
LRS/2		1	15:50	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CRI		1	15:57	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ICSA		1	16:04	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ICSAB		1	16:10	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCV		1	16:17	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCB		1	16:24	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ZZZZZZ		2	16:31	
ZZZZZZ		1	16:37	
ZZZZZZ		1	16:44	
ZZZZZZ		1	16:51	
ZZZZZZ		5	16:57	
ZZZZZZ		1	17:04	
ZZZZZZ		1	17:11	
ZZZZZZ		1	17:17	
ZZZZZZ		1	17:24	
ZZZZZZ		1	17:31	
CCV		1	17:37	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCB		1	17:44	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ZZZZZZ		1	17:51	
ZZZZZZ		1	17:57	
ZZZZZZ		1	18:04	
ZZZZZZ		2	18:11	
ZZZZZZ		1	18:17	
ZZZZZZ		1	18:24	
ZZZZZZ		1	18:31	
ZZZZZZ		1	18:37	
ZZZZZZ		1	18:44	
ZZZZZZ		1	18:51	
CCV		1	18:57	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCB		1	19:04	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ZZZZZZ		1	19:11	
ZZZZZZ		1	19:17	
ZZZZZZ		5	19:24	
ZZZZZZ		1	19:31	
ZZZZZZ		1	19:37	
ZZZZZZ		1	19:44	
ZZZZZZ		1	19:51	
CRI		1	19:57	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ICSA		1	20:04	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ICSAB		1	20:11	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCV		1	20:17	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA TRACE ICP **File Name:** ASD14A

Date: 4/14/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
CCB		1	20:24	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ZZZZZZ		1	20:31	
ZZZZZZ		1	20:37	
ZZZZZZ		1	20:44	
ZZZZZZ		2	20:51	
ZZZZZZ		2	20:58	
ZZZZZZ		1	21:04	
ZZZZZZ		1	21:11	
ZZZZZZ		1	21:18	
ZZZZZZ		1	21:24	
ZZZZZZ		1	21:31	
CCV		1	21:38	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCB		1	21:44	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ZZZZZZ		1	21:51	
ZZZZZZ		1	21:58	
ZZZZZZ		1	22:04	
ZZZZZZ		1	22:11	
ZZZZZZ		1	22:18	
ZZZZZZ		1	22:24	
LCSWSD13ICW0		1	22:31	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
PBWSD13ICW0		1	22:38	Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Ni Se Ag V Zn
WS0811-001	JAX-47-USGS(S)-040902	1	22:44	Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Ni Se Ag V Zn
WS0811-002	JAX-47-USGS(D)-040902	1	22:51	Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Ni Se Ag V Zn
CCV		1	22:58	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCB		1	23:04	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ZZZZZZ		1	23:11	
ZZZZZZ		1	23:18	
ZZZZZZ		1	23:24	
ZZZZZZ		1	23:31	
ZZZZZZ		1	23:38	
ZZZZZZ		1	23:45	
LCSWSD13ICW2		1	23:51	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CRI		1	23:58	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ICSA		1	0:05	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ICSAB		1	0:11	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCV		1	0:18	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCB		1	0:25	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
PBWSD13ICW2		1	0:31	Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Ni Se Ag V Zn
WS0791-002	\X-47-MW13D-01-040402	1	0:38	Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Ni Se Ag V Zn
WS0791-003	\X-47-MW13S-01-040402	1	0:45	Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Ni Se Ag V Zn
ZZZZZZ		1	0:51	
ZZZZZZ		1	0:58	
ZZZZZZ		1	1:05	
ZZZZZZ		1	1:11	
ZZZZZZ		1	1:18	
ZZZZZZ		1	1:25	
ZZZZZZ		1	1:31	
CCV		1	1:38	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
CCB		1	1:45	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni Se Ag V Zn
ZZZZZZ		1	1:51	
ZZZZZZ		5	1:58	

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA TRACE ICP **File Name:** ASD14A

Date: 4/15/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements																
ZZZZZZ		1	2:05																	
ZZZZZZ		1	2:12																	
ZZZZZZ		1	2:18																	
CRI		1	2:25	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	Se	Ag	V	Zn
ICSA		1	2:32	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	Se	Ag	V	Zn
ICSAB		1	2:38	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	Se	Ag	V	Zn
CCV		1	2:45	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	Se	Ag	V	Zn
CCB		1	2:52	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	Se	Ag	V	Zn

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA 61 ICP **File Name:** BSD14A

Date: 4/14/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements					
S0		1	14:27	Al	Ca	Fe	Mg Mn	K	Na
S1		1	14:33	Al	Ca	Fe	Mg Mn	K	Na
AL IEC		1	14:38	Al	Ca	Fe	Mg Mn	K	Na
FE IEC		1	14:47	Al	Ca	Fe	Mg Mn	K	Na
ICV		1	14:55	Al	Ca	Fe	Mg Mn	K	Na
ICB		1	15:01	Al	Ca	Fe	Mg Mn	K	Na
PQL		1	15:06	Al	Ca	Fe	Mg Mn	K	Na
PQL		1	15:13	Al	Ca	Fe	Mg Mn	K	Na
PQL		1	15:37	Al	Ca	Fe	Mg Mn	K	Na
LRS		1	15:42	Al	Ca	Fe	Mg Mn	K	Na
LRS/2		1	15:48	Al	Ca	Fe	Mg Mn	K	Na
CRI		1	15:54	Al	Ca	Fe	Mg Mn	K	Na
ICSA		1	15:59	Al	Ca	Fe	Mg Mn	K	Na
ICSAB		1	16:05	Al	Ca	Fe	Mg Mn	K	Na
CCV		1	16:10	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	16:16	Al	Ca	Fe	Mg Mn	K	Na
ZZZZZZ		1	16:22						
ZZZZZZ		5	16:27						
ZZZZZZ		1	16:33						
ZZZZZZ		1	16:39						
ZZZZZZ		1	16:44						
ZZZZZZ		1	16:50						
ZZZZZZ		1	16:56						
ZZZZZZ		1	17:01						
ZZZZZZ		1	17:07						
ZZZZZZ		1	17:13						
CCV		1	17:18	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	17:24	Al	Ca	Fe	Mg Mn	K	Na
ZZZZZZ		1	17:30						
ZZZZZZ		1	17:35						
ZZZZZZ		1	17:41						
ZZZZZZ		5	17:46						
ZZZZZZ		2	17:52						
ZZZZZZ		2	17:58						
WS0800-002	\X-47-MW15S-01-040802	1	18:03			Fe	Mn		
WS0800-003	\X-47-MW15D-01-040802	1	18:09			Fe	Mn		
WS0800-004	-47-MW15S-01-040802-F	1	18:15			Fe	Mn		
WS0800-005	-47-MW15D-01-040802-F	1	18:20			Fe	Mn		
CCV		1	18:26	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	18:32	Al	Ca	Fe	Mg Mn	K	Na
WS0811-001	JAX-47-USGS(S)-040902	1	18:37		Ca		Mg	K	Na
WS0811-002	JAX-47-USGS(D)-040902	1	18:43		Ca		Mg	K	Na
WS0811-003	\X-47-MW10S-01-040902	1	18:48			Fe	Mn		
WS0811-004	\X-47-MW20S-01-040902	1	18:54			Fe	Mn		
WS0811-005	47-536-MW03-01-040902	1	19:00			Fe	Mn		
WS0811-006	X-47-USGS(S)-040902-F	1	19:05			Fe	Mn		
WS0811-007	-47-MW10S-01-040902-F	1	19:11			Fe	Mn		
CRI		1	19:17	Al	Ca	Fe	Mg Mn	K	Na
ICSA		1	19:22	Al	Ca	Fe	Mg Mn	K	Na
ICSAB		1	19:28	Al	Ca	Fe	Mg Mn	K	Na

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA 61 ICP **File Name:** BSD14A

Date: 4/14/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements					
CCV		1	19:34	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	19:39	Al	Ca	Fe	Mg Mn	K	Na
WS0811-008	-47-MW20S-01-040902-F	1	19:45			Fe	Mn		
WS0811-009	'-536-MW03-01-040902-F	1	19:50			Fe	Mn		
WS0811-010	X-47-USGS(D)-040902-F	1	19:56			Fe	Mn		
WS0811-010L	-47-USGS(D)-040902-FL	5	20:02			Fe	Mn		
WS0811-010P	-47-USGS(D)-040902-FP	1	20:07			Fe	Mn		
WS0811-010S	-47-USGS(D)-040902-FS	1	20:13			Fe	Mn		
ZZZZZZ		1	20:19						
ZZZZZZ		1	20:24						
ZZZZZZ		1	20:30						
ZZZZZZ		1	20:36						
CCV		1	20:41	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	20:47	Al	Ca	Fe	Mg Mn	K	Na
ZZZZZZ		1	20:52						
ZZZZZZ		1	20:58						
LCSWSD13ICW2		1	21:04					K	Na
PBWSD13ICW2		1	21:09					K	Na
WS0791-002	\X-47-MW13D-01-040402	1	21:15		Ca		Mg	K	Na
WS0791-003	\X-47-MW13S-01-040402	1	21:21		Ca		Mg	K	Na
WS0791-004	\X-47-MW18S-01-040502	1	21:26			Fe	Mn		
WS0791-005	\X-47-MW17D-01-040402	1	21:32			Fe	Mn		
WS0791-006	\X-47-MW17S-01-040402	1	21:38			Fe	Mn		
WS0791-007	\X-47-MW11S-01-040402	1	21:43			Fe	Mn		
CCV		1	21:49	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	21:55	Al	Ca	Fe	Mg Mn	K	Na
WS0791-008	\X-47-MW11D-01-040402	1	22:00			Fe	Mn		
WS0791-009	\X-47-MW16D-01-040502	1	22:06			Fe	Mn		
WS0791-010	\X-47-MW16S-01-040502	1	22:11			Fe	Mn		
WS0791-011	\X-47-MW18D-01-040502	1	22:17			Fe	Mn		
WS0791-012	-47-MW18S-01-040502-F	1	22:23			Fe	Mn		
WS0791-013	-47-MW17D-01-040402-F	1	22:28			Fe	Mn		
WS0791-014	-47-MW17S-01-040402-F	1	22:34			Fe	Mn		
CRI		1	22:40	Al	Ca	Fe	Mg Mn	K	Na
ICSA		1	22:45	Al	Ca	Fe	Mg Mn	K	Na
ICSAB		1	22:51	Al	Ca	Fe	Mg Mn	K	Na
CCV		1	22:57	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	23:02	Al	Ca	Fe	Mg Mn	K	Na
WS0791-015	-47-MW13D-01-040402-F	1	23:08			Fe	Mn		
WS0791-016	-47-MW13S-01-040402-F	1	23:13			Fe	Mn		
WS0791-017	-47-MW11S-01-040402-F	1	23:19			Fe	Mn		
WS0791-018	-47-MW11D-01-040402-F	1	23:25			Fe	Mn		
WS0791-019	-47-MW16D-01-040502-F	1	23:30			Fe	Mn		
WS0791-020	-47-MW16S-01-040502-F	1	23:36			Fe	Mn		
WS0791-021	-47-MW18D-01-040502-F	1	23:42			Fe	Mn		
WS0791-021L	47-MW18D-01-040502-FL	5	23:47			Fe	Mn		
WS0791-021P	47-MW18D-01-040502-FP	1	23:53			Fe	Mn		
WS0791-021S	47-MW18D-01-040502-FS	1	23:59			Fe	Mn		
CCV		1	0:04	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	0:10	Al	Ca	Fe	Mg Mn	K	Na
ZZZZZZ		1	0:16						

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA 61 ICP **File Name:** BSD14A

Date: 4/15/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements					
ZZZZZZ		1	0:21						
ZZZZZZ		1	0:27						
ZZZZZZ		5	0:33						
ZZZZZZ		1	0:38						
ZZZZZZ		1	0:44						
ZZZZZZ		1	0:49						
CRI		1	0:55	Al	Ca	Fe	Mg Mn	K	Na
ICSA		1	1:01	Al	Ca	Fe	Mg Mn	K	Na
ICSAB		1	1:06	Al	Ca	Fe	Mg Mn	K	Na
CCV		1	1:12	Al	Ca	Fe	Mg Mn	K	Na
CCB		1	1:18	Al	Ca	Fe	Mg Mn	K	Na

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA 61 ICP **File Name:** BSD15A

Date: 4/15/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
S0		1	14:31	Al	Ca	Fe	Mg	K	Na
S1		1	14:36	Al	Ca	Fe	Mg	K	Na
AL_IEC		1	14:42	Al	Ca	Fe	Mg	K	Na
FE_IEC		1	14:50	Al	Ca	Fe	Mg	K	Na
ICV		1	14:55	Al	Ca	Fe	Mg	K	Na
ICB		1	15:04	Al	Ca	Fe	Mg	K	Na
PQL		1	15:10	Al	Ca	Fe	Mg	K	Na
LRS		1	15:16	Al	Ca	Fe	Mg	K	Na
LRS/2		1	15:21	Al	Ca	Fe	Mg	K	Na
CRI		1	15:27	Al	Ca	Fe	Mg	K	Na
ICSA		1	15:33	Al	Ca	Fe	Mg	K	Na
ICSAB		1	15:38	Al	Ca	Fe	Mg	K	Na
CCV		1	15:44	Al	Ca	Fe	Mg	K	Na
CCB		1	15:50	Al	Ca	Fe	Mg	K	Na
ZZZZZZ		1	15:55						
ZZZZZZ		1	16:01						
ZZZZZZ		5	16:07						
ZZZZZZ		1	16:12						
ZZZZZZ		1	16:18						
ZZZZZZ		1	16:25						
ZZZZZZ		1	16:30						
ZZZZZZ		5	16:36						
ZZZZZZ		1	16:42						
ZZZZZZ		1	16:47						
CCV		1	16:53	Al	Ca	Fe	Mg	K	Na
CCB		1	16:58	Al	Ca	Fe	Mg	K	Na
ZZZZZZ		1	17:04						
ZZZZZZ		1	17:10						
ZZZZZZ		1	17:15						
ZZZZZZ		1	17:21						
ZZZZZZ		1	17:27						
ZZZZZZ		1	17:32						
ZZZZZZ		1	17:38						
ZZZZZZ		1	17:44						
ZZZZZZ		1	17:49						
ZZZZZZ		1	17:55						
CCV		1	18:00	Al	Ca	Fe	Mg	K	Na
CCB		1	18:06	Al	Ca	Fe	Mg	K	Na
ZZZZZZ		1	18:12						
ZZZZZZ		1	18:17						
ZZZZZZ		1	18:23						
ZZZZZZ		1	18:29						
ZZZZZZ		1	18:34						
ZZZZZZ		2	18:40						
LCSWSD13ICW0		1	18:46					K	Na
CRI		1	18:51	Al	Ca	Fe	Mg	K	Na
ICSA		1	18:57	Al	Ca	Fe	Mg	K	Na
ICSAB		1	19:02	Al	Ca	Fe	Mg	K	Na
CCV		1	19:08	Al	Ca	Fe	Mg	K	Na
CCB		1	19:14	Al	Ca	Fe	Mg	K	Na

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA 61 ICP **File Name:** BSD15A

Date: 4/15/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
PBWSD13ICW0		1	19:19	Ca		Mg	K	Na
ZZZZZZ		5	19:25					
ZZZZZZ		5	19:31					
ZZZZZZ		5	19:36					
ZZZZZZ		5	19:42					
ZZZZZZ		5	19:48					
ZZZZZZ		5	19:53					
ZZZZZZ		5	19:59					
CCV		1	20:04 Al	Ca	Fe	Mg	K	Na
CCB		1	20:10 Al	Ca	Fe	Mg	K	Na
CRI		1	20:16 Al	Ca	Fe	Mg	K	Na
ICSA		1	20:21 Al	Ca	Fe	Mg	K	Na
ICSAB		1	20:27 Al	Ca	Fe	Mg	K	Na
CCV		1	20:33 Al	Ca	Fe	Mg	K	Na
CCB		1	20:38 Al	Ca	Fe	Mg	K	Na

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA 61 ICP **File Name:** BSD16A

Date: 4/16/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements		
ZZZZZZ		1	9:42			
S0		1	13:33 Al	Ca	Fe	Mg
S1		1	13:39 Al	Ca	Fe	Mg
AL IEC		1	13:44 Al	Ca	Fe	Mg
FE IEC		1	13:53 Al	Ca	Fe	Mg
ICV		1	14:01 Al	Ca	Fe	Mg
ICB		1	14:07 Al	Ca	Fe	Mg
PQL		1	14:12 Al	Ca	Fe	Mg
LRS		1	14:18 Al	Ca	Fe	Mg
LRS/2		1	14:24 Al	Ca	Fe	Mg
CRI		1	14:29 Al	Ca	Fe	Mg
ICSA		1	14:40 Al	Ca	Fe	Mg
ICSAB		1	14:46 Al	Ca	Fe	Mg
CCV		1	14:51 Al	Ca	Fe	Mg
CCB		1	14:57 Al	Ca	Fe	Mg
ZZZZZZ		1	15:02			
ZZZZZZ		1	15:08			
ZZZZZZ		1	15:14			
ZZZZZZ		1	15:19			
ZZZZZZ		1	15:25			
ZZZZZZ		1	15:31			
ZZZZZZ		1	15:36			
ZZZZZZ		1	15:42			
ZZZZZZ		5	15:48			
ZZZZZZ		1	15:53			
CCV		1	15:59 Al	Ca	Fe	Mg
CCB		1	16:04 Al	Ca	Fe	Mg
ZZZZZZ		1	16:10			
ZZZZZZ		1	16:16			
ZZZZZZ		2	16:21			
ZZZZZZ		2	16:27			
ZZZZZZ		5	16:33			
ZZZZZZ		2	16:38			
ZZZZZZ		1	16:44			
ZZZZZZ		1	16:50			
ZZZZZZ		1	16:55			
ZZZZZZ		1	17:01			
CCV		1	17:06 Al	Ca	Fe	Mg
CCB		1	17:12 Al	Ca	Fe	Mg
ZZZZZZ		1	17:18			
ZZZZZZ		1	17:23			
ZZZZZZ		1	17:29			
ZZZZZZ		1	17:35			
ZZZZZZ		1	17:40			
ZZZZZZ		1	17:46			
ZZZZZZ		1	17:52			
CRI		1	17:57 Al	Ca	Fe	Mg
ICSA		1	18:03 Al	Ca	Fe	Mg
ICSAB		1	18:08 Al	Ca	Fe	Mg
CCV		1	18:14 Al	Ca	Fe	Mg

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA 61 ICP **File Name:** BSD16A

Date: 4/16/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements			
CCB		1	18:20	Al	Ca	Fe	Mg
ZZZZZZ		1	18:25				
ZZZZZZ		1	18:31				
ZZZZZZ		1	18:37				
ZZZZZZ		1	18:42				
ZZZZZZ		1	18:48				
ZZZZZZ		1	18:54				
ZZZZZZ		5	18:59				
ZZZZZZ		1	19:05				
ZZZZZZ		1	19:10				
ZZZZZZ		1	19:16				
CCV		1	19:22	Al	Ca	Fe	Mg
CCB		1	19:27	Al	Ca	Fe	Mg
ZZZZZZ		1	19:33				
ZZZZZZ		1	19:39				
ZZZZZZ		1	19:44				
ZZZZZZ		1	19:50				
ZZZZZZ		1	19:56				
ZZZZZZ		5	20:01				
ZZZZZZ		1	20:07				
ZZZZZZ		1	20:13				
ZZZZZZ		1	20:18				
ZZZZZZ		1	20:24				
CCV		1	20:29	Al	Ca	Fe	Mg
CCB		1	20:35	Al	Ca	Fe	Mg
ZZZZZZ		1	20:41				
ZZZZZZ		1	20:46				
ZZZZZZ		1	20:52				
ZZZZZZ		1	20:58				
ZZZZZZ		1	21:03				
ZZZZZZ		1	21:09				
ZZZZZZ		1	21:15				
CRI		1	21:20	Al	Ca	Fe	Mg
ICSA		1	21:26	Al	Ca	Fe	Mg
ICSAB		1	21:32	Al	Ca	Fe	Mg
CCV		1	21:37	Al	Ca	Fe	Mg
CCB		1	21:43	Al	Ca	Fe	Mg
ZZZZZZ		1	21:48				
ZZZZZZ		1	21:54				
ZZZZZZ		1	22:00				
ZZZZZZ		1	22:05				
ZZZZZZ		1	22:11				
ZZZZZZ		1	22:17				
ZZZZZZ		1	22:22				
ZZZZZZ		1	22:28				
PBWSD13ICW2		1	22:34		Ca		Mg
ZZZZZZ		1	22:39				
CCV		1	22:45	Al	Ca	Fe	Mg
CCB		1	22:51	Al	Ca	Fe	Mg
ZZZZZZ		5	22:56				
CRI		1	23:02	Al	Ca	Fe	Mg

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: TJA 61 ICP **File Name:** BSD16A

Date: 4/16/02 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements		
ICSA		1	23:07 Al	Ca	Fe	Mg
ICSAB		1	23:13 Al	Ca	Fe	Mg
CCV		1	23:19 Al	Ca	Fe	Mg
CCB		1	23:24 Al	Ca	Fe	Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: LEEMAN MERCURY AN **File Name:** DSD19A

Date: 4/19/02 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Std1			10:19	Hg
Std2			10:23	Hg
Std3			10:28	Hg
Std4			10:32	Hg
Std5			10:36	Hg
Std6			10:41	Hg
ICV		1	10:45	Hg
ICB		1	10:49	Hg
CRA		1	10:54	Hg
CCV		1	10:58	Hg
CCB		1	11:02	Hg
ZZZZZZ		1	11:07	
ZZZZZZ		1	11:11	
ZZZZZZ		1	11:15	
ZZZZZZ		1	11:20	
ZZZZZZ		1	11:24	
ZZZZZZ		1	11:28	
ZZZZZZ		1	11:33	
ZZZZZZ		1	11:37	
ZZZZZZ		1	11:41	
ZZZZZZ		1	11:45	
CCV		1	11:50	Hg
CCB		1	11:54	Hg
ZZZZZZ		1	11:58	
ZZZZZZ		1	12:03	
ZZZZZZ		1	12:07	
ZZZZZZ		1	12:11	
ZZZZZZ		1	12:16	
ZZZZZZ		1	12:20	
ZZZZZZ		1	12:24	
ZZZZZZ		1	12:28	
ZZZZZZ		1	12:33	
ZZZZZZ		1	12:37	
CCV		1	12:41	Hg
CCB		1	12:46	Hg
ZZZZZZ		1	12:50	
ZZZZZZ		1	12:54	
ZZZZZZ		1	12:58	
ZZZZZZ		1	13:03	
LCSWSD16HGW1		1	13:07	Hg
PBWSD16HGW1		1	13:11	Hg
ZZZZZZ		1	13:15	
ZZZZZZ		1	13:20	
ZZZZZZ		1	13:24	
ZZZZZZ		1	13:28	
CCV		1	13:32	Hg
CCB		1	13:37	Hg
ZZZZZZ		1	13:41	
ZZZZZZ		1	13:45	
ZZZZZZ		1	13:50	

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: LEEMAN MERCURY AN **File Name:** DSD19A

Date: 4/19/02 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	13:54	
ZZZZZZ		1	13:58	
ZZZZZZ		1	14:02	
ZZZZZZ		1	14:07	
ZZZZZZ		1	14:11	
ZZZZZZ		1	14:15	
ZZZZZZ		1	14:19	
CCV		1	14:24	Hg
CCB		1	14:28	Hg
ZZZZZZ		1	14:32	
WS0791-002	\X-47-MW13D-01-040402	1	14:37	Hg
WS0791-003	\X-47-MW13S-01-040402	1	14:41	Hg
WS0811-001	JAX-47-USGS(S)-040902	1	14:45	Hg
WS0811-002	JAX-47-USGS(D)-040902	1	14:50	Hg
ZZZZZZ		1	14:54	
ZZZZZZ		1	14:58	
ZZZZZZ		1	15:02	
CCV		1	15:07	Hg
CCB		1	15:11	Hg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: AGILENT 7500 ICP-MS **File Name:** FSD17F

Date: 4/17/02 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements						
Cal Blank		1	15:40	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Cal Std 1		1	15:48	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Cal Std 2		1	15:55	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Cal Std 3		1	16:03	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Cal Std 4		1	16:11	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICV		1	16:18	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICB		1	16:26	Al	Ca	Fe	Mg	Mo	K	Na	Tl
PQL		1	16:34	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CRI		5	16:41	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICSA		1	16:49	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICSAB		1	16:57	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Blank		1	17:04	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CCV		1	17:12	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CCB		1	17:20	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ZZZZZZ		5	17:28								
ZZZZZZ		5	17:35								
ZZZZZZ		10	17:43								
ZZZZZZ		1	17:51								
ZZZZZZ		5	17:58								
PBWSD13ICW0		5	18:06								Tl
LCSWSD13ICW0		10	18:14								Tl
ZZZZZZ		1	18:21								
ZZZZZZ		5	18:29								
ZZZZZZ		5	18:37								
CCV		1	18:45	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CCB		1	18:52	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ZZZZZZ		5	19:00								
ZZZZZZ		5	19:08								
ZZZZZZ		5	19:16								
ZZZZZZ		5	19:23								
WS0811-001	JAX-47-USGS(S)-040902	5	19:31								Tl
WS0811-002	JAX-47-USGS(D)-040902	5	19:39								Tl
CRI		5	19:46	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICSA		1	19:54	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICSAB		1	20:02	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ZZZZZZ		1	20:09								
CCV		1	20:17	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CCB		1	20:25	Al	Ca	Fe	Mg	Mo	K	Na	Tl

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO162-3

Instrument ID: AGILENT 7500 ICP-MS **File Name:** FSD23A

Date: 4/23/02 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements						
Cal Blank		1	10:10	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Cal Std 1		1	10:17	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Cal Std 2		1	10:25	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Cal Std 3		1	10:33	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Cal Std 4		1	10:41	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICV		1	10:48	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICB		1	10:56	Al	Ca	Fe	Mg	Mo	K	Na	Tl
PQL		1	11:04	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CRI		5	11:11	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICSA		1	11:19	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICSAB		1	11:27	Al	Ca	Fe	Mg	Mo	K	Na	Tl
Blank		1	11:34	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CCV		1	11:42	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CCB		1	11:50	Al	Ca	Fe	Mg	Mo	K	Na	Tl
WS0791-002	\X-47-MW13D-01-040402	5	11:57								Tl
WS0791-003	\X-47-MW13S-01-040402	5	12:05								Tl
PBWSD13ICW2		5	12:13								Tl
LCSWSD13ICW2		10	12:21								Tl
ZZZZZZ		1	12:28								
ZZZZZZ		5	12:36								
ZZZZZZ		5	12:44								
ZZZZZZ		5	12:51								
ZZZZZZ		5	12:59								
ZZZZZZ		5	13:07								
CCV		1	13:15	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CCB		1	13:22	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ZZZZZZ		10	13:30								
ZZZZZZ		1	13:38								
ZZZZZZ		5	13:45								
ZZZZZZ		5	13:53								
ZZZZZZ		5	14:01								
ZZZZZZ		5	14:09								
CRI		5	14:16	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICSA		1	14:24	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ICSAB		1	14:32	Al	Ca	Fe	Mg	Mo	K	Na	Tl
ZZZZZZ		1	14:39								
CCV		1	14:47	Al	Ca	Fe	Mg	Mo	K	Na	Tl
CCB		1	14:55	Al	Ca	Fe	Mg	Mo	K	Na	Tl

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11638	--	--	--	--	--	--
SDev	112.4300	--	--	--	--	--	--
%RSD	.9660178	--	--	--	--	--	--
#1	11718	--	--	--	--	--	--
#2	11559	--	--	--	--	--	--

Method: 61E Sample Name: WS0811-005 Operator:
Run Time: 04/14/02 19:00:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Ba	Be	B	Ca	Cr	Co
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.28493	.02935	-.00003	.02821	53.266	.00754	.00273
SDev	.00253	.00073	.00010	.00101	.962	.00016	.00135
%RSD	.88694	2.4923	338.79	3.5915	1.8058	2.1539	49.422
#1	.28671	.02987	.00004	.02750	53.946	.00766	.00178
#2	.28314	.02883	-.00010	.02893	52.586	.00743	.00369

Elem	Cu	Fe	Mg	Mn	Ni	K	Si
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.00010	33.051	3.1195	.03243	.00222	2.1396	3.6607
SDev	.00064	.695	.0541	.00069	.00290	.1063	.0705
%RSD	672.70	2.1029	1.7341	2.1328	130.57	4.9692	1.9267
#1	-.00036	33.542	3.1577	.03292	.00427	2.0645	3.7106
#2	.00055	32.559	3.0812	.03194	.00017	2.2148	3.6108

Elem	Ag	Na	V	Zn	Cd	Pb	As
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	-.00029	2.2786	.00740	.00339	.00133	-.00299	.02743
SDev	.00218	.0534	.00319	.00043	.00086	.00003	.00538
%RSD	740.91	2.3428	43.142	12.615	64.477	1.1195	19.624
#1	-.00183	2.3164	.00514	.00369	.00072	-.00301	.02363
#2	.00124	2.2409	.00966	.00308	.00193	-.00297	.03124

Elem	Se	Sb
Units	mg/L	mg/L
Avge	-.00494	.00565
SDev	.01473	.00094
%RSD	298.34	16.598
#1	-.01535	.00631
#2	.00548	.00498

Sample: JAX-47-536-MW03-01-0409

33.051 mg/L x 1000 = 33051 mg/L ✓

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11789	--	--	--	--	--	--
SDev	246.0732	--	--	--	--	--	--

Entry Review for: **Nitrogen-Ammonia as N**

QC Batch SE06NAW3
Analyst Init: PAG Prep Init: N/A Cal Std ID: SWL1045
Date Analyzed: 05/04/02 Prep Date: N/A LCS Std ID: SWL817

Sample	Site ID	Det	Initial Amt	Final Vol	DF	Result	Method	Rpt Result	TS(%)	PQL	Adj PQL	%RPD	% Recovery	Report Notes
MBLANK		NH3.W	5 mL	5 mL	1	-0.0146 mg/L	350.1	<0.1 mg/L	N/A	0.10	0.1			
LCS		NH3.W	5 mL	5 mL	1	1.0207 mg/L	350.1	1.02 mg/L	N/A	0.10	0.1		102	
WS0807-2	CW-10~	NH3.W	5 mL	5 mL	1	-0.0187 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0807-2 DUP	CW-10~	NH3.W	5 mL	5 mL	1	-0.0155 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0807-2 MS	CW-10~	NH3.W	5 mL	5 mL	1	1.8556 mg/L	350.1	1.8 mg/L	N/A	0.1	0.10		93	
WS0807-3	DUP-06~	NH3.W	5 mL	5 mL	1	0.0034 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0807-4	CW-26~	NH3.W	5 mL	5 mL	1	-0.0057 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0807-5	CW-44~	NH3.W	5 mL	5 mL	1	-0.0156 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0807-6	CW-47~	NH3.W	5 mL	5 mL	1	-0.0145 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0811-1	JAX-47-USGS(S)-040902~	NH3.W	5 mL	5 mL	1	0.3034 mg/L	350.1	0.3 mg/L	N/A	0.1	0.10			
WS0811-2	JAX-47-USGS(D)-040902~	NH3.W	5 mL	5 mL	1	-0.0187 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0811-3	JAX-47-MW10S-01-040902~	NH3.W	5 mL	5 mL	1	0.0365 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0811-4	JAX-47-MW20S-01-040902~	NH3.W	5 mL	5 mL	1	0.0409 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0811-5	JAX-47-536-MW03-01-040902~	NH3.W	5 mL	5 mL	1	1.7876 mg/L	350.1	1.8 mg/L	N/A	0.1	0.10			
WS0816-1	SP-9~	NH3.W	5 mL	5 mL	1	-0.0187 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0816-2	FD!~	NH3.W	5 mL	5 mL	1	0.1069 mg/L	350.1	0.1 mg/L	N/A	0.1	0.10			
WS0817-2	FB-07~	NH3.W	5 mL	5 mL	1	-0.0097 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			
WS0817-3	WSW-1~	NH3.W	5 mL	5 mL	1	0.0581 mg/L	350.1	<0.10 mg/L	N/A	0.1	0.10			

Entered By: P. Hanley **Date:** 5.6.02 **Approved By:** _____ **Date:** _____

Katahdin Analytical Services 5000160

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: G. ROOF **DATE:** JUNE 24, 2002

FROM: BERNARD F SPADA III **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION- VOC/OVG/SVOC/PEST/PCB/HERB/OPPEST
CTO 162, NAS JACKSONVILLE
SDG 162-3

SAMPLES: 21/Aqueous

JAX-47-536-MW03-01-0409	JAX-47-DUP1-040802	JAX-47-MW10S-01-040902
JAX-47-MW11D-01-040402	JAX-47-MW11S-01-040402	JAX-47-MW13D-01-040402*
JAX-47-MW13S-01-040402*	JAX-47-MW15D-01-040802	JAX-47-MW15S-01-040802
JAX-47-MW16D-01-040502	JAX-47-MW16S-01-040502	JAX-47-MW17D-01-040402
JAX-47-MW17S-01-040402	JAX-47-MW18D-01-040502	JAX-47-MW18S-01-040502
JAX-47-MW20S-01-040902	~~JAX-47-TB040502~~	~~JAX-47-TB040802~~
~~JAX-47-TB040902~~	JAX-47-USGS(D)-040902*	JAX-47-USGS(S)-040902*

OVERVIEW

The sample set for CTO 162, NAS Jacksonville, SDG 162-3 consists of seventeen (17) environmental aqueous samples, three (3) trip blanks, and one (1) field duplicate. The duplicate pair included in this SDG is JAX-47-DUP1-040802 and JAX-47-MW15S-01-040802. All environmental samples were analyzed for volatile organic compounds (VOC), pesticides (PEST), herbicides (HERB), and organophosphorus pesticides (OPPEST) by SW-846 Methods 8260B, 8081A, 8151A, and 8141A. The trip blanks (JAX-47-TB040502, JAX-47-TB040902, and JAX-47-TB040802) were analyzed for VOC only. The samples denoted with an asterisk (*) were also analyzed for semivolatile organic compounds (SVOC) and polychlorinated biphenyls (PCB) by SW-846 Methods 8270C and 8082. All environmental samples except JAX-47-DUP1-040802 were analyzed for organic volatile gases (OVG) by Method MOD RSK-175.

The samples were collected by TetraTech NUS on April 4, 5, 8, and 9, 2002 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, 8081A, 8082, 8151A, 8141A, and MOD RSK-175 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial and continuing calibration
• Laboratory method and field quality control blank results
* • Field duplicate precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Volatile

The following compounds were detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Chloromethane	0.6 µg/L	3.0 µg/L
Methylene Chloride	2.0 µg/L	20 µg/L
Bromomethane	2.0 µg/L	10 µg/L
1,2,4-Trichlorobenzene	0.6 µg/L	3.0 µg/L
1,2-Dichlorobenzene	0.4 µg/L	2.0 µg/L
1,2-Dibromo-3-chloropropane	1.0 µg/L	5.0 µg/L
4-Methyl-2-pentanone	0.8 µg/L	4.0 µg/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for the aforementioned compounds below the blank action level were qualified as non-detected, U. Quality control samples were not qualified due to blank contamination.

Semivolatile

The following compounds were detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Bis(2-ethylhexyl)phthalate	23 µg/L	230 µg/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. The positive result for the bis(2-ethylhexyl)phthalate below the blank action level was qualified as non-detected, U. Quality control samples were not qualified due to blank contamination.

Pesticide

No qualifiers were assigned to this fraction.

PCB

No qualifiers were assigned to this fraction.

Herbicide

No qualifiers were assigned to this fraction.

OPPEST

The initial calibration exceeded the 50% relative standard deviation (RSD) quality control criteria for TEPP on the RTX-OPP column. No action was taken because the other column was compliant.

Several continuing calibrations exceeded the 50% difference (%D) quality control criteria for naled on the RTX-OPP column. No action was taken because the other column was compliant.

Organic Volatile Gasses

No qualifiers were assigned to this fraction.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on method blank contamination.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Bernard F. Spada III
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-536-MW03-01-0409
samp_date	4/9/2002
lab_id	WS0811-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	2	J	P
2-BUTANONE	26		
2-HEXANONE	2	J	P
4-METHYL-2-PENTANONE	5	U	A
ACETONE	85		
BENZENE	2	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	2	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	4	J	P
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	1	J	P

nsample	JAX-47-536-MW03-01-0409
samp_date	4/9/2002
lab_id	WS0811-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	3	J	P
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	4	J	P
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	0.9	J	P
TOTAL XYLENES	9		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	2	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-DUP01-040802
samp_date	4/8/2002
lab_id	WS0800-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	JAX-47-MW15S-01-040802

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-DUP01-040802
samp_date	4/8/2002
lab_id	WS0800-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	JAX-47-MW15S-01-040802

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW10S-01-040902
samp_date	4/9/2002
lab_id	WS0811-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	0.7	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-MW10S-01-040902
samp_date	4/9/2002
lab_id	WS0811-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	WS0791-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	1	J	P
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	0.5	J	P

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	WS0791-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	WS0791-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	0.6	J	P
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	A
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	2	J	P
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	4	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	18		
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	0.4	J	P
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	18		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	WS0791-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	43		
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5		
ISOPROPYLBENZENE	5		
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	12		
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	0.5	J	P
TOTAL XYLENES	20		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	23		
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	WS0791-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	0.6	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	WS0791-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	WS0791-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	24		
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	10		
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	2	J	P
1,4-DICHLOROBENZENE	9		
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	0.6	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	8		
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	WS0791-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	2	J	P
ISOPROPYLBENZENE	0.6	J	P
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	6		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW15D-01-040802
samp_date	4/8/2002
lab_id	WS0800-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	0.5	J	P

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW15D-01-040802
samp_date	4/8/2002
lab_id	WS0800-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	4	J	P
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	4	J	P
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	WS0800-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	WS0800-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	WS0791-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	1	J	P
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	3	J	P

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	WS0791-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	0.6	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	WS0791-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	0.8	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	0.6	J	P

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	WS0791-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	WS0791-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	11		
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	7	U	A
CARBON DISULFIDE	1	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	0.4	J	P
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	400		

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	WS0791-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5		
ISOPROPYLBENZENE	3	J	P
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	2	J	P
TOTAL XYLENES	54		
TRANS-1,2-DICHLOROETHENE	10		
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	2	J	P

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	WS0791-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	8	U	A
CARBON DISULFIDE	0.7	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	23		

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	WS0791-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	44		
ISOPROPYLBENZENE	10		
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	2	J	P
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	21		
TOLUENE	0.4	J	P
TOTAL XYLENES	750		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	2	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	WS0791-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	0.8	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	1	J	P
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	WS0791-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	WS0791-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	A
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	6	U	A
CARBON DISULFIDE	2	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	A
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	WS0791-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW20S-01-040902
samp_date	4/9/2002
lab_id	WS0811-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-MW20S-01-040902
samp_date	4/9/2002
lab_id	WS0811-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-TB040502
samp_date	4/5/2002
lab_id	WS0791-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	2	J	P
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-TB040502
samp_date	4/5/2002
lab_id	WS0791-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	2	J	P
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-TB040802
samp_date	4/8/2002
lab_id	WS0800-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	0.7	J	P
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-TB040802
samp_date	4/8/2002
lab_id	WS0800-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-TB040902
samp_date	4/9/2002
lab_id	WS0811-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	0.4	J	P
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	1	J	P
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	3	J	P
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	0.6	J	P
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-TB040902
samp_date	4/9/2002
lab_id	WS0811-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	WS0811-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	0.8	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	WS0811-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	WS0811-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	A
CARBON DISULFIDE	0.8	J	P
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	WS0811-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHAN	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	WS0791-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	10	U	
2,2'-OXYBIS(1-CHLOROPROPA	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENO	25	U	
4-BROMOPHENYL PHENYL ET	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ET	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANTHRACENE	10	U	
ATRAZINE	10	U	

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	WS0791-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	10	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHA	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALAT	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CAPROLACTAM	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADI	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
N-NITROSO-DI-N-PROPYLAMIN	10	U	
N-NITROSODIPHENYLAMINE	10	U	
NAPHTHALENE	10	U	

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	WS0791-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PYRENE	10	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	WS0791-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	10	U	
2,2'-OXYBIS(1-CHLOROPROPA	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	31		
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENO	25	U	
4-BROMOPHENYL PHENYL ET	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ET	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANTHRACENE	10	U	
ATRAZINE	10	U	

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	WS0791-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	10	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHA	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALAT	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CAPROLACTAM	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	2	J	P
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADI	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
N-NITROSO-DI-N-PROPYLAMIN	10	U	
N-NITROSODIPHENYLAMINE	10	U	
NAPHTHALENE	11		

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	WS0791-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	1	J	P
PHENOL	10	U	
PYRENE	10	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	WS0811-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	11	U	
2,2'-OXYBIS(1-CHLOROPROPA	11	U	
2,4,5-TRICHLOROPHENOL	28	U	
2,4,6-TRICHLOROPHENOL	11	U	
2,4-DICHLOROPHENOL	11	U	
2,4-DIMETHYLPHENOL	11	U	
2,4-DINITROPHENOL	28	U	
2,4-DINITROTOLUENE	11	U	
2,6-DINITROTOLUENE	11	U	
2-CHLORONAPHTHALENE	11	U	
2-CHLOROPHENOL	11	U	
2-METHYLNAPHTHALENE	11	U	
2-METHYLPHENOL	11	U	
2-NITROANILINE	28	U	
2-NITROPHENOL	11	U	
3,3'-DICHLOROBENZIDINE	11	U	
3-NITROANILINE	28	U	
4,6-DINITRO-2-METHYLPHENO	28	U	
4-BROMOPHENYL PHENYL ET	11	U	
4-CHLORO-3-METHYLPHENOL	11	U	
4-CHLOROANILINE	11	U	
4-CHLOROPHENYL PHENYL ET	11	U	
4-METHYLPHENOL	11	U	
4-NITROANILINE	28	U	
4-NITROPHENOL	28	U	
ACENAPHTHENE	11	U	
ACENAPHTHYLENE	11	U	
ACETOPHENONE	11	U	
ANTHRACENE	11	U	
ATRAZINE	11	U	

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	WS0811-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	11	U	
BENZO(A)ANTHRACENE	11	U	
BENZO(A)PYRENE	11	U	
BENZO(B)FLUORANTHENE	11	U	
BENZO(G,H,I)PERYLENE	11	U	
BENZO(K)FLUORANTHENE	11	U	
BIS(2-CHLOROETHOXY)METHA	11	U	
BIS(2-CHLOROETHYL)ETHER	11	U	
BIS(2-ETHYLHEXYL)PHTHALAT	11	U	A
BUTYL BENZYL PHTHALATE	11	U	
CAPROLACTAM	11	U	
CARBAZOLE	11	U	
CHRYSENE	11	U	
DI-N-BUTYL PHTHALATE	11	U	
DI-N-OCTYL PHTHALATE	11	U	
DIBENZO(A,H)ANTHRACENE	11	U	
DIBENZOFURAN	11	U	
DIETHYL PHTHALATE	11	U	
DIMETHYL PHTHALATE	11	U	
FLUORANTHENE	11	U	
FLUORENE	11	U	
HEXACHLOROBENZENE	11	U	
HEXACHLOROBUTADIENE	11	U	
HEXACHLOROCYCLOPENTADI	11	U	
HEXACHLOROETHANE	11	U	
INDENO(1,2,3-CD)PYRENE	11	U	
ISOPHORONE	11	U	
N-NITROSO-DI-N-PROPYLAMIN	11	U	
N-NITROSODIPHENYLAMINE	11	U	
NAPHTHALENE	11	U	

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	WS0811-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	11	U	
PENTACHLOROPHENOL	28	U	
PHENANTHRENE	11	U	
PHENOL	11	U	
PYRENE	11	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	WS0811-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	10	U	
2,2'-OXYBIS(1-CHLOROPROPA	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENO	25	U	
4-BROMOPHENYL PHENYL ET	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ET	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ACETOPHENONE	10	U	
ANTHRACENE	10	U	
ATRAZINE	10	U	

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	WS0811-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
BENZALDEHYDE	10	U	
BENZO(A)ANTHRACENE	10	U	
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHA	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALAT	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CAPROLACTAM	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DI-N-BUTYL PHTHALATE	0.9	J	P
DI-N-OCTYL PHTHALATE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADI	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
N-NITROSO-DI-N-PROPYLAMIN	10	U	
N-NITROSODIPHENYLAMINE	10	U	
NAPHTHALENE	10	U	

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	WS0811-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
NITROBENZENE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PYRENE	10	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-536-MW03-01-040902
samp_date	4/9/2002
lab_id	C2D100272004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-536-MW03-01-040902
samp_date	4/9/2002
lab_id	C2D100272004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-DUP01-040802
samp_date	4/8/2002
lab_id	C2D090226004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	JAX-47-MW15S-01-040802

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	10	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-DUP01-040802
samp_date	4/8/2002
lab_id	C2D090226004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	JAX-47-MW15S-01-040802

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW10S-01-040902
samp_date	4/9/2002
lab_id	C2D100272002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW10S-01-040902
samp_date	4/9/2002
lab_id	C2D100272002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	C2D090226011
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	C2D090226011
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	C2D090226010
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	C2D090226010
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	C2D090226008
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	C2D090226008
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	C2D090226009
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	C2D090226009
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW15D-01-040802
samp_date	4/8/2002
lab_id	C2D090226002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW15D-01-040802
samp_date	4/8/2002
lab_id	C2D090226002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	C2D090226003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	C2D090226003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	C2D090226012
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	C2D090226012
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	C2D090226013
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	C2D090226013
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	C2D090226006
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	C2D090226006
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	C2D090226007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	C2D090226007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	C2D090226014
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	C2D090226014
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	C2D090226005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	C2D090226005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-MW20S-01-040902
samp_date	4/9/2002
lab_id	C2D100272003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-MW20S-01-040902
samp_date	4/9/2002
lab_id	C2D100272003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	C2D100272005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OPEST

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	C2D100272005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	C2D100272001
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
AZINPHOS METHYL	1.0	U	
BOLSTAR	1.0	U	
CHLORPYRIFOS	1.0	U	
COUMAPHOS	1.0	U	
DEMENTON-O	1.0	U	
DEMETON	1.0	U	
DEMETON-S	1.0	U	
DIAZINON	1.0	U	
DICHLORVOS	1.0	U	
DIMETHOATE	1.0	U	
DISULFOTON	1.0	U	
EPN	1.0	U	
ETHOPROP	1.0	U	
ETHYL PARATHION	1.0	U	
FAMPHUR	1.0	U	
FENSULFOTHION	1.0	U	
FENTHION	1.0	U	
MALATHION	1.0	U	
MERPHOS	1.0	U	
METHYL PARATHION	1.0	U	
MEVINPHOS	1.0	U	
NALED	1.0	U	
O,O,O-TRIETHYL PHOSPHOROTHIOATE	1.0	U	
PHORATE	1.0	U	
RONNEL	1.0	U	
SULFOTEPP	1.0	U	
TEPP	1.0	U	
TETRACHLOROVINPHOS	1.0	U	
THIONAZIN	1.0	U	
TOKUTHION	1.0	U	

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	C2D100272001
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
TRICHLORONATE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-536-MW03-01-040902
samp_date	4/9/2002
lab_id	WS0811-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	48		
4,4'-DDE	0.92	J	P
4,4'-DDT	2.3	U	
ALDRIN	1.2	U	
ALPHA-BHC	4.2		
ALPHA-CHLORDANE	1.2	U	
BETA-BHC	1.2	U	
DELTA-BHC	4.6		
DIELDRIN	2.3	U	
ENDOSULFAN I	1.2	U	
ENDOSULFAN II	2.3	U	
ENDOSULFAN SULFATE	2.3	U	
ENDRIN	2.3	U	
ENDRIN ALDEHYDE	2.3	U	
ENDRIN KETONE	2.3	U	
GAMMA-BHC (LINDANE)	1.2	U	
GAMMA-CHLORDANE	1.2	U	
HEPTACHLOR	1.2	U	
HEPTACHLOR EPOXIDE	1.2	U	
METHOXYCHLOR	12	U	
TOXAPHENE	23	U	

nsample	JAX-47-DUP01-040802
samp_date	4/8/2002
lab_id	WS0800-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	JAX-47-MW15S-01-040802

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX-47-MW10S-01-040902
samp_date	4/9/2002
lab_id	WS0811-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	WS0791-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	WS0791-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.48	U	
4,4'-DDE	0.48	U	
4,4'-DDT	0.48	U	
ALDRIN	0.24	U	
ALPHA-BHC	4.8		
ALPHA-CHLORDANE	0.24	U	
BETA-BHC	1.7		
DELTA-BHC	4.2		
DIELDRIN	0.48	U	
ENDOSULFAN I	0.24	U	
ENDOSULFAN II	0.48	U	
ENDOSULFAN SULFATE	0.48	U	
ENDRIN	0.48	U	
ENDRIN ALDEHYDE	0.48	U	
ENDRIN KETONE	0.48	U	
GAMMA-BHC (LINDANE)	8.4		
GAMMA-CHLORDANE	0.24	U	
HEPTACHLOR	0.24	U	
HEPTACHLOR EPOXIDE	0.24	U	
METHOXYCHLOR	2.4	U	
TOXAPHENE	4.8	U	

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	WS0791-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	1.9		
4,4'-DDE	0.10	U	
4,4'-DDT	0.17		
ALDRIN	0.050	U	
ALPHA-BHC	0.057		
ALPHA-CHLORDANE	0.050	U	
AROCLOR-1016	0.50	U	
AROCLOR-1221	0.50	U	
AROCLOR-1232	0.50	U	
AROCLOR-1242	0.50	U	
AROCLOR-1248	0.50	U	
AROCLOR-1254	0.50	U	
AROCLOR-1260	0.50	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.071		
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	WS0791-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	3.1		
4,4'-DDE	0.96	U	
4,4'-DDT	1.5		
ALDRIN	0.48	U	
ALPHA-BHC	14		
ALPHA-CHLORDANE	0.48	U	
AROCLOR-1016	0.50	U	
AROCLOR-1221	0.50	U	
AROCLOR-1232	0.50	U	
AROCLOR-1242	0.50	U	
AROCLOR-1248	0.50	U	
AROCLOR-1254	0.50	U	
AROCLOR-1260	0.50	U	
BETA-BHC	1.2		
DELTA-BHC	10		
DIELDRIN	0.96	U	
ENDOSULFAN I	0.48	U	
ENDOSULFAN II	0.96	U	
ENDOSULFAN SULFATE	0.96	U	
ENDRIN	0.96	U	
ENDRIN ALDEHYDE	0.96	U	
ENDRIN KETONE	0.96	U	
GAMMA-BHC (LINDANE)	22		
GAMMA-CHLORDANE	0.48	U	
HEPTACHLOR	0.48	U	
HEPTACHLOR EPOXIDE	0.48	U	
METHOXYCHLOR	4.8	U	
TOXAPHENE	9.6	U	

nsample	JAX-47-MW15D-01-040802
samp_date	4/8/2002
lab_id	WS0800-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	WS0800-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	WS0791-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	WS0791-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	WS0791-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.26		
4,4'-DDE	0.10	U	
4,4'-DDT	0.052	J	P
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.15		
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.10		
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	WS0791-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	6.5		
4,4'-DDE	0.48	U	
4,4'-DDT	1.1		
ALDRIN	0.24	U	
ALPHA-BHC	0.24	U	
ALPHA-CHLORDANE	4.0		
BETA-BHC	0.24	U	
DELTA-BHC	0.24	U	
DIELDRIN	0.48	U	
ENDOSULFAN I	0.24	U	
ENDOSULFAN II	0.48	U	
ENDOSULFAN SULFATE	0.48	U	
ENDRIN	0.48	U	
ENDRIN ALDEHYDE	0.48	U	
ENDRIN KETONE	0.48	U	
GAMMA-BHC (LINDANE)	0.24	U	
GAMMA-CHLORDANE	0.24	U	
HEPTACHLOR	0.60		
HEPTACHLOR EPOXIDE	0.24	U	
METHOXYCHLOR	2.4	U	
TOXAPHENE	4.8	U	

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	WS0791-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	WS0791-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-MW20S-01-040902
samp_date	4/9/2002
lab_id	WS0811-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	WS0811-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
AROCLOR-1016	0.50	U	
AROCLOR-1221	0.50	U	
AROCLOR-1232	0.50	U	
AROCLOR-1242	0.50	U	
AROCLOR-1248	0.50	U	
AROCLOR-1254	0.50	U	
AROCLOR-1260	0.50	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	WS0811-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
AROCLOR-1016	0.50	U	
AROCLOR-1221	0.50	U	
AROCLOR-1232	0.50	U	
AROCLOR-1242	0.50	U	
AROCLOR-1248	0.50	U	
AROCLOR-1254	0.50	U	
AROCLOR-1260	0.50	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX-47-DUP01-040802
samp_date	4/8/2002
lab_id	C2D090226004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	JAX-47-MW15S-01-040802

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	C2D090226011
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	0.35	J	P
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	C2D090226010
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	0.57	J	P
2,4,5-TP (SILVEX)	0.31	J	P
2,4-D	4	U	
2,4-DB	0.51	J	P
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	0.34	J	P
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.11	J	P

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	C2D090226003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	C2D090226012
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	C2D090226013
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	C2D090226006
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	C2D090226007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	0.61	J	P
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	C2D090226014
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	C2D090226005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX47-536-MW03-01-04090
samp_date	4/9/2002
lab_id	C2D100272004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1.1		
2,4,5-TP (SILVEX)	1	U	
2,4-D	0.55	J	P
2,4-DB	0.51	J	P
DALAPON	2	U	
DICAMBA	0.78	J	P
DICHLOROPROP	0.64	J	P
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	73	J	P
PENTACHLOROPHENOL	0.083	J	P

nsample	JAX47-MW10S-01-040902
samp_date	4/9/2002
lab_id	C2D100272002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: HERB

nsample	JAX47-MW20S-01-040902
samp_date	4/9/2002
lab_id	C2D100272003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX47-USGS(D)-040902
samp_date	4/9/2002
lab_id	C2D100272005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

nsample	JAX47-USGS(S)-040902
samp_date	4/9/2002
lab_id	C2D100272001
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
2,4,5-T	1	U	
2,4,5-TP (SILVEX)	1	U	
2,4-D	4	U	
2,4-DB	4	U	
DALAPON	2	U	
DICAMBA	2	U	
DICHLOROPROP	4	U	
DINOSEB	0.6	U	
MCPA	400	U	
MCPP	400	U	
PENTACHLOROPHENOL	0.5	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OVG

nsample	JAX-47-536-MW03-01-040902
samp_date	4/9/2002
lab_id	0204266-07A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	1800		

nsample	JAX-47-MW10S-01-040902
samp_date	4/9/2002
lab_id	0204266-05A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	10	U	

nsample	JAX-47-MW11D-01-040402
samp_date	4/4/2002
lab_id	0204189-07A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	10	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OVG

nsample	JAX-47-MW11S-01-040402
samp_date	4/4/2002
lab_id	0204189-06A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	480		

nsample	JAX-47-MW13D-01-040402
samp_date	4/4/2002
lab_id	0204189-01A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	10	U	

nsample	JAX-47-MW13S-01-040402
samp_date	4/4/2002
lab_id	0204189-02A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	13		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OVG

nsample	JAX-47-MW15D-01-040802
samp_date	4/8/2002
lab_id	0204266-02A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	110		

nsample	JAX-47-MW15S-01-040802
samp_date	4/8/2002
lab_id	0204266-01A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	20		

nsample	JAX-47-MW16D-01-040502
samp_date	4/5/2002
lab_id	0204189-08A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	190		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OVG

nsample	JAX-47-MW16S-01-040502
samp_date	4/5/2002
lab_id	0204189-09A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	62		

nsample	JAX-47-MW17D-01-040402
samp_date	4/4/2002
lab_id	0204189-04A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	5000		

nsample	JAX-47-MW17S-01-040402
samp_date	4/4/2002
lab_id	0204189-05A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	24		

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OVG

nsample	JAX-47-MW18D-01-040502
samp_date	4/5/2002
lab_id	0204189-10A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	19		

nsample	JAX-47-MW18S-01-040502
samp_date	4/5/2002
lab_id	0204189-03A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	80		

nsample	JAX-47-MW20S-01-040902
samp_date	4/9/2002
lab_id	0204266-06A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	10	U	

PROJ_NO: 3966

SDG: 162-3 MEDIA: WATER DATA FRACTION: OVG

nsample	JAX-47-USGS(D)-040902
samp_date	4/9/2002
lab_id	0204266-04A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	10	U	

nsample	JAX-47-USGS(S)-040902
samp_date	4/9/2002
lab_id	0204266-03A
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	10	U	
ETHENE	10	U	
METHANE	11		

DN:3966:4.4:05

PROJ_NO: 3966

SDG: WS4325 MEDIA: WATER DATA FRACTION:

nsample	JAX47-MW24-02
samp_date	11/12/2002
lab_id	WS4325-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	19		

nsample	JAX47-MW24-02
samp_date	11/12/2002
lab_id	WS4325-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	0.4	J	P
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	19		
TOTAL XYLENES	0.4	J	P
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	2	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

RECEIVED
DEC 18 2002
TETRA TECH NUS
JACKSONVILLE FL

PROJ_NO: 3966

SDG: WS4325 MEDIA: WATER DATA FRACTION:

nsample	JAX47-MW24-02
samp_date	11/12/2002
lab_id	WS4325-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/12/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4325-1
Client ID: JAX47-MW24-02
SDG: WS4325
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene		19	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)		19	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	J	1.0	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	J	2	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	J	0.4	1.0	5	5	0.3
	m+p-Xylenes	J	0.4	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/12/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4325-1
Client ID: JAX47-MW24-02
SDG: WS4325
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		111%				
2037-26-5	Toluene-D8		106%				
460-00-4	P-Bromofluorobenzene		108%				

Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date:
Received Date:
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WG1233-1
Client ID: WG1233-Blank
SDG: WS4325
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	J	0.5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.3
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date:
Received Date:
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WG1233-1
Client ID: WG1233-Blank
SDG: WS4325
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	J	0.8	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/12/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/20/02
Report Date: 11/21/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4325-1
Client ID: JAX47-MW24-02
SDG: WS4325
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1115
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
877-09-8	Tetrachloro-m-Xylene		70%				
2051-24-3	Decachlorobiphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/15/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/20/02
Report Date: 11/21/2002
Matrix: WATER
% Solids: NA

Lab ID: WG1115-1
Client ID: WG1115-Blank
SDG: WS4325
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1115
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
877-09-8	Tetrachloro-m-Xylene		82%				
2051-24-3	Decachlorobiphenyl		88%				

Katahdin Analytical Services 3000070

WS4325

HOLDING TIME
12/11/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX47-MW24-02	WS4325-1	NORMAL	WS4325	OV	11/12/02	11/18/02	11/18/02	6	0	6
UG/L	WG1233-BLANK	WG1233-1	P BLANK	WS4325	OV	11/18/02	11/18/02	11/18/02	0	0	0
UG/L	WG1233-LCS	WG1233-2	LCS	WS4325	OV	11/18/02	11/18/02	11/18/02	0	0	0
UG/L	JAX47-MW24-02	WS4325-1	NORMAL	WS4325	PEST	11/12/02	11/18/02	11/20/02	6	2	8
UG/L	WG1115-BLANK	WG1115-1	P BLANK	WS4325	PEST	11/15/02	11/18/02	11/20/02	3	2	5
UG/L	WG1115-LCS	WG1115-2	LCS	WS4325	PEST	11/15/02	11/18/02	11/20/02	3	2	5
UG/L	WG1115-LCSD	WG1115-3	LCSD	WS4325	PEST	11/15/02	11/18/02	11/20/02	3	2	5

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. ROOF**	**DATE:**	**JUNE 24, 2002**
FROM:	**ETHAN G. LEE**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – IRON, MANGANESE, TAL METALS, AND MISCELLANEOUS PARAMETERS**
NAS JACKSONVILLE – CTO 162
SAMPLE DELIVERY GROUP (SDG) – 162-4

SAMPLES: 11/AQUEOUS/

JAX-47-937-MW02S-01-041002
JAX-47-937-MW1S-01-041102
JAX-47-937-MW4S-01-041102
JAX-47-DUP03-041102
JAX-47-MW12S-01-041002
JAX-47-MW19S-01-041202
JAX-47-937-MW05S-01-041002
JAX-47-937-MW3S-01-041102
JAX-47-937-MW6D-01-041102
JAX-47-EB01-041102
JAX-47-MW14D-01-041002

Overview

The sample set for NAS Jacksonville, CTO 162, SDG 162-4, consists of eleven (11) aqueous environmental samples. One (1) field duplicate pair (JAX-47-DUP03-041102 / JAX-47-937-MW1S-01-041102) is included in this SDG.

All samples were analyzed for iron and manganese. Samles JAX-47-937-MW1S-01-041102, JAX-47-937-MW6D-01-041102, JAX-47-DUP03-041102, and JAX-47-EB01-041102 were analyzed for TAL metals. All samples except JAX-47-DUP03-041102 and JAX-47-EB01-041102 were analyzed for dissolved iron and manganese, ammonia, Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), chloride, nitrate, nitrite, sulfate, sulfide, Total Kjeldahl Nitrogen (TKN), and Total Organic Carbon (TOC). The samples were collected by Tetra Tech NUS April 10-12, 2002 and analyzed by Katahdin Analytical Services. Metals analyses except mercury were conducted using method SW846 6010B. Mercury analyses were conducted using method SW846 7470A. Ammonia analyses were conducted using method 350.1. BOD analyses were conducted using method EPA 405.1. COD analyses were conducted using method EPA 410.4. Chloride analyses were conducted using method EPA 325.2. Nitrate and Nitrite analyses were conducted using method 353.2. Sulfate analyses were conducted using method 375.4. Sulfide analyses were conducted using method 376.1. TKN analyses were conducted using method EPA 351.2. TOC analyses were conducted using method EPA 415.1.

Metals analyses except mercury were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using Cold Vapor Atomic Absorption (CVAA) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
  • Laboratory Blank Analyses

* • ICP Interference Results
• Matrix Spike Recoveries
* • Laboratory Duplicate Results
• Laboratory Control Sample Recoveries
* • ICP Serial Dilution Results
* • Field Duplicate Results
* • Sample Quantitation
* • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Aluminum	43.78 ug/L	218.9 ug/L
Antimony	3.66 ug/L	18.3 ug/L
Barium	0.86 ug/L	4.3 ug/L
Beryllium	1.15 ug/L	5.75 ug/L
Cadmium	0.91 ug/L	4.55 ug/L
Calcium	53.84 ug/L	269.2 ug/L
Chromium	1.29 ug/L	6.45 ug/L
Iron	12.11 ug/L	60.55 ug/L
Magnesium	46.51 ug/L	232.6 ug/L
Nickel	2.08 ug/L	10.4 ug/L
Selenium[(1)]	6.15 ug/L	30.75 ug/L
Silver	2.19 ug/L	10.95 ug/L
Thallium	0.11 ug/L	0.55 ug/L
Vanadium	0.82 ug/L	4.1 ug/L
Zinc	4.6 ug/L	23.0 ug/L

[(1)] Maximum concentration found in aqueous preparation blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results < action level were qualified (U) for blank contamination for aluminum, antimony, beryllium, iron, nickel, thallium, vanadium, and zinc. No validation action was necessary for the remaining analytes because the sample results were either greater than the action level or were nondetects.

Matrix Spike Recoveries Analysis

The matrix spike percent recovery (%R) for BOD was below the control limit of 75-125%. Positive results were qualified as estimated (J). Nondetected results were qualified as estimated (UJ).

Laboratory Control Sample Analysis

The LCS/LCSD %R for BOD analyzed on 4/18/02 was below the control limit of 80-120%. Positive results were qualified as estimated (J) and nondetected results were qualified as estimated (UJ) in sample JAX-47-MW19S-01-041202 only.

Notes

Sample JAX-47-DUP03-041102 was listed on the chain of custody for sulfide, BOD, chloride, nitrate, nitrite, and sulfate analyses and not for TAL metals analyses. Louis Knight requested that analyses be performed for TAL metals but not for miscellaneous parameters for this sample.

The CRI %R's for cadmium, lead, and selenium were above the control limit of 80-120%. No qualification action was required because all sample values were nondetects.

The ICP serial dilution percent difference for iron was above 10%. No qualification action was required because the initial sample result was <50X IDL.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/preparation blanks. BOD was qualified due to matrix spike noncompliance. BOD was qualified due to LCS noncompliance.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Ethan G. Lee
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D	=	MS/MSD Noncompliance
E	=	LCS/LCSD Noncompliance
F	=	Lab Duplicate Imprecision
G	=	Field Duplicate Imprecision
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	GFAA PDS - GFAA MSA's $r < 0.995$
K	=	ICP Interference - include ICSAB % R's
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	Pest/PCD% between columns for positive results
V	=	Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-937-MW02S-01-041
samp_date	4/10/2002
lab_id	WS0826-002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	10500		
MANGANESE	196		

nsample	JAX-47-937-MW05S-01-041
samp_date	4/10/2002
lab_id	WS0826-001
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	11000		
MANGANESE	214		

nsample	JAX-47-937-MW1S-01-0411
samp_date	4/11/2002
lab_id	WS0842-003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ALUMINUM	124	U	A
ANTIMONY	3.7	U	A
ARSENIC	746		
BARIUM	137		
BERYLLIUM	0.28	U	
CADMIUM	0.35	U	
CALCIUM	27800		
CHROMIUM	0.84	U	
COBALT	0.68	U	
COPPER	0.85	U	
IRON	31000		
LEAD	1.37	U	
MAGNESIUM	8860		
MANGANESE	37.8		
MERCURY	0.01	U	
NICKEL	0.93	U	
POTASSIUM	6720		
SELENIUM	3.42	U	
SILVER	0.94	U	
SODIUM	20800		
THALLIUM	0.11	U	A
VANADIUM	6.0		
ZINC	1.8	U	A

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-937-MW3S-01-0411
samp_date	4/11/2002
lab_id	WS0842-005
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	6790		
MANGANESE	96.5		

nsample	JAX-47-937-MW4S-01-0411
samp_date	4/11/2002
lab_id	WS0842-006
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	38400		
MANGANESE	465		

nsample	JAX-47-937-MW6D-01-0411
samp_date	4/11/2002
lab_id	WS0842-002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ALUMINUM	38.7	U	A
ANTIMONY	2.62	U	
ARSENIC	16.4		
BARIUM	56.3		
BERYLLIUM	0.31	U	A
CADMIUM	0.35	U	
CALCIUM	5570		
CHROMIUM	0.84	U	
COBALT	0.68	U	
COPPER	0.85	U	
IRON	15500		
LEAD	1.37	U	
MAGNESIUM	2910		
MANGANESE	21.0		
MERCURY	0.01	U	
NICKEL	1.2	U	A
POTASSIUM	826		
SELENIUM	3.42	U	
SILVER	0.94	U	
SODIUM	11200		
THALLIUM	0.18	U	A
VANADIUM	0.87	U	A
ZINC	8.2	U	A

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-DUP03-041102
samp_date	4/11/2002
lab_id	WS0842-007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	JAX-47-937-MW1S-01-0411

Parameter	Result	ValQual	QualCode
ALUMINUM	171	U	A
ANTIMONY	2.62	U	
ARSENIC	810		
BARIUM	148		
BERYLLIUM	0.28	U	
CADMIUM	0.35	U	
CALCIUM	29000		
CHROMIUM	0.84	U	
COBALT	0.68	U	
COPPER	0.85	U	
IRON	31400		
LEAD	1.37	U	
MAGNESIUM	9000		
MANGANESE	39.9		
MERCURY	0.02		
NICKEL	0.93	U	
POTASSIUM	6850		
SELENIUM	3.42	U	
SILVER	0.94	U	
SODIUM	20900		
THALLIUM	0.10	U	
VANADIUM	7.0		
ZINC	6.8	U	A

nsample	JAX-47-EB01-041102
samp_date	4/11/2002
lab_id	WS0842-004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ALUMINUM	16.60	U	
ANTIMONY	2.62	U	
ARSENIC	2.15	U	
BARIUM	0.24	U	
BERYLLIUM	0.28	U	
CADMIUM	0.35	U	
CALCIUM	6.1		
CHROMIUM	0.84	U	
COBALT	0.68	U	
COPPER	0.85	U	
IRON	6.91	U	
LEAD	1.37	U	
MAGNESIUM	5.58	U	
MANGANESE	0.88	U	
MERCURY	0.01	U	
NICKEL	0.93	U	
POTASSIUM	388.09	U	
SELENIUM	3.42	U	
SILVER	0.94	U	
SODIUM	13.10	U	
THALLIUM	0.10		
VANADIUM	0.58	U	
ZINC	0.36	U	

nsample	JAX-47-MW12S-01-041002
samp_date	4/10/2002
lab_id	WS0826-003
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	7.3	U	A
MANGANESE	53.7		

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-MW14D-01-041002
samp_date	4/10/2002
lab_id	WS0826-004
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	840		
MANGANESE	277		

nsample	JAX47-MW19S-01-041202
samp_date	4/12/2002
lab_id	WS0856-001
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	395		
MANGANESE	4.8		

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-937-MW02S-01-04100-F
samp_date	4/10/2002
lab_id	WS0826-007
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	10600		
MANGANESE	202		

nsample	JAX-47-937-MW05S-01-04100-F
samp_date	4/10/2002
lab_id	WS0826-006
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	9240		
MANGANESE	212		

nsample	JAX-47-937-MW1S-01-041102-F
samp_date	4/11/2002
lab_id	WS0842-010
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	30200		
MANGANESE	38.3		

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-937-MW3S-01-041102-F
samp_date	4/11/2002
lab_id	WS0842-008
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	6020		
MANGANESE	79.8		

nsample	JAX-47-937-MW4S-01-041102-F
samp_date	4/11/2002
lab_id	WS0842-011
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	42300		
MANGANESE	482		

nsample	JAX-47-937-MW6D-01-041102-F
samp_date	4/11/2002
lab_id	WS0842-009
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	14900		
MANGANESE	20.7		

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-MW12S-01-041002-F ✓
samp_date	4/10/2002
lab_id	WS0826-008
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	6.91	U	
MANGANESE	50.6		

nsample	JAX-47-MW14D-01-041002-F ✓
samp_date	4/10/2002
lab_id	WS0826-009
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	579		
MANGANESE	290		

nsample	JAX47-MW19S-01-041202-F ✓
samp_date	4/12/2002
lab_id	WS0856-002
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
IRON	320		
MANGANESE	4.5		

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-937-MW02S-01-041
samp_date	4/10/02
lab_id	WS0826-2
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.4		
BIOCHEMICAL OXYGEN DEMA	MG/L	6.0	UJ	D
CHEMICAL OXYGEN DEMAND	MG/L	70		
CHLORIDE	MG/L	170		
NITRATE	MG/L	0.050	U	
NITRITE	MG/L	0.050	U	
SULFATE	MG/L	370		
SULFIDE	MG/L	4.0	U	
TOTAL KJELDAHL NITROGEN	MG/L	1.1		
TOTAL ORGANIC CARBON	MG/L	82		

nsample	JAX-47-937-MW05S-01-041
samp_date	4/10/02
lab_id	WS0826-1
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.77		
BIOCHEMICAL OXYGEN DEMA	MG/L	6.0	UJ	D
CHEMICAL OXYGEN DEMAND	MG/L	50		
CHLORIDE	MG/L	53		
NITRATE	MG/L	0.050	U	
NITRITE	MG/L	0.050	U	
SULFATE	MG/L	240		
SULFIDE	MG/L	4.0	U	
TOTAL KJELDAHL NITROGEN	MG/L	1.4		
TOTAL ORGANIC CARBON	MG/L	79		

nsample	JAX-47-937-MW1S-01-0411
samp_date	4/11/02
lab_id	WS0842-3
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.10	U	
BIOCHEMICAL OXYGEN DEMA	MG/L	6.0	UJ	D
CHEMICAL OXYGEN DEMAND	MG/L	30		
CHLORIDE	MG/L	57		
NITRATE	MG/L	0.57		
NITRITE	MG/L	0.050	U	
SULFATE	MG/L	130		
SULFIDE	MG/L	8		
TOTAL KJELDAHL NITROGEN	MG/L	0.56		
TOTAL ORGANIC CARBON	MG/L	50		

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-937-MW3S-01-0411
samp_date	4/11/02
lab_id	WS0842-5
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.4		
BIOCHEMICAL OXYGEN DEMA	MG/L	6.0	UJ	D
CHEMICAL OXYGEN DEMAND	MG/L	99		
CHLORIDE	MG/L	23		
NITRATE	MG/L	0.06		
NITRITE	MG/L	0.050	U	
SULFATE	MG/L	19		
SULFIDE	MG/L	3		
TOTAL KJELDAHL NITROGEN	MG/L	1.1		
TOTAL ORGANIC CARBON	MG/L	79		

nsample	JAX-47-937-MW4S-01-0411
samp_date	4/11/02
lab_id	WS0842-6
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.1		
BIOCHEMICAL OXYGEN DEMA	MG/L	90	J	D
CHEMICAL OXYGEN DEMAND	MG/L	340		
CHLORIDE	MG/L	94		
NITRATE	MG/L	5.0		
NITRITE	MG/L	0.06		
SULFATE	MG/L	120		
SULFIDE	MG/L	10		
TOTAL KJELDAHL NITROGEN	MG/L	2.0		
TOTAL ORGANIC CARBON	MG/L	130		

nsample	JAX-47-937-MW6D-01-0411
samp_date	4/11/02
lab_id	WS0842-2
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.10	U	
BIOCHEMICAL OXYGEN DEMA	MG/L	6.0	UJ	D
CHEMICAL OXYGEN DEMAND	MG/L	15	U	
CHLORIDE	MG/L	28		
NITRATE	MG/L	0.050	U	
NITRITE	MG/L	0.050	U	
SULFATE	MG/L	33		
SULFIDE	MG/L	4.0	U	
TOTAL KJELDAHL NITROGEN	MG/L	0.10	U	
TOTAL ORGANIC CARBON	MG/L	19		

PROJ_NO: 3966

SDG: 162-4 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX-47-MW12S-01-041002
samp_date	4/10/02
lab_id	WS0826-3
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.1	U	
BIOCHEMICAL OXYGEN DEMA	MG/L	6.0	UJ	D
CHEMICAL OXYGEN DEMAND	MG/L	15	U	
CHLORIDE	MG/L	14		
NITRATE	MG/L	1.3		
NITRITE	MG/L	0.050	U	
SULFATE	MG/L	37		
SULFIDE	MG/L	10		
TOTAL KJELDAHL NITROGEN	MG/L	0.10	U	
TOTAL ORGANIC CARBON	MG/L	34		

nsample	JAX-47-MW14D-01-041002
samp_date	4/10/02
lab_id	WS0826-4
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.10	U	
BIOCHEMICAL OXYGEN DEMA	MG/L	6.0	UJ	D
CHEMICAL OXYGEN DEMAND	MG/L	15	U	
CHLORIDE	MG/L	6		
NITRATE	MG/L	0.050	U	
NITRITE	MG/L	0.050	U	
SULFATE	MG/L	85		
SULFIDE	MG/L	4.0	U	
TOTAL KJELDAHL NITROGEN	MG/L	0.1		
TOTAL ORGANIC CARBON	MG/L	21		

nsample	JAX47-MW19S-01-041202
samp_date	4/12/02
lab_id	WS0856-1
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.10	U	
BIOCHEMICAL OXYGEN DEMA	MG/L	6.0	UJ	DE
CHEMICAL OXYGEN DEMAND	MG/L	20		
CHLORIDE	MG/L	5		
NITRATE	MG/L	0.050	U	
NITRITE	MG/L	0.050	U	
SULFATE	MG/L	20		
SULFIDE	MG/L	1		
TOTAL KJELDAHL NITROGEN	MG/L	0.3		
TOTAL ORGANIC CARBON	MG/L	13		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: G. ROOF **DATE:** DECEMBER 24, 2002

FROM: SETH C. STAFFEN **COPIES:** DV FILE

SUBJECT: **ORGANIC DATA VALIDATION – VOA/PEST/PCB**
CTO 162, NAS JACKSONVILLE
SDG: WS4261

SAMPLES: 4/AQUEOUS/VOA/PEST/PCB

JAX47-MW21-01 JAX47-MW22-01
JAX47-MW23-01 JAX47-MW25-01

OVERVIEW

The sample set for CTO 162, NAS Jacksonville; SDG: WS4261 consists of four (4) aqueous environmental samples. The samples were analyzed for TCL volatile organic compounds, pesticides, and polychlorinated biphenyls (PCBs). No field duplicate pairs were included in this SDG.

The samples were collected by TetraTech NUS on November 6-7, 2002 and analyzed by Katahdin Analytical Services. The analysis was conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8081, and 8082 analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS tuning and system performance
• Initial/continuing calibrations
• Laboratory method and field quality control blank results
* • Surrogate spike recoveries
* • Matrix Spike/Matrix Spike Duplicate Results
* • Laboratory Control Sample Results
* • Internal Standard Performance
* • Compound Identification
* • Compound Quantitation
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

CTO 162

VOLATILE

The initial calibration on 11/08/02 contained relative response factors (RRFs) that fell below the 0.05 quality control limit for 2-butanone and acetone. The positive and nondetected results were rejected, R, and, UR, respectively, in all samples.

The continuing calibration on 11/12/02 at 0637 contained relative response factors (RRFs) that fell below the 0.05 quality control limit for 2-butanone and acetone. The positive and nondetected results were rejected, R, and, UR, respectively, in all samples.

The continuing calibration on 11/12/02 at 0637 contained percent differences (%Ds) that exceeded the 25% quality control limit for 2-butanone, acetone, and 2-hexanone. The positive and nondetected results for 2-butanone and acetone were already rejected for a more severe RRF noncompliance in all samples. The nondetected results for 2-hexanone were qualified as estimated, UJ, in all samples.

The following compounds were detected in the laboratory method blank as indicated below:

Compound	Maximum Concentration	Action Level
Methylene chloride	0.5 µg/L	2.5 µg/L
1,2,4-Trichlorobenzene	0.6 µg/L	3.0 µg/L

Blank Actions:

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < action level; report value followed by a U.
- Value > RL and > action level; report value unqualified.

An action level of 10X (common laboratory contaminants) and 5X (other contaminants) the blank concentration was used to evaluate laboratory contamination. Dilution factors and sample aliquots were taken into consideration prior to the application of all action levels. No qualification action was taken for methylene chloride because methylene chloride was not detected in any samples. The 1,2,4-trichlorobenzene result for sample JAX47-MW25-01 was qualified due to blank contamination.

PESTICIDES

The continuing calibration on 11/16/02 at 0358 contained %Ds that exceeded the 15% quality control limit on both columns for g-BHC, d-BHC, 4,4'-DDE, 4,4'-DDT, 4,4'-DDD, and Endosulfan sulfate. The nondetected results were qualified as estimated, UJ, in associated samples.

The closing calibration verification standard from 111/19/02 contained responses that were half of the expected values. The laboratory suspected the new chromatography data system as the cause of the problem. The laboratory re-analyzed sample JAX47-MW25-01 and submitted an addendum containing the appropriate documentation.

Sample JAX47-MW25-01 was analyzed at a 10X dilution. Thus causing elevated reporting limits.

Additional Comments

Sample JAX47-MW24-01 was listed on the Chain of Custody. However, the volatile, pesticide, and PCB analyses for the aforementioned sample were canceled.

Several volatile compounds did not meet the required detection limit (RDL) as stated in the laboratory specification.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Methylene chloride and 1,2,4-trichlorobenzene were detected in the laboratory method blank. Initial and continuing calibration criteria were not met.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999), and the NFESC guidelines IRCDQM (September, 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Seth C. Staffen

Environmental Scientist/Data Validator
Tetra Tech NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
TetraTech NUS

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 3966

SDG: WS4261 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW21-01
samp_date	11/6/2002
lab_id	WS4261-1
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	UR	C
2-HEXANONE	5	UJ	C
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UR	C
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-MW21-01
samp_date	11/6/2002
lab_id	WS4261-1
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-MW22-01
samp_date	11/6/2002
lab_id	WS4261-2
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	UR	C
2-HEXANONE	5	UJ	C
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UR	C
BENZENE	0.2	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	0.2	J	P
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	0.7	J	P

PROJ_NO: 3966

SDG: WS4261 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW22-01
samp_date	11/6/2002
lab_id	WS4261-2
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	JAX47-MW23-01
samp_date	11/7/2002
lab_id	WS4261-3
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	UR	C
2-HEXANONE	5	UJ	C
4-METHYL-2-PENTANONE	5	U	
ACETONE	27	R	C
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

nsample	JAX47-MW23-01
samp_date	11/7/2002
lab_id	WS4261-3
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: WS4261 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW25-01
samp_date	11/7/2002
lab_id	WS4261-5
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	0.4	J	P
1,2,4-TRICHLOROBENZENE	1	U	A
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	1	J	P
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	0.3	J	P
1,4-DICHLOROBENZENE	4	J	P
2-BUTANONE	5	UR	C
2-HEXANONE	5	UJ	C
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UR	C
BENZENE	2	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	8		
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	1	J	P
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	0.5	J	P

nsample	JAX47-MW25-01
samp_date	11/7/2002
lab_id	WS4261-5
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	40		
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	0.8	J	P
ISOPROPYLBENZENE	7		
M+P-XYLENES	6		
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	22		
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	10		
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	0.3	J	P
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	16		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	4	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 3966

SDG: WS4261 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW21-01	nsample	JAX47-MW22-01	nsample	JAX47-MW23-01
samp_date	11/6/2002	samp_date	11/6/2002	samp_date	11/7/2002
lab_id	WS4261-1	lab_id	WS4261-2	lab_id	WS4261-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0.0	Pct_Solids	0.0	Pct_Solids	0.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	UJ	C
4,4'-DDE	0.10	UJ	C
4,4'-DDT	0.10	UJ	C
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	UJ	C
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	UJ	C
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	UJ	C
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	UJ	C
4,4'-DDE	0.10	UJ	C
4,4'-DDT	0.10	UJ	C
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	UJ	C
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	UJ	C
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	UJ	C
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	UJ	C
4,4'-DDE	0.10	UJ	C
4,4'-DDT	0.10	UJ	C
ALDRIN	0.053	U	
ALPHA-BHC	0.053	U	
ALPHA-CHLORDANE	0.053	U	
BETA-BHC	0.053	U	
DELTA-BHC	0.053	UJ	C
DIELDRIN	0.10	U	
ENDOSULFAN I	0.053	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	UJ	C
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.053	UJ	C
GAMMA-CHLORDANE	0.053	U	
HEPTACHLOR	0.053	U	
HEPTACHLOR EPOXIDE	0.053	U	
METHOXYCHLOR	0.53	U	
TOXAPHENE	1.0	U	

PROJ_NO: 3966

SDG: WS4261 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW25-01
samp_date	11/7/2001
lab_id	WS4261-5
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.0	U	
4,4'-DDE	1.0	U	
4,4'-DDT	1.0	U	
ALDRIN	0.5	U	
ALPHA-BHC	5.9		
ALPHA-CHLORDANE	.5	U	
BETA-BHC	2.8		
DELTA-BHC	5.6		
DIELDRIN	1.0	U	
ENDOSULFAN I	0.5	U	
ENDOSULFAN II	1.0	U	
ENDOSULFAN SULFATE	1.0	U	
ENDRIN	1.0	U	
ENDRIN ALDEHYDE	1.0	U	
ENDRIN KETONE	1.0	U	
GAMMA-BHC (LINDANE)	10		
GAMMA-CHLORDANE	.5	U	
HEPTACHLOR	.5	U	
HEPTACHLOR EPOXIDE	.5	U	
METHOXYCHLOR	.5	U	
TOXAPHENE	10	U	

DN:3966:4.4:05

PROJ_NO: 3966

SDG: WS4325 MEDIA: WATER DATA FRACTION:

nsample	JAX47-MW24-02
samp_date	11/12/2002
lab_id	WS4325-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	J	P
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	19		

nsample	JAX47-MW24-02
samp_date	11/12/2002
lab_id	WS4325-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	0.4	J	P
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	19		
TOTAL XYLENES	0.4	J	P
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	2	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

RECEIVED
DEC 18 2002
TETRA TECH NUS
JACKSONVILLE FL

PROJ_NO: 3966

SDG: WS4325 MEDIA: WATER DATA FRACTION:

nsample	JAX47-MW24-02
samp_date	11/12/2002
lab_id	WS4325-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/12/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4325-1
Client ID: JAX47-MW24-02
SDG: WS4325
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene		19	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)		19	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	J	1.0	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	J	2	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	J	0.4	1.0	5	5	0.3
	m+p-Xylenes	J	0.4	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/12/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4325-1
Client ID: JAX47-MW24-02
SDG: WS4325
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		111%				
2037-26-5	Toluene-D8		106%				
460-00-4	P-Bromofluorobenzene		108%				

Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date:
Received Date:
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WG1233-1
Client ID: WG1233-Blank
SDG: WS4325
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	J	0.5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.3
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date:
Received Date:
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WG1233-1
Client ID: WG1233-Blank
SDG: WS4325
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	J	0.8	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/12/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/20/02
Report Date: 11/21/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4325-1
Client ID: JAX47-MW24-02
SDG: WS4325
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1115
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
877-09-8	Tetrachloro-m-Xylene		70%				
2051-24-3	Decachlorobiphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/15/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/20/02
Report Date: 11/21/2002
Matrix: WATER
% Solids: NA

Lab ID: WG1115-1
Client ID: WG1115-Blank
SDG: WS4325
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1115
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
877-09-8	Tetrachloro-m-Xylene		82%				
2051-24-3	Decachlorobiphenyl		88%				

Katahdin Analytical Services 3000070

WS4325

HOLDING TIME
12/11/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX47-MW24-02	WS4325-1	NORMAL	WS4325	OV	11/12/02	11/18/02	11/18/02	6	0	6
UG/L	WG1233-BLANK	WG1233-1	P BLANK	WS4325	OV	11/18/02	11/18/02	11/18/02	0	0	0
UG/L	WG1233-LCS	WG1233-2	LCS	WS4325	OV	11/18/02	11/18/02	11/18/02	0	0	0
UG/L	JAX47-MW24-02	WS4325-1	NORMAL	WS4325	PEST	11/12/02	11/18/02	11/20/02	6	2	8
UG/L	WG1115-BLANK	WG1115-1	P BLANK	WS4325	PEST	11/15/02	11/18/02	11/20/02	3	2	5
UG/L	WG1115-LCS	WG1115-2	LCS	WS4325	PEST	11/15/02	11/18/02	11/20/02	3	2	5
UG/L	WG1115-LCSD	WG1115-3	LCSD	WS4325	PEST	11/15/02	11/18/02	11/20/02	3	2	5

PROJ_NO: 3966

SDG: WT0219 MEDIA: SOIL DATA FRACTION: P

nsample	JAX47-SB59-S02
samp_date	1/28/2003
lab_id	WT0219-1
qc_type	NM
units	UG/KG
Pct_Solids	85.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	12		
4,4'-DDE	23		
4,4'-DDT	94		
ALDRIN	2.0	U	
ALPHA-BHC	2.0	U	
ALPHA-CHLORDANE	2.0	U	
BETA-BHC	2.0	U	
DELTA-BHC	2.0	U	
DIELDRIN	3.9	U	
ENDOSULFAN I	2.0	U	
ENDOSULFAN II	3.9	U	
ENDOSULFAN SULFATE	3.9	U	
ENDRIN	3.9	U	
ENDRIN ALDEHYDE	3.9	U	
ENDRIN KETONE	3.9	U	
GAMMA-BHC (LINDANE)	2.0	U	
GAMMA-CHLORDANE	2.0	U	
HEPTACHLOR	2.0	U	
HEPTACHLOR EPOXIDE	2.0	U	
METHOXYCHLOR	20	U	
TOXAPHENE	39	U	

nsample	JAX47-SB61-S02
samp_date	1/28/2003
lab_id	WT0219-2
qc_type	NM
units	UG/KG
Pct_Solids	76.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	4.3	U	
4,4'-DDE	2.1	J	P
4,4'-DDT	4.7		
ALDRIN	2.2	U	
ALPHA-BHC	2.2	U	
ALPHA-CHLORDANE	2.2	U	
BETA-BHC	2.2	U	
DELTA-BHC	2.2	U	
DIELDRIN	4.3	U	
ENDOSULFAN I	2.2	U	
ENDOSULFAN II	4.3	U	
ENDOSULFAN SULFATE	4.3	U	
ENDRIN	4.3	U	
ENDRIN ALDEHYDE	4.3	U	
ENDRIN KETONE	4.3	U	
GAMMA-BHC (LINDANE)	2.2	U	
GAMMA-CHLORDANE	2.2	U	
HEPTACHLOR	2.2	U	
HEPTACHLOR EPOXIDE	2.2	U	
METHOXYCHLOR	22	U	
TOXAPHENE	43	U	

nsample	JAX47-SB63-S02
samp_date	1/30/2003
lab_id	WT0219-3
qc_type	NM
units	UG/KG
Pct_Solids	91.3
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.6	U	
4,4'-DDE	3.6	U	
4,4'-DDT	3.6	U	
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	1.9	U	
BETA-BHC	1.9	U	
DELTA-BHC	1.9	U	
DIELDRIN	3.6	U	
ENDOSULFAN I	1.9	U	
ENDOSULFAN II	3.6	U	
ENDOSULFAN SULFATE	3.6	U	
ENDRIN	3.6	U	
ENDRIN ALDEHYDE	3.6	U	
ENDRIN KETONE	3.6	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	1.9	U	
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	1.9	U	
METHOXYCHLOR	19	U	
TOXAPHENE	36	U	

SOIL

1.28.03
1.30.03

SB 59
SB 61
SB 63

PROJ_NO: 3966

SDG: WT0219 MEDIA: SOIL DATA FRACTION: MI

nsample	JAX47-SB59-S02
samp_date	1/28/2003
lab_id	WT0219-1
qc_type	NM
Pct_Solids	85
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	85		

nsample	JAX47-SB61-S02
samp_date	1/28/2003
lab_id	WT0219-2
qc_type	NM
Pct_Solids	77
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	77		

nsample	JAX47-SB63-S02
samp_date	1/30/2003
lab_id	WT0219-3
qc_type	NM
Pct_Solids	91
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	91		

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO 162
PO No:
Sample Date: 01/28/03
Received Date: 01/31/03
Extraction Date: 02/07/03
Analysis Date: 02/12/03
Report Date: 02/17/2003
Matrix: SOIL
% Solids: 85.1

Lab ID: WT0219-1
Client ID: JAX47-SB59-S02
SDG: WT0219
Extracted by: AB
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1586
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.0	1.0	1.7	2.0	0.80
58-89-9	gamma BHC	U	2.0	1.0	1.7	2.0	0.69
76-44-8	Heptachlor	U	2.0	1.0	1.7	2.0	0.65
319-85-7	beta-BHC	U	2.0	1.0	1.7	2.0	1.2
309-00-2	Aldrin	U	2.0	1.0	1.7	2.0	0.66
319-86-8	delta-BHC	U	2.0	1.0	1.7	2.0	0.68
1024-57-3	Heptachlor Epoxide	U	2.0	1.0	1.7	2.0	0.76
959-98-8	Endosulfan I	U	2.0	1.0	1.7	2.0	0.72
72-55-9	4,4'-DDE		23	1.0	3.3	3.9	0.73
60-57-1	Dieldrin	U	3.9	1.0	3.3	3.9	0.70
72-20-8	Endrin	U	3.9	1.0	3.3	3.9	0.67
72-54-8	4,4'-DDD		12	1.0	3.3	3.9	0.73
33213-65-9	Endosulfan II	U	3.9	1.0	3.3	3.9	0.67
50-29-3	4,4'-DDT		94	1.0	3.3	3.9	0.65
7421-36-3	Endrin Aldehyde	U	3.9	1.0	3.3	3.9	0.79
1031-07-8	Endosulfan sulfate	U	3.9	1.0	3.3	3.9	0.81
72-43-5	Methoxychlor	U	20	1.0	17	20	1.2
8001-35-2	Toxaphene	U	39	1.0	33	39	14
5103-71-9	alpha-Chlordane	U	2.0	1.0	1.7	2.0	0.81
5103-74-2	gamma-Chlordane	U	2.0	1.0	1.7	2.0	0.74
53494-70-5	Endrin Ketone	U	3.9	1.0	3.3	3.9	0.86
877-09-8	Tetrachloro-m-Xylene		85%				
2051-24-3	Decachlorobiphenyl		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO 162
PO No:
Sample Date: 01/28/03
Received Date: 01/31/03
Extraction Date: 02/07/03
Analysis Date: 02/12/03
Report Date: 02/17/2003
Matrix: SOIL
% Solids: 76.7

Lab ID: WT0219-2
Client ID: JAX47-SB61-S02
SDG: WT0219
Extracted by: AB
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1586
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.2	1.0	1.7	2.2	0.89
58-89-9	gamma BHC	U	2.2	1.0	1.7	2.2	0.77
76-44-8	Heptachlor	U	2.2	1.0	1.7	2.2	0.72
319-85-7	beta-BHC	U	2.2	1.0	1.7	2.2	1.3
309-00-2	Aldrin	U	2.2	1.0	1.7	2.2	0.73
319-86-8	delta-BHC	U	2.2	1.0	1.7	2.2	0.76
1024-57-3	Heptachlor Epoxide	U	2.2	1.0	1.7	2.2	0.85
959-98-8	Endosulfan I	U	2.2	1.0	1.7	2.2	0.80
72-55-9	4,4'-DDE	J	2.1	1.0	3.3	4.3	0.81
60-57-1	Dieldrin	U	4.3	1.0	3.3	4.3	0.78
72-20-8	Endrin	U	4.3	1.0	3.3	4.3	0.74
72-54-8	4,4'-DDD	U	4.3	1.0	3.3	4.3	0.81
33213-65-9	Endosulfan II	U	4.3	1.0	3.3	4.3	0.74
50-29-3	4,4'-DDT		4.7	1.0	3.3	4.3	0.72
7421-36-3	Endrin Aldehyde	U	4.3	1.0	3.3	4.3	0.87
1031-07-8	Endosulfan sulfate	U	4.3	1.0	3.3	4.3	0.90
72-43-5	Methoxychlor	U	22	1.0	17	22	1.3
8001-35-2	Toxaphene	U	43	1.0	33	43	15
5103-71-9	alpha-Chlordane	U	2.2	1.0	1.7	2.2	0.90
5103-74-2	gamma-Chlordane	U	2.2	1.0	1.7	2.2	0.82
53494-70-5	Endrin Ketone	U	4.3	1.0	3.3	4.3	0.95
877-09-8	Tetrachloro-m-Xylene		97%				
2051-24-3	Decachlorobiphenyl		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO 162
PO No:
Sample Date: 01/30/03
Received Date: 01/31/03
Extraction Date: 02/07/03
Analysis Date: 02/12/03
Report Date: 02/17/2003
Matrix: SOIL
% Solids: 91.3

Lab ID: WT0219-3
Client ID: JAX47-SB63-S02
SDG: WT0219
Extracted by: AB
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1586
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.74
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.65
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.60
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	1.1
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	0.61
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	0.64
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.71
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.67
72-55-9	4,4'-DDE	U	3.6	1.0	3.3	3.6	0.68
60-57-1	Dieldrin	U	3.6	1.0	3.3	3.6	0.66
72-20-8	Endrin	U	3.6	1.0	3.3	3.6	0.62
72-54-8	4,4'-DDD	U	3.6	1.0	3.3	3.6	0.68
33213-65-9	Endosulfan II	U	3.6	1.0	3.3	3.6	0.62
50-29-3	4,4'-DDT	U	3.6	1.0	3.3	3.6	0.60
7421-36-3	Endrin Aldehyde	U	3.6	1.0	3.3	3.6	0.73
1031-07-8	Endosulfan sulfate	U	3.6	1.0	3.3	3.6	0.76
72-43-5	Methoxychlor	U	19	1.0	17	19	1.1
8001-35-2	Toxaphene	U	36	1.0	33	36	13
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	0.76
5103-74-2	gamma-Chlordane	U	1.9	1.0	1.7	1.9	0.69
53494-70-5	Endrin Ketone	U	3.6	1.0	3.3	3.6	0.80
877-09-8	Tetrachloro-m-Xylene		86%				
2051-24-3	Decachlorobiphenyl		98%				

PROJ_NO: 3966

SDG: WT0130 MEDIA: SOIL DATA FRACTION: P

nsample	JAX47-SB58A-S02
samp_date	1/20/2003
lab_id	WT0130-1
qc_type	NM
units	UG/KG
Pct_Solids	71.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	4.6	U	
4,4'-DDE	4.6	U	
4,4'-DDT	4.6	U	
ALDRIN	2.4	U	
ALPHA-BHC	2.4	U	
ALPHA-CHLORDANE	2.4	U	
BETA-BHC	2.4	U	
DELTA-BHC	2.4	U	
DIELDRIN	4.6	U	
ENDOSULFAN I	2.4	U	
ENDOSULFAN II	4.6	U	
ENDOSULFAN SULFATE	4.6	U	
ENDRIN	4.6	U	
ENDRIN ALDEHYDE	4.6	U	
ENDRIN KETONE	4.6	U	
GAMMA-BHC (LINDANE)	2.4	U	
GAMMA-CHLORDANE	2.4	U	
HEPTACHLOR	2.4	U	
HEPTACHLOR EPOXIDE	2.4	U	
METHOXYCHLOR	24	U	
TOXAPHENE	46	U	

SOIL
1.20.03
SB58A

PROJ_NO: 3966

SDG: WT0130 MEDIA: SOIL DATA FRACTION: MI

nsample	JAX47-SB58-S02
samp_date	1/20/2003
lab_id	WT0130-1
qc_type	NM
Pct_Solids	72
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	72		

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: N3966-WR305(SS) NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05
Sample Date: 01/20/03
Received Date: 01/22/03
Extraction Date: 01/22/03
Analysis Date: 01/23/03
Report Date: 01/27/2003
Matrix: SOIL
% Solids: 71.9

Lab ID: WT0130-1
Client ID: JAX47-SB58-S02
SDG: WT0130
Extracted by: RH
Extraction Method: SW846 3550
Analyst: GDL
Analysis Method: SW846 8081A
Lab Prep Batch: WG1509
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.4	1.0	1.7	2.4	0.94
58-89-9	gamma BHC	U	2.4	1.0	1.7	2.4	0.82
76-44-8	Heptachlor	U	2.4	1.0	1.7	2.4	0.76
319-85-7	beta-BHC	U	2.4	1.0	1.7	2.4	1.4
309-00-2	Aldrin	U	2.4	1.0	1.7	2.4	0.78
319-86-8	delta-BHC	U	2.4	1.0	1.7	2.4	0.81
1024-57-3	Heptachlor Epoxide	U	2.4	1.0	1.7	2.4	0.90
959-98-8	Endosulfan I	U	2.4	1.0	1.7	2.4	0.85
72-55-9	4,4'-DDE	U	4.6	1.0	3.3	4.6	0.86
60-57-1	Dieldrin	U	4.6	1.0	3.3	4.6	0.83
72-20-8	Endrin	U	4.6	1.0	3.3	4.6	0.79
72-54-8	4,4'-DDD	U	4.6	1.0	3.3	4.6	0.86
33213-65-9	Endosulfan II	U	4.6	1.0	3.3	4.6	0.79
50-29-3	4,4'-DDT	U	4.6	1.0	3.3	4.6	0.76
7421-36-3	Endrin Aldehyde	U	4.6	1.0	3.3	4.6	0.93
1031-07-8	Endosulfan sulfate	U	4.6	1.0	3.3	4.6	0.96
72-43-5	Methoxychlor	U	24	1.0	17	24	1.4
8001-35-2	Toxaphene	U	46	1.0	33	46	16
5103-71-9	alpha-Chlordane	U	2.4	1.0	1.7	2.4	0.96
5103-74-2	gamma-Chlordane	U	2.4	1.0	1.7	2.4	0.88
53494-70-5	Endrin Ketone	U	4.6	1.0	3.3	4.6	1.0
877-09-8	Tetrachloro-m-Xylene		66%				
2051-24-3	Decachlorobiphenyl		77%				

PROJ_NO: 3966

SDG: WT0430 MEDIA: WATER DATA FRACTION:

GW
3.3.03

MW-27

nsample	JAX47-GW-MW27-02	nsample	JAX47-GW-MW27-02-F
samp_date	3/3/2003	samp_date	3/3/2003
lab_id	WT0430-1	lab_id	WT0430-2
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids	0	Pct_Solids	0
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.10	U	
4,4'-DDE	0.10	U	
4,4'-DDT	0.10	U	
ALDRIN	0.050	U	
ALPHA-BHC	0.050	U	
ALPHA-CHLORDANE	0.050	U	
BETA-BHC	0.050	U	
DELTA-BHC	0.050	U	
DIELDRIN	0.10	U	
ENDOSULFAN I	0.050	U	
ENDOSULFAN II	0.10	U	
ENDOSULFAN SULFATE	0.10	U	
ENDRIN	0.10	U	
ENDRIN ALDEHYDE	0.10	U	
ENDRIN KETONE	0.10	U	
GAMMA-BHC (LINDANE)	0.050	U	
GAMMA-CHLORDANE	0.050	U	
HEPTACHLOR	0.050	U	
HEPTACHLOR EPOXIDE	0.050	U	
METHOXYCHLOR	0.50	U	
TOXAPHENE	1.0	U	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO 162
PO No:
Sample Date: 03/03/03
Received Date: 03/04/03
Extraction Date: 03/07/03
Analysis Date: 03/13/03
Report Date: 03/17/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0430-1
Client ID: JAX47-GW-MW27-02
SDG: WT0430
Extracted by: NB
Extraction Method: SW846 3535
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
877-09-8	Tetrachloro-m-Xylene		* 95%				
2051-24-3	Decachlorobiphenyl		108%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO 162
PO No:
Sample Date: 03/03/03
Received Date: 03/04/03
Extraction Date: 03/07/03
Analysis Date: 03/13/03
Report Date: 03/17/2003
Matrix: WATER
% Solids: NA

Lab ID: WT0430-2
Client ID: JAX47-GW-MW27-02-F
SDG: WT0430
Extracted by: NB
Extraction Method: SW846 3535
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.025
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.022
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.024
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.042
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.022
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.029
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.023
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.018
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.028
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.017
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.018
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.028
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.016
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.030
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.021
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.023
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.045
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.92
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.019
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.019
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.020
877-09-8	Tetrachloro-m-Xylene		* 95%				
2051-24-3	Decachlorobiphenyl		106%				

PACKAGE TRACKING

FILE NAME: [redacted]

CTO: 162 JOB NO: 3966

SDG: WS4555 VALIDATION REQUIRED: C

DATE EDD REC'D: 12/23/02 PROJECT MANAGER: ROOF, G.

DATE DATA REC'D: 12/30/02 REGION: 4

SDIV: X NDIV: USCG: ARMY:

IND: AFB: OTHER:

PROJECT NAME: NAS JACKSONVILLE

FRACTIONS RECEIVED:

OV X ✓

OVG

OS

PAH

PEST/PCB X ✓

HERB

PET

EXP

DIOX

OPEST

M

MF

MISC X ✓

RAD

AVS/SEM

NOTES:

LOADED

TETRA TECH NUS, INC.
NAS JACKSONVILLE CTO 162
WS4555

FLORIDA CERTIFICATION # E87604

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

TABLE OF CONTENTS

Total number of pages: 318

SAMPLE DATA PACKAGE		0000001		
Narrative	----------	0000002	to	0000004
Supporting Documents	----------	0000005	to	0000005
Chain of Custody Record	----------	0000006	to	0000006
Confirmation	----------	0000007	to	0000008
SAMPLE DATA SUMMARY				
Report of Analytical Results	----------	A0000001	to	A0000056
VOLATILE ANALYSIS		1000001		
QC Summary	----------	1000002	to	1000007
Sample Data	----------	1000008	to	1000017
Standards Data	----------	1000018	to	1000060
Raw QC Data	----------	1000061	to	1000081
Logbooks and Supporting Documents	----------	1000082	to	1000083
PESTICIDE ANALYSIS		3000001		
QC Summary	----------	3000002	to	3000008
Sample Data	----------	3000009	to	3000051
Standards Data	----------	3000052	to	3000132
Raw QC Data	----------	3000133	to	3000151
Logbooks and Supporting Documents	----------	3000152	to	3000156
CONVENTIONAL AND PHYSICAL ANALYTICAL DATA		5000001		
QC Summary	----------	5000002	to	5000004
Sample Data	----------	5000005	to	5000012
Raw Data	----------	5000013	to	5000015

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE CTO 162 NAS JACKSONVILLE
WS4555
TASK ORDER MANAGER: GREG ROOF

Sample Receipt

The following samples were received on December 12, 2002 and were logged in under Katahdin Analytical Services work order number WS4555 for a hardcopy due date of January 3, 2003.

KATAHDIN Sample No.	TTNUS Sample Identification
WS4555-1	JAX-47-SB57-S01
WS4555-2	JAX-47-SB58-S01
WS4555-3	JAX-47-SB56-S02
WS4555-4	JAX-47-SB16-S02
WS4555-5	JAX-47-SB56-S01
WS4555-6	JAX-47-SB55-S01
WS4555-7	JAX-47-IDW-SS1

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Volatile Organics Analysis

One soil/sediment sample was received by the Katahdin GC/MS laboratory on December 12, 2002, and was specified to be analyzed and quantitated for a client-specified list of analytes in accordance with SW-846 method 8260B.

Analyses for this SDG were performed on the 5970-Q instrument using low-level (heated purge) techniques.

Batch QC (VBLK and LCS) was performed in the twelve-hour window. The LCS QC sample was spiked with the entire list of compounds quantitated for at 50 ppb.

The sample was received in EnCore sampling devices and was extruded into water (two aliquots) and methanol (one aliquot) on the day of receipt at the laboratory.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) for these samples are statistically derived limits. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes are outside of QC limits.

In the calibration curve analyzed for this SDG, linear or quadratic models were used for those analytes having %RSD values exceeding 15%.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the data package.

The volatile organic staff noted no other protocol deviations.

GC Laboratory

Samples WS4555-1 through -7 were received on December 12, 2002 and were analyzed for pesticides according to SW846 method 8081A. The samples were extracted and analyzed within hold time, and all QC criteria were met with the following comments:

Pesticide Analysis

Samples WS4555-5 and -6 had high recoveries for the surrogate TCX on both channels, which were outside the laboratory established acceptance limits. Since the recoveries for DCB were acceptable, the samples were not reanalyzed.

Sample WS4555-2 was diluted in order to bring high concentration target analytes into the calibration range. Consequently, the surrogates were diluted out of range.

The laboratory control sample (LCS) WG1299-2 and the laboratory control sample duplicate (LCSD) WG1299-3 had slightly high recoveries for beta-BHC, Heptachlor epoxide, Endosulfan I, Endosulfan II, and gamma-Chlordane, which were outside the laboratory established acceptance limits. The LCSD also had high recoveries for eight additional compounds, which were outside the laboratory established acceptance limits.

The closing calibration verification standard (CV) (file 8SL1122) had a high response for TCX on channel A, which resulted in a %D that was outside the method acceptance limit of 15%. The associated sample may be biased high for TCX on channel A.

There were no other protocol deviations or observations noted by the GC laboratory staff.

Wet Chemistry Analysis

Samples were received on December 12, 2002 and logged in as work order WS4555. Analyses for Total Solids were performed according to U.S. EPA Contract Laboratory Program Statement of Work for Inorganic Analysis.

All analyses were performed within analytical hold time. All quality control criteria were met.

No deviations were noted by the Wet Chemistry group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager, Quality Assurance Officer, or the Data Management Supervisor as verified by the following signature.

Maria Crouch
12.23.02
Maria Crouch
Data Management Supervisor

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WS4555

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: Tetra Tech

PROJECT: _____

COC# _____
SDG# _____
DATE / TIME RECEIVED: 12/12/02 09:05
DELIVERED BY: FedEx
RECEIVED BY: AMB
LIMS ENTRY BY: AMB
LIMS REVIEW BY / PM: DC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.5	
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE / ICE PACKS PRESENT (Y) or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☐ N/A		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN): _____

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

WB4755

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 0254 | **PAGE** 1 **OF** 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N396Ce	Pest. Shop	Greg Koof	904-636-6125	Katahdin Andrea Colby
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
RLM		Lane Meddie	636-6125	
MCJ		**CARRIER/WAYBILL NUMBER**		**CITY, STATE**
		FedEx		

STANDARD TAT ☐
RUSH TAT ☒
☒ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2002	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									COMMENTS
									PRESERVATIVE USED									
									TYPE OF ANALYSIS									
12/11	1305	JAX-47-SB57-S01	SB57	0	1	So	6	1	1									COOL TO 4°C
12/11	1302	JAX-47-SB58-S01	SB58	0	1	So	G	1	1									
12/11	1246	JAX-47-SB56-S02	SB56	1	2	So	G	1	1									Kelly Carpet
12/11	1240	JAX-47-SB16-S02	SB16	1	2	So	G	1	1									Will Contact
12/11	1245	JAX-47-SB56-S01	SB56	0	1	So	G	1	1									You w/ Work
12/11	1243	JAX-47-SB55-S01	SB55	0	1	So	G	1	1									Release
12/11	1340	JAX-47-IDW-S01	IDW	—	—	So	C*	1	1	3								
																		* Unmixed Composite

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY RLM	12/11/02	1600	1. RECEIVED BY	12/12/02	0855
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | WS4555 CHAIN OF CUSTODY | NUMBER 0254 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N3966	PEST. SHOP	GREG ROOF	904-636-6125	KATAHDIN ANDREA COLBY
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
KLM		LANE MEDDLE	636-6125	
MCJ		CARRIER/WAYBILL NUMBER		CITY, STATE
		FEDEX		

STANDARD TAT ☐
RUSH TAT ☒
☒ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2002	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PESTICIDES	VOC (ENCORES)	COMMENTS
									G	None			
12/11	1305	JAX-47-SB57-501	SB57	0	1	So	G	1	1				COOL TO 4°C
12/11	1302	JAX-47-SB58-501	SB58	0	1	So	G	1	1				
12/11	1246	JAX-47-SB56-502	SB56	1	2	So	G	1	1				KELLY CARPER
12/11	1240	JAX-47-SB16-502	SB16	1	2	So	G	1	1				WILL CONTACT
12/11	1245	JAX-47-SB56-501	SB56	0	1	So	G	1	1				YOU W/ WORK
12/11	1243	JAX-47-SB55-501	SB55	0	1	So	G	1	1				RELEASE
12/11	1340	JAX-47-IDW-551	IDW	—	—	So	C*	1	1		3		
													* UNMIXED
													COMPOSITE

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	12/11/02	1600	1. RECEIVED BY	12/12/02	0825
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

000009

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 18, 2002
04:36 PM

Login Number: WS4555

Account: TETRAT001
Tetra Tech NUS, Inc.

Project:

Primary Report Address:
Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Primary Invoice Address:
Accounts Payable
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	
CLIENT PO#	:	MSA-0402-N4113-05 N4207-WR106(SD)
COOLER TEMPERATURE	:	1.5
DELIVERY SERVICES	:	FEDEX
EDD FORMAT	:	KAS050QC-DB3
MAIL DATE	:	
PM	:	AJC
PROJECT NAME	:	NAS JACKSONVILLE CTO162
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Send copy of rpt on CD. Email EDD to Amy Thomson. Include FL cert # in rpt. TTNUS TOM is Greg Roof. Data summary needs all forms.
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4555-1	JAX-47-SB57-S01	11-DEC-02 13:05	12-DEC-02		03-JAN-03	Faxed results due 12/13/02. Rpt to MDL & J to PQL.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Solid	S	SW8081	25-DEC-02	100g Glass	1
Solid	S	TS	10-JAN-03		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4555-2	JAX-47-SB58-S01	11-DEC-02 13:02	12-DEC-02		03-JAN-03	Faxed results due 12/13/02. Rpt to MDL & J to PQL.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Solid	S	SW8081	25-DEC-02	100g Glass	1
Solid	S	TS	10-JAN-03		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4555-3	JAX-47-SB56-S02	11-DEC-02 12:46	12-DEC-02		03-JAN-03	Faxed results due 12/13/02. Rpt to MDL & J to PQL.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Solid	S	SW8081	25-DEC-02	100g Glass	1
Solid	S	TS	10-JAN-03		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4555-4	JAX-47-SB16-S02	11-DEC-02 12:40	12-DEC-02		03-JAN-03	Faxed results due 12/13/02. Rpt to MDL & J to PQL.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Solid	S	SW8081	25-DEC-02	100g Glass	1
Solid	S	TS	10-JAN-03		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4555-5	JAX-47-SB56-S01	11-DEC-02 12:45	12-DEC-02		03-JAN-03	Faxed results due 12/13/02. Rpt to MDL & J to PQL.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Solid	S	SW8081	25-DEC-02	100g Glass	1
Solid	S	TS	10-JAN-03		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4555-6	JAX-47-SB55-S01	11-DEC-02 12:43	12-DEC-02		03-JAN-03	Faxed results due 12/13/02. Rpt to MDL & J to PQL.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Solid	S	SW8081	25-DEC-02	100g Glass	1
Solid	S	TS	10-JAN-03		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4555-7	JAX-47-IDW-SS1	11-DEC-02 13:40	12-DEC-02		03-JAN-03	Faxed results due 12/13/02. Rpt to MDL & J to PQL.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Solid	S	SW8081	25-DEC-02	100g Glass	1
Solid	S	SW8260OLM	25-DEC-02	Encore Samplers	4
Solid	S	TS	10-JAN-03		

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 18, 2002

04:36 PM

Login Number: WS4555

Account:TETRAT001

Tetra Tech NUS, Inc.

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments

Total Samples: *7* ***Total Analyses:*** *15*

DATA VALIDATION TRACKING FORM

Site Name :_NAS JACKSONVILLE__ **Region:**____4____

Project Manager:_ROOF,G._____ **CTO:**___162___

Charge No.:__3966_____ **Validation:**

Validator:_____ ☐ **Full**

QA:_____ ☐ **Limited**

■ **Cursory**

Sample Delivery Group:____WS4555_____

Fraction:		AQUEOUS	SOLID	AIR
■	**VOA**	_____	___1__	_____
☐	**OVG**	_____	_____	_____
☐	**SVOA**	_____	_____	_____
☐	**PAH**	_____	_____	_____
■	**PEST/PCB**	_____	___7__	_____
☐	**HERB**	_____	_____	_____
☐	**PET**	_____	_____	_____
☐	**EXP**	_____	_____	_____
☐	**DIOX**	_____	_____	_____
☐	**OPEST**	_____	_____	_____
☐	**OTHER**	_____	_____	_____

Date Assigned:__12/30/02_____
Due Date:_____01/06/02_____
Date Valid Complete:_____
Date QA Complete:_____

LOE Allotted: _____hrs
LOE Expended:
Validation _____hrs
Corrections _____hrs
QA _____hrs

Total LOE Expended _____hrs

PROJ_NO: 3966

SDG: WS4555 MEDIA: SOIL DATA FRACTION: O

nsample	JAX-47-IDW-SS1	nsample	JAX-47-IDW-SS1
samp_date	12/11/2002	samp_date	12/11/2002
lab_id	WS4555-7	lab_id	WS4555-7
qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG
Pct_Solids	83.5	Pct_Solids	83.5
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	6	U	
1,1,2,2-TETRACHLOROETHANE	6	U	
1,1,2-TRICHLOROETHANE	6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	6	U	
1,1-DICHLOROETHANE	6	U	
1,1-DICHLOROETHENE	6	U	
1,2,4-TRICHLOROBENZENE	6	U	
1,2-DIBROMO-3-CHLOROPROPANE	6	U	
1,2-DIBROMOETHANE	6	U	
1,2-DICHLOROBENZENE	6	U	
1,2-DICHLOROETHANE	6	U	
1,2-DICHLOROPROPANE	6	U	
1,3-DICHLOROBENZENE	6	U	
1,4-DICHLOROBENZENE	6	U	
2-BUTANONE	26	U	
2-HEXANONE	26	U	
4-METHYL-2-PENTANONE	26	U	
ACETONE	26	U	
BENZENE	6	U	
BROMODICHLOROMETHANE	6	U	
BROMOFORM	6	U	
BROMOMETHANE	6	U	
CARBON DISULFIDE	6	U	
CARBON TETRACHLORIDE	6	U	
CHLOROBENZENE	6	U	
CHLORODIBROMOMETHANE	6	U	
CHLOROETHANE	6	U	
CHLOROFORM	6	U	
CHLOROMETHANE	6	U	
CIS-1,2-DICHLOROETHENE	6	U	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	6	U	
CYCLOHEXANE	6	U	
DICHLORODIFLUOROMETHANE	6	U	
ETHYLBENZENE	6	U	
ISOPROPYLBENZENE	6	U	
M+P-XYLENES	6	U	
METHYL ACETATE	6	U	
METHYL CYCLOHEXANE	6	U	
METHYL TERT-BUTYL ETHER	6	U	
METHYLENE CHLORIDE	6	U	
O-XYLENE	6	U	
STYRENE	6	U	
TETRACHLOROETHENE	6	U	
TOLUENE	6	U	
TOTAL 1,2-DICHLOROETHENE	6	U	
TOTAL XYLENES	6	U	
TRANS-1,2-DICHLOROETHENE	6	U	
TRANS-1,3-DICHLOROPROPENE	6	U	
TRICHLOROETHENE	6	U	
TRICHLOROFLUOROMETHANE	6	U	
VINYL CHLORIDE	6	U	

PROJ_NO: 3966

SDG: WS4555 MEDIA: SOIL DATA FRACTION: P

nsample	JAX-47-IDW-SS1	nsample	JAX-47-SB16-S02	nsample	JAX-47-SB55-S01
samp_date	12/11/2002	samp_date	12/11/2002	samp_date	12/11/2002
lab_id	WS4555-7	lab_id	WS4555-4	lab_id	WS4555-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	83.6	Pct_Solids	80	Pct_Solids	90.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.9	U	
4,4'-DDE	3.9	U	
4,4'-DDT	3.9	U	
ALDRIN	2.0	U	
ALPHA-BHC	2.0	U	
ALPHA-CHLORDANE	2.0	U	
BETA-BHC	2.0	U	
DELTA-BHC	2.0	U	
DIELDRIN	3.9	U	
ENDOSULFAN I	2.0	U	
ENDOSULFAN II	3.9	U	
ENDOSULFAN SULFATE	3.9	U	
ENDRIN	3.9	U	
ENDRIN ALDEHYDE	3.9	U	
ENDRIN KETONE	3.9	U	
GAMMA-BHC (LINDANE)	2.0	U	
GAMMA-CHLORDANE	2.0	U	
HEPTACHLOR	2.0	U	
HEPTACHLOR EPOXIDE	2.0	U	
METHOXYCHLOR	20	U	
TOXAPHENE	39	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	4.1		
4,4'-DDE	3.0	J	P
4,4'-DDT	5.1		
ALDRIN	2.1	U	
ALPHA-BHC	2.1	U	
ALPHA-CHLORDANE	2.1	U	
BETA-BHC	2.1	U	
DELTA-BHC	2.1	U	
DIELDRIN	0.81	J	P
ENDOSULFAN I	2.1	U	
ENDOSULFAN II	4.1	U	
ENDOSULFAN SULFATE	4.1	U	
ENDRIN	4.1	U	
ENDRIN ALDEHYDE	4.1	U	
ENDRIN KETONE	4.1	U	
GAMMA-BHC (LINDANE)	2.1	U	
GAMMA-CHLORDANE	2.1	U	
HEPTACHLOR	2.1	U	
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	21	U	
TOXAPHENE	41	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.6	U	
4,4'-DDE	2.7	J	P
4,4'-DDT	4.1		
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	1.9	U	
BETA-BHC	1.9	U	
DELTA-BHC	1.9	U	
DIELDRIN	3.6	U	
ENDOSULFAN I	1.9	U	
ENDOSULFAN II	3.6	U	
ENDOSULFAN SULFATE	3.6	U	
ENDRIN	3.6	U	
ENDRIN ALDEHYDE	3.6	U	
ENDRIN KETONE	3.6	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	1.9	U	
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	1.9	U	
METHOXYCHLOR	19	U	
TOXAPHENE	36	U	

PROJ_NO: 3966

SDG: WS4555 MEDIA: SOIL DATA FRACTION: P

nsample	JAX-47-SB56-S01		nsample	JAX-47-SB56-S02		nsample	JAX-47-SB57-S01	
samp_date	12/11/2002		samp_date	12/11/2002		samp_date	12/11/2002	
lab_id	WS4555-5		lab_id	WS4555-3		lab_id	WS4555-1	
qc_type	NM		qc_type	NM		qc_type	NM	
units	UG/KG		units	UG/KG		units	UG/KG	
Pct_Solids	91.5		Pct_Solids	89.4		Pct_Solids	79.1	
DUP_OF:			DUP_OF:			DUP_OF:		

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.6	U	
4,4'-DDE	3.6	U	
4,4'-DDT	1.8	J	P
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	3.6	U	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	3.6	U	
ENDOSULFAN SULFATE	3.6	U	
ENDRIN	3.6	U	
ENDRIN ALDEHYDE	3.6	U	
ENDRIN KETONE	3.6	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	1.8	U	
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	18	U	
TOXAPHENE	36	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.7	U	
4,4'-DDE	3.7	U	
4,4'-DDT	1.0	J	P
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	1.9	U	
BETA-BHC	1.9	U	
DELTA-BHC	1.9	U	
DIELDRIN	3.7	U	
ENDOSULFAN I	1.9	U	
ENDOSULFAN II	3.7	U	
ENDOSULFAN SULFATE	3.7	U	
ENDRIN	3.7	U	
ENDRIN ALDEHYDE	3.7	U	
ENDRIN KETONE	3.7	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	1.9	U	
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	1.9	U	
METHOXYCHLOR	19	U	
TOXAPHENE	37	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.5	J	P
4,4'-DDE	1.6	J	P
4,4'-DDT	55		
ALDRIN	2.1	U	
ALPHA-BHC	2.1	U	
ALPHA-CHLORDANE	2.1	U	
BETA-BHC	2.1	U	
DELTA-BHC	2.1	U	
DIELDRIN	4.2	U	
ENDOSULFAN I	2.1	U	
ENDOSULFAN II	4.2	U	
ENDOSULFAN SULFATE	4.2	U	
ENDRIN	4.2	U	
ENDRIN ALDEHYDE	4.2	U	
ENDRIN KETONE	4.2	U	
GAMMA-BHC (LINDANE)	2.1	U	
GAMMA-CHLORDANE	2.1	U	
HEPTACHLOR	2.1	U	
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	21	U	
TOXAPHENE	42	U	

PROJ_NO: 3966

SDG: WS4555 MEDIA: SOIL DATA FRACTION: P

nsample	JAX-47-SB58-S01
samp_date	12/11/2002
lab_id	WS4555-2
qc_type	NM
units	UG/KG
Pct_Solids	74.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2400	J	P
4,4'-DDE	2200	J	P
4,4'-DDT	53000		
ALDRIN	2300	U	
ALPHA-BHC	2300	U	
ALPHA-CHLORDANE	2300	U	
BETA-BHC	2300	U	
DELTA-BHC	2300	U	
DIELDRIN	4400	U	
ENDOSULFAN I	2300	U	
ENDOSULFAN II	4400	U	
ENDOSULFAN SULFATE	4400	U	
ENDRIN	4400	U	
ENDRIN ALDEHYDE	4400	U	
ENDRIN KETONE	4400	U	
GAMMA-BHC (LINDANE)	2300	U	
GAMMA-CHLORDANE	2300	U	
HEPTACHLOR	2300	U	
HEPTACHLOR EPOXIDE	2300	U	
METHOXYCHLOR	23000	U	
TOXAPHENE	44000	U	

WS4555

HOLDING TIME

12/30/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	JAX-47-IDW-SS1	WS4555-7	NORMAL	WS4555	OV	12/11/02	12/12/02	12/12/02	1	0	1
UG/KG	WG1303-BLANK	WG1303-1	P BLANK	WS4555	OV	12/11/02	12/12/02	12/12/02	1	0	1
UG/KG	WG1303-LCS	WG1303-2	LCS	WS4555	OV	12/12/02	12/12/02	12/12/02	0	0	0
UG/KG	JAX-47-IDW-SS1	WS4555-7	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB16-S02	WS4555-4	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB55-S01	WS4555-6	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB56-S01	WS4555-5	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB56-S02	WS4555-3	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB57-S01	WS4555-1	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB58-S01	WS4555-2	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	WG1299-BLANK	WG1299-1	P BLANK	WS4555	PEST	12/12/02	12/12/02	12/13/02	0	1	1
UG/KG	WG1299-LCS	WG1299-2	LCS	WS4555	PEST	12/12/02	12/12/02	12/13/02	0	1	1
UG/KG	WG1299-LCSD	WG1299-3	LCSD	WS4555	PEST	12/12/02	12/12/02	12/13/02	0	1	1
%	JAX-47-IDW-SS1	WS4555-7	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB16-S02	WS4555-4	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB55-S01	WS4555-6	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB56-S01	WS4555-5	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB56-S02	WS4555-3	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB57-S01	WS4555-1	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB57-S01DUP	WS4555-1 DUP	DUPLICATE	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB58-S01	WS4555-2	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	WG1300-LCS	WG1300-2	LCS	WS4555	TS	12/12/02	12/12/02	12/13/02	0	1	1

DATA VALIDATION TRACKING FORM

Site Name :_NAS JACKSONVILLE_____ **Region**:___4_____

Project Manager:_ROOF,G._____ **CTO**:___162_____

Charge No.:____3966_____ **Validation**:

Validator:_____Lee, E._____ ☐ **Full**

QA:_____ ☐ **Limited**

■ **Cursory**

Sample Delivery Group:____WS4555_____

Fraction:		AQUEOUS	SOLID	AIR
☐	**METALS**	_____	_____	_____
■	**MISC**	_____	___7__	_____
☐	**RAD**	_____	_____	_____
☐	**AVS/SEM**	_____	_____	_____
☐	**OTHER**	_____	_____	_____

Date Assigned:_12/30/02_____
Due Date:_____01/06/03_____
Date Valid Complete:_____
Date QA Complete:_____

LOE Allotted: _____hrs
LOE Expended:
Validation _____hrs
Corrections _____hrs
QA _____hrs

Total LOE Expended _____hrs

PROJ_NO: 3966

SDG: WS4555 MEDIA: SOIL DATA FRACTION: M

nsample	JAX-47-IDW-SS1
samp_date	12/11/2002
lab_id	WS4555-7
qc_type	NM
Pct_Solids	84
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	84		

nsample	JAX-47-SB16-S02
samp_date	12/11/2002
lab_id	WS4555-4
qc_type	NM
Pct_Solids	80
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	80		

nsample	JAX-47-SB55-S01
samp_date	12/11/2002
lab_id	WS4555-6
qc_type	NM
Pct_Solids	90
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	90		

PROJ_NO: 3966

SDG: WS4555 MEDIA: SOIL DATA FRACTION: M

nsample	JAX-47-SB56-S01
samp_date	12/11/2002
lab_id	WS4555-5
qc_type	NM
Pct_Solids	92
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	92		

nsample	JAX-47-SB56-S02
samp_date	12/11/2002
lab_id	WS4555-3
qc_type	NM
Pct_Solids	89
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	89		

nsample	JAX-47-SB57-S01
samp_date	12/11/2002
lab_id	WS4555-1
qc_type	NM
Pct_Solids	79
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	79		

PROJ_NO: 3966

SDG: WS4555 MEDIA: SOIL DATA FRACTION: M

nsample	JAX-47-SB58-S01
samp_date	12/11/2002
lab_id	WS4555-2
qc_type	NM
Pct_Solids	75
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	75		

WS4555

HOLDING TIME

12/30/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	JAX-47-IDW-SS1	WS4555-7	NORMAL	WS4555	OV	12/11/02	12/12/02	12/12/02	1	0	1
UG/KG	WG1303-BLANK	WG1303-1	P BLANK	WS4555	OV	12/11/02	12/12/02	12/12/02	1	0	1
UG/KG	WG1303-LCS	WG1303-2	LCS	WS4555	OV	12/12/02	12/12/02	12/12/02	0	0	0
UG/KG	JAX-47-IDW-SS1	WS4555-7	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB16-S02	WS4555-4	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB55-S01	WS4555-6	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB56-S01	WS4555-5	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB56-S02	WS4555-3	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB57-S01	WS4555-1	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	JAX-47-SB58-S01	WS4555-2	NORMAL	WS4555	PEST	12/11/02	12/12/02	12/13/02	1	1	2
UG/KG	WG1299-BLANK	WG1299-1	P BLANK	WS4555	PEST	12/12/02	12/12/02	12/13/02	0	1	1
UG/KG	WG1299-LCS	WG1299-2	LCS	WS4555	PEST	12/12/02	12/12/02	12/13/02	0	1	1
UG/KG	WG1299-LCSD	WG1299-3	LCSD	WS4555	PEST	12/12/02	12/12/02	12/13/02	0	1	1
%	JAX-47-IDW-SS1	WS4555-7	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB16-S02	WS4555-4	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB55-S01	WS4555-6	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB56-S01	WS4555-5	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB56-S02	WS4555-3	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB57-S01	WS4555-1	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB57-S01DUP	WS4555-1 DUP	DUPLICATE	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	JAX-47-SB58-S01	WS4555-2	NORMAL	WS4555	TS	12/11/02	12/12/02	12/13/02	1	1	2
%	WG1300-LCS	WG1300-2	LCS	WS4555	TS	12/12/02	12/12/02	12/13/02	0	1	1

CTO162
SDG WS4555
MISC

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Report

Company Tetra Tech NUS, Inc.
Sdg WS4555

Qc Batch Id	Anal Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Recovery Acceptance Range
Parameter: Total Solids							
WG1300	12/13/02	12/12/02	%	91	92	102	80-120

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Quality Control Report

Sample Duplicate Report

Client: Tetra Tech NUS, Inc.
Sdg: WS4555

Sample	Anal Date	Units	Native Result	Duplicate Result	RPD	Criteria (%)
Total Solids						
WS4555-1	12/13/02	%	79	80	1	20

340 County Road No. 5
P.O. Box 720, Westbornk, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Sample Data Section

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-7
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-IDW-SS1	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	84 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-4
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB16-S02	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	80 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-6
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB55-S01	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	90 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-5
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB56-S01	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	92 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-3
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB56-S02	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	89 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-1
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB57-S01	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	79 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-2
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB58-S01	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	75 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Raw Data Section

TOTAL SOLIDS BATCH REPORT
Dec 13 2002, 09:29 am
Batch: WG1300

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
WG1300-1	SL	LCS	WG1300	12-DEC-02	.982 g	6.998 g	6.496 g	JF	13-DEC-02	91.6560	92 %	102	
WG1300-2	SL	DUP	WG1300	12-DEC-02	.979 g	8.186 g	6.719 g	JF	13-DEC-02	79.6450	80 %		1
WG1300-3	SL	DUP	WG1300	12-DEC-02	.979 g	10.45 g	8.392 g	JF	13-DEC-02	78.2700	78 %		3
WS4542-1	SL	SAMP	WG1300	12-DEC-02	.975 g	5.815 g	4.829 g	JF	13-DEC-02	79.6280	80 %		
WS4551-1	SL	SAMP	WG1300	12-DEC-02	.987 g	6.689 g	5.45 g	JF	13-DEC-02	78.2710	78 %		
WS4551-2	SL	SAMP	WG1300	12-DEC-02	.983 g	6.747 g	3.875 g	JF	13-DEC-02	50.1730	50 %		
WS4551-3	SL	SAMP	WG1300	12-DEC-02	.978 g	10.455 g	8.649 g	JF	13-DEC-02	80.9430	81 %		
WS4555-1	SL	SAMP	WG1300	12-DEC-02	.991 g	8.123 g	6.634 g	JF	13-DEC-02	79.1220	79 %		
WS4555-2	SL	SAMP	WG1300	12-DEC-02	.975 g	7.41 g	5.796 g	JF	13-DEC-02	74.9180	75 %		
WS4555-3	SL	SAMP	WG1300	12-DEC-02	.986 g	9.276 g	8.394 g	JF	13-DEC-02	89.3610	89 %		
WS4555-4	SL	SAMP	WG1300	12-DEC-02	.983 g	10.685 g	8.746 g	JF	13-DEC-02	80.0140	80 %		
WS4555-5	SL	SAMP	WG1300	12-DEC-02	.98 g	5.937 g	5.516 g	JF	13-DEC-02	91.5070	92 %		
WS4555-6	SL	SAMP	WG1300	12-DEC-02	.975 g	9.071 g	8.301 g	JF	13-DEC-02	90.4890	90 %		
WS4555-7	SL	SAMP	WG1300	12-DEC-02	.976 g	10.856 g	9.231 g	JF	13-DEC-02	83.5530	84 %		
WS4556-1	SL	SAMP	WG1300	12-DEC-02	.977 g	7.124 g	6.313 g	JF	13-DEC-02	86.8060	87 %		
WS4556-2	SL	SAMP	WG1300	12-DEC-02	.973 g	6.808 g	5.84 g	JF	13-DEC-02	83.4100	83 %		
WS4556-3	SL	SAMP	WG1300	12-DEC-02	.982 g	6.117 g	5.485 g	JF	13-DEC-02	87.6920	88 %		
WS4556-4	SL	SAMP	WG1300	12-DEC-02	.984 g	7.689 g	6.808 g	JF	13-DEC-02	86.8600	87 %		
WS4557-1	SL	SAMP	WG1300	12-DEC-02	.983 g	6.55 g	4.633 g	JF	13-DEC-02	65.5650	66 %		
WS4557-2	SL	SAMP	WG1300	12-DEC-02	.977 g	5.386 g	3.927 g	JF	13-DEC-02	66.9080	67 %		
WS4557-3	SL	SAMP	WG1300	12-DEC-02	.983 g	5.199 g	3.747 g	JF	13-DEC-02	65.5600	66 %		

Comments:

WG1300-1	WS4555-1
WG1300-2	WS4555-1
WG1300-3	WS4551-3
WS4551-1	VOA: 40ml vial with 5ml MeOH. Include DRO Chromatogram.
WS4555-1	Faxed results due 12/13/02. Rpt to MDL & J to PQL.
WS4555-2	Faxed results due 12/13/02. Rpt to MDL & J to PQL.
WS4555-3	Faxed results due 12/13/02. Rpt to MDL & J to PQL.
WS4555-4	Faxed results due 12/13/02. Rpt to MDL & J to PQL.
WS4555-5	Faxed results due 12/13/02. Rpt to MDL & J to PQL.
WS4555-6	Faxed results due 12/13/02. Rpt to MDL & J to PQL.
WS4555-7	Faxed results due 12/13/02. Rpt to MDL & J to PQL.

Entered by: _____ Date: 12-13-02 Accepted by: _____ Date: 121302

Katahdin Analytical Services 5000014

KATAHDIN ANALYTICAL SERVICES

Total Solids/Total Volatile Solids SM 2500 G

Total Solids, CLP SOW788: ✓ Total Solids, SM2540G: ____ PQL: 50 mg residue weight; 1.0 wt% Total Solids

Total Volatile Solids: ____ PQL: 50 mg residue weight; 1.0 wt% Total Volatile Solids

Total Solids LCS Sand ID/ Lot #:

Notes: WG1000

ASTM Class Weights		
True WT (g)	Initial WT (g)	Final WT (g)
2.0000	2.002	1.999
5.0000	5.001	5.000
10.0000	10.000	10.000
100.0000		

98°C IN:	
103-105°C:	1500
103-105°C OUT:	720
500°C IN:	
500°C OUT:	

KAS Sample ID	As Rec'd Decanted: As (✓)	As Rec'd Decanted: Dec (✓)	Foreign Matter Removed (✓)	Dish ID	Dish WT (g)	Initial Dish + Sample WT (g)	Dry 1 Dish + Sample WT (g)	Dry 2 Dish + Sample WT (g)	Ash 1 Dish + Sample WT (g	Ash 2 Dish + Sample WT (g)
BLANK				1	0.976	0.978	0.978			
LCS				2	0.982	6.998	6.496			
WS4555-1				3	0.991	8.123	6.634			
DUP				4	0.979	8.186	6.719			
-2				5	0975	7.410	5.796			
-3				6	0986	9.276	8.394			
-4				7	0983	10.685	8.746			
-5				8	0984	5.937	5.516			
-6				9	0975	9.071	8.301			
-7				10	0976	10.856	9.231			
WS4542-1				11	0975	5.815	4.629			
WS4551-1				12	0.987	6.689	5.450			
-2				13	0983	6.747	3.575			
-3				14	0978	10.455	8.649			
-3 DUP				15	0.979	10.458	8.392			
WS4556-1				16	0977	7.124	6.313			
-2				17	0973	6.808	5.840			
-3				18	0982	6.417	5.486			
-4				19	0984	7.659	6808			
WS4557-1				20	0983	6.550	4.633			
-2				21	0977	5.386	3.927			
-3				22	0983	5199	3.747			

ANALYST: [signature] DATE: 12.12.02 / 12-13-02

REVIEWED BY: [signature] DATE: 12/13/02

CTO162
SDGW54555
OV

VOLATILES DATA

QC Summary Section

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG1303-LCS	WG1303-2	102	104	99	99	0
02	WG1303-BLANK	WG1303-1	104	102	107	107	0
03	JAX-47-IDW-SS1	WS4555-7	94	87	95	94	0
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

	QC LIMITS
SMC1 (DBF) = Dibromofluoromethane	(69-148)
SMC2 (DCA) = 1,2-Dichloroethane-D4	(66-149)
SMC3 (TOL) = Toluene-D8	(68-147)
SMC4 (BFB) = P-Bromofluorobenzene	(64-152)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG1303-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVI Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab File ID: Q9104 Lab Sample ID: WG1303-1

Date Analyzed: 12/12/02 Time Analyzed: 1807

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS-Q

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG1303-LCS	WG1303-2	Q9101	12/12/02	1614
02	JAX-47-IDW-SS1	WS4555-7	Q9105	12/12/02	1844
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

Katahdin Analytical Services 1000004

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab File ID: QB277 BFB Injection Date: 12/12/02

Instrument ID: GCMS-Q BFB Injection Time: 1043

GC Column: RTX-502 ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	45.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	88.4
175	4.0 - 9.0% of mass 174	7.7 (8.7)1
176	95.0 - 101.0% of mass 174	84.7 (95.8)1
177	5.0 - 9.0% of mass 176	5.8 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD020Q12A	Q9095	12/12/02	1149
02		VSTD010Q12A	Q9096	12/12/02	1226
03		VSTD005Q12A	Q9097	12/12/02	1304
04		VSTD100Q12A	Q9098	12/12/02	1341
05		VSTD200Q12A	Q9099	12/12/02	1418
06		VSTD050Q12B	Q9100	12/12/02	1527
07	WG1303-LCS	WG1303-2	Q9101	12/12/02	1614
08	WG1303-BLANK	WG1303-1	Q9104	12/12/02	1807
09	JAX-47-IDW-SS1	WS4555-7	Q9105	12/12/02	1844
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab File ID (Standard): Q9100 Date Analyzed: 12/12/02

Instrument ID: GCMS-Q Time Analyzed: 1527

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

			IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD		1648692	10.01	1518626	11.24	1159829	16.22
	UPPER LIMIT		3297384	10.51	3037252	11.74	2319658	16.72
	LOWER LIMIT		824346	9.51	759313	10.74	579915	15.72
	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG1303-LCS	WG1303-2	1574691	10.03	1501770	11.24	1111197	16.23
02	WG1303-BLANK	WG1303-1	1499816	10.06	1375267	11.29	1059151	16.24
03	JAX-47-IDW-SS1	WS4555-7	1509750	10.04	1411416	11.26	1037099	16.23
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab File ID (Standard): Q9100 Date Analyzed: 12/12/02

Instrument ID: GCMS-Q Time Analyzed: 1527

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

			IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD		670602	20.43				
	UPPER LIMIT		1341204	20.93				
	LOWER LIMIT		335301	19.93				
	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG1303-LCS	WG1303-2	635616	20.46				
02	WG1303-BLANK	WG1303-1	580062	20.44				
03	JAX-47-IDW-SS1	WS4555-7	550435	20.43				
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL
% Solids: 83.5

Lab ID: WS4555-7
Client ID: JAX-47-IDW-SS1
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	6	1.0	5	6	0.7
74-87-3	Chloromethane	U	6	1.0	5	6	1
75-01-4	Vinyl chloride	U	6	1.0	5	6	0.8
74-83-9	Bromomethane	U	6	1.0	5	6	1
75-00-3	Chloroethane	U	6	1.0	5	6	0.9
75-69-4	Trichlorofluoromethane	U	6	1.0	5	6	0.8
76-13-1	Freon-113	U	6	1.0	5	6	1
75-35-4	1,1-Dichloroethene	U	6	1.0	5	6	2
67-64-1	Acetone	U	26	1.0	20	26	8
75-15-0	Carbon Disulfide	U	6	1.0	5	6	0.8
75-09-2	Methylene Chloride	U	6	1.0	5	6	3
156-60-5	trans-1,2-Dichloroethene	U	6	1.0	5	6	1.0
1634-04-4	Methyl tert-butyl ether	U	6	1.0	5	6	1
79-20-9	Methyl Acetate	U	6	1.0	5	6	0.00
75-34-3	1,1-Dichloroethane	U	6	1.0	5	6	0.8
156-59-2	cis-1,2-Dichloroethene	U	6	1.0	5	6	0.8
78-93-3	2-Butanone	U	26	1.0	20	26	7
67-66-3	Chloroform	U	6	1.0	5	6	0.7
71-55-6	1,1,1-Trichloroethane	U	6	1.0	5	6	0.7
56-23-5	Carbon Tetrachloride	U	6	1.0	5	6	0.9
71-43-2	Benzene	U	6	1.0	5	6	0.9
1735-17-7	Cyclohexane	U	6	1.0	5	6	0.5
107-06-2	1,2-Dichloroethane	U	6	1.0	5	6	2
79-01-6	Trichloroethene	U	6	1.0	5	6	2
	Methylcyclohexane	U	6	1.0	5	6	0.00
78-87-5	1,2-Dichloropropane	U	6	1.0	5	6	3
75-27-4	Bromodichloromethane	U	6	1.0	5	6	1
10061-01-5	cis-1,3-dichloropropene	U	6	1.0	5	6	3
108-10-1	4-methyl-2-pentanone	U	26	1.0	20	26	16
108-88-3	Toluene	U	6	1.0	5	6	2
10061-02-6	trans-1,3-Dichloropropene	U	6	1.0	5	6	2
79-00-5	1,1,2-Trichloroethane	U	6	1.0	5	6	2
127-18-4	Tetrachloroethene	U	6	1.0	5	6	1
591-78-6	2-Hexanone	U	26	1.0	20	26	8
124-48-1	Dibromochloromethane	U	6	1.0	5	6	2
106-93-4	1,2-Dibromoethane	U	6	1.0	5	6	2
108-90-7	Chlorobenzene	U	6	1.0	5	6	1
100-41-4	Ethylbenzene	U	6	1.0	5	6	0.8
	m+p-Xylenes	U	6	1.0	5	6	2
95-47-6	o-Xylene	U	6	1.0	5	6	1.0
100-42-5	Styrene	U	6	1.0	5	6	0.7
75-25-2	Bromoform	U	6	1.0	5	6	1
98-82-8	Isopropylbenzene	U	6	1.0	5	6	3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL
% Solids: 83.5

Lab ID: WS4555-7
Client ID: JAX-47-IDW-SS1
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	6	1.0	5	6	3
541-73-1	1,3-Dichlorobenzene	U	6	1.0	5	6	1
106-46-7	1,4-Dichlorobenzene	U	6	1.0	5	6	1
95-50-1	1,2-Dichlorobenzene	U	6	1.0	5	6	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	U	6	1.0	5	6	2
120-82-1	1,2,4-Trichlorobenzene	U	6	1.0	5	6	1
540-59-0	1,2-Dichloroethylene (total)	U	6	1.0	5	6	3
1330-20-7	Xylenes (total)	U	6	1.0	5	6	3
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		87%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		94%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9105.D
Lab Smp Id: WS4555-7 Client Smp ID: JAX-47-IDW-SS1
Inj Date : 12-DEC-2002 18:44
Operator : JEY Inst ID: gcms-q.i
Smp Info : WS4555-7
Misc Info : SW846 8260B
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 15:27 Cal File: Q9100.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12
Processing Host: TARGET06

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	16.500	% moisture
Vt	5.000	Purge Volume (ml)
Ws	4.660	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
$ 39 Dibromofluoromethane	113	9.924	9.893	(0.989)	912559	46.8181	60.2
$ 47 1,2-Dichloroethane-D4	65	10.524	10.503	(1.049)	482977	43.6490	56.1
$ 60 Toluene-D8	98	13.689	13.679	(1.216)	1580600	47.5332	61.1
$ 81 P-Bromofluorobenzene	95	18.342	18.333	(1.629)	949580	46.7779	60.1
* 44 Pentafluorobenzene	168	10.035	10.015	(1.000)	1509750	50.0000	
* 53 1,4-Difluorobenzene	114	11.257	11.236	(1.000)	1411416	50.0000	
* 71 Chlorobenzene-D5	117	16.232	16.222	(1.000)	1037099	50.0000	
* 97 1,4-Dichlorobenzene-D4	152	20.430	20.431	(1.000)	550435	50.0000	

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9105.D
Lab Smp Id: WS4555-7 Client Smp ID: JAX-47-IDW-SS1
Inj Date : 12-DEC-2002 18:44
Operator : JEY Inst ID: gcms-q.i
Smp Info : WS4555-7
Misc Info : SW846 8260B
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 15:27 Cal File: Q9100.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12
Processing Host: TARGET06

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9105.D
Lab Smp Id: WS4555-7
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: SW846 8260B

Calibration Date: 12-DEC-2002
Calibration Time: 15:27
Client Smp ID: JAX-47-IDW-SS1
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1509750	-8.43
53 1,4-Difluorobenze	1518626	759313	3037252	1411416	-7.06
71 Chlorobenzene-D5	1159829	579915	2319658	1037099	-10.58
97 1,4-Dichlorobenze	670602	335301	1341204	550435	-17.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.04	0.21
53 1,4-Difluorobenze	11.24	10.74	11.74	11.26	0.19
71 Chlorobenzene-D5	16.22	15.72	16.72	16.23	0.06
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.43	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Tetra Tech NUS, Inc
Client SDG: WS4555
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: WS4555-7
Client Smp ID: JAX-47-IDW-SS1
Level: LOW
Operator: JEY
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: spikelist.spk
Quant Type: ISTD
Sublist File: SW8260OLM.sub
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: SW846 8260B

SURROGATE COMPOUND	AMOUNT ADDED ug/kg	AMOUNT RECOVERED ug/kg	% RECOVERED	LIMITS
$ 39 Dibromofluorometha	50.0	46.8	93.64	69-148
$ 47 1,2-Dichloroethane	50.0	43.6	87.30	66-149
$ 60 Toluene-D8	50.0	47.5	95.07	68-147
$ 81 P-Bromofluorobenze	50.0	46.8	93.56	64-152

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Tetra Tech NUS, Inc
Lab Smp Id: WS4555-7
Operator : JEY
Sample Location:
Sample Matrix: SOIL
Analysis Type: VOA
Inj Date: 12-DEC-2002 18:44

Client SDG: WS4555
Client Smp ID: JAX-47-IDW-SS1
Sample Date: 11-DEC-2002
Sample Point:
Date Received:12-DEC-2002 12:00
Level: LOW

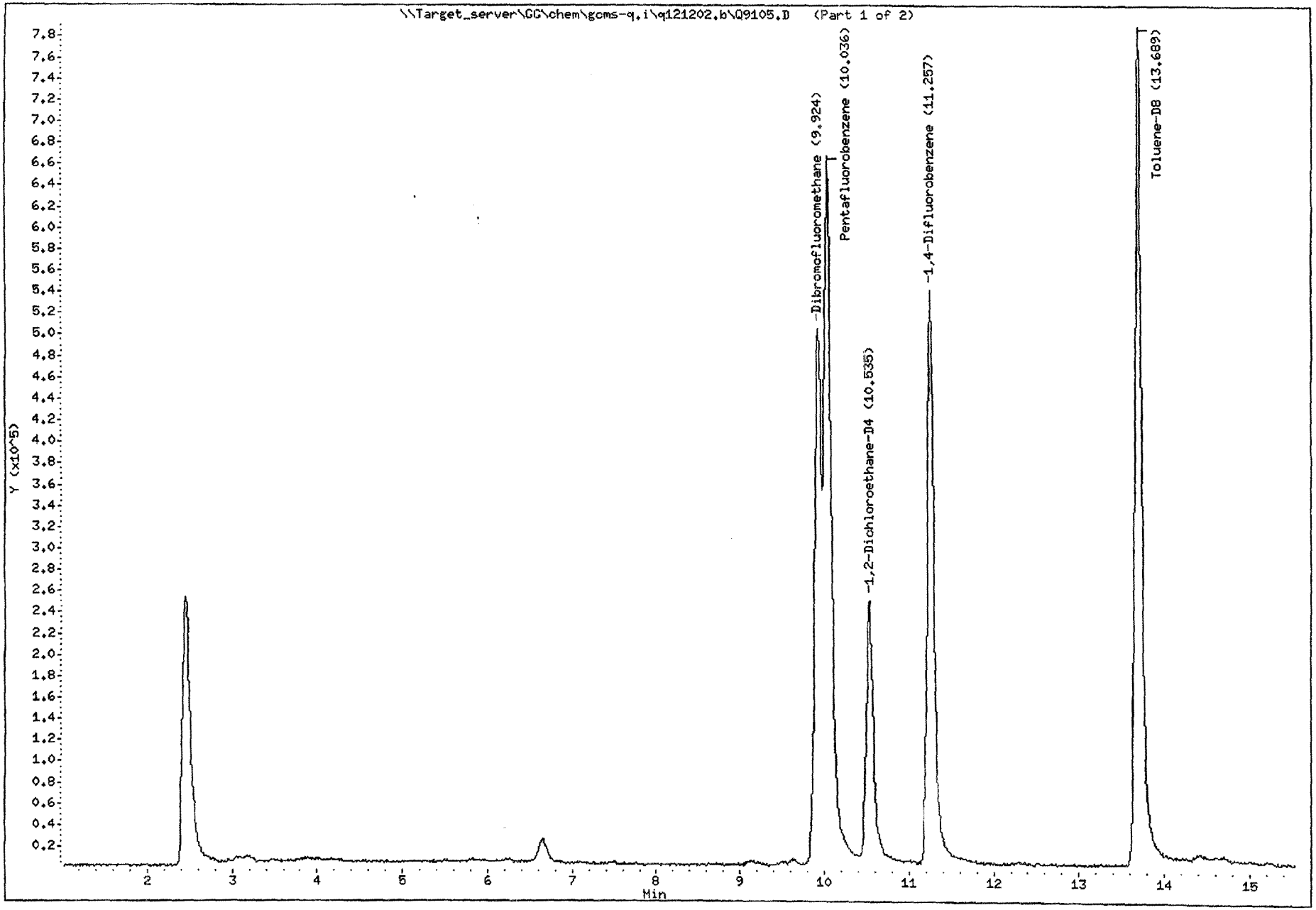
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

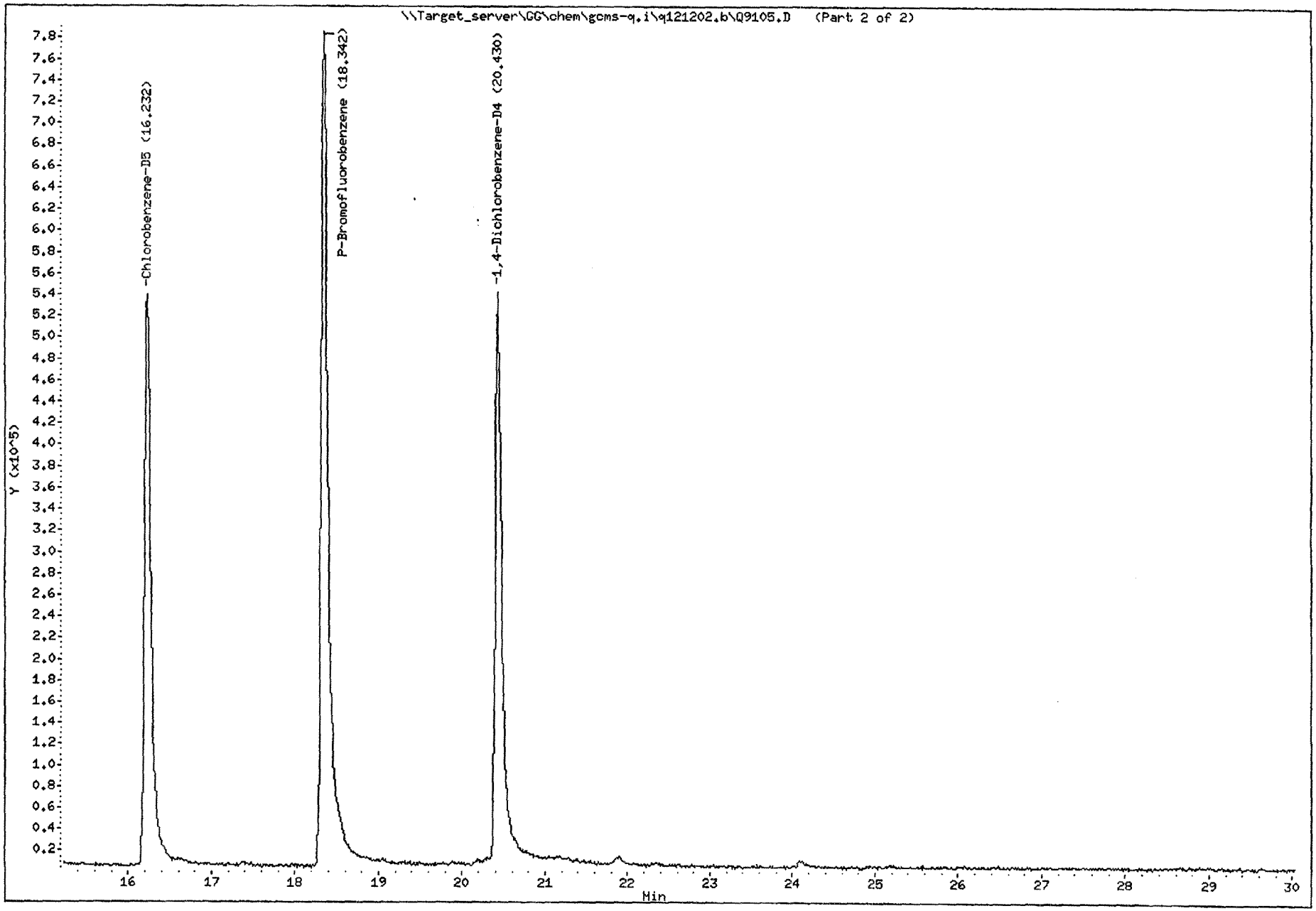
Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9105.D
Date : 12-DEC-2002 18:44
Client ID: JAX-47-IDW-SS1
Sample Info: WS4555-7

Instrument: gcms-q.i



Katahdin Analytical Services 1000016

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9105.D
Date : 12-DEC-2002 18:44
Client ID: JAX-47-IDW-SS1
Instrument: gcms-q.i
Sample Info: WS4555-7



Katahdin Analytical Services 1000017

Standards Data Section

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GCMS-Q Calibration Date(s): 12/12/02 12/12/02

Column: RTX-624 ID: 0.18 (mm) Calibration Time(s): 1149 1527

LAB FILE ID: RF5: Q9097 RF10: Q9096 RF20: Q9095
RF50: Q9100 RF100: Q9099 RF200: Q9098

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
Dichlorodifluoromethane	0.690	0.658	0.713	0.596	0.542	0.584	AVRG		0.63053	10.550	15.000	
Chloromethane	53641	100760	230080	420800	727430	1403900	LINR	-1e-001	4.29831	0.99702	0.99000	
Vinyl chloride	0.298	0.290	0.318	0.275	0.254	0.270	AVRG		0.28436	8.019	15.000	
Bromomethane	0.158	0.149	0.118	0.175	0.181	0.154	AVRG		0.15597	14.190	15.000	
Chloroethane	0.237	0.213	0.235	0.198	0.177	0.174	AVRG		0.20576	13.316	15.000	
Trichlorofluoromethane	0.771	0.784	0.863	0.747	0.682	0.714	AVRG		0.76025	8.243	15.000	
Freon-113	0.696	0.665	0.719	0.662	0.548	0.562	AVRG		0.64201	11.030	15.000	
1,1-Dichloroethene	0.410	0.363	0.426	0.389	0.309	0.316	AVRG		0.36879	13.130	15.000	
Acetone	0.101	0.067	0.009	0.054	0.036	0.040	AVRG		5e-002	60.723	15.000	<-
Carbon Disulfide	0.787	0.803	0.939	0.882	0.724	0.770	AVRG		0.81759	9.643	15.000	
Methylene Chloride	98050	179030	304820	620730	996830	1865300	LINR	-0.1796	3.28737	0.99816	0.99000	
trans-1,2-Dichloroethene	0.458	0.446	0.524	0.482	0.379	0.394	AVRG		0.44701	12.102	15.000	
Methyl tert-butyl ether	0.537	0.488	0.548	0.572	0.466	0.488	AVRG		0.51658	8.008	15.000	
Methyl Acetate	32021	38674	71229	309890	482490	1013700	LINR	6e-002	5.74226	0.99366	0.99000	
1,1-Dichloroethane	0.703	0.647	0.742	0.668	0.548	0.577	AVRG		0.64762	11.409	15.000	
cis-1,2-Dichloroethene	0.431	0.422	0.494	0.451	0.365	0.384	AVRG		0.42449	10.934	15.000	
2-Butanone	0.104	0.078	0.012	0.073	0.050	0.057	AVRG		6e-002	49.502	15.000	<-
Chloroform	0.913	0.832	0.908	0.829	0.657	0.691	AVRG		0.80518	13.422	15.000	
1,1,1-Trichloroethane	0.791	0.770	0.877	0.813	0.636	0.646	AVRG		0.75569	12.654	15.000	
Carbon Tetrachloride	196870	302540	601870	1236100	1891300	3438800	LINR	-0.2407	1.72291	0.99632	0.99000	
Benzene	1.310	1.120	1.327	1.246	0.979	0.980	AVRG		1.16026	13.602	15.000	
Cyclohexane	0.580	0.553	0.567	0.555	0.448	0.468	AVRG		0.52849	10.537	15.000	
1,2-Dichloroethane	0.521	0.450	0.523	0.531	0.433	0.436	AVRG		0.48257	9.813	15.000	
Trichloroethene	0.551	0.512	0.580	0.548	0.427	0.431	AVRG		0.50795	12.779	15.000	
Methylcyclohexane	0.750	0.658	0.727	0.688	0.554	0.564	AVRG		0.65691	12.502	15.000	
1,2-Dichloropropane	0.396	0.349	0.401	0.390	0.309	0.316	AVRG		0.36004	11.526	15.000	
Bromodichloromethane	0.765	0.684	0.820	0.817	0.643	0.664	AVRG		0.73220	10.725	15.000	
cis-1,3-dichloropropene	0.539	0.555	0.636	0.684	0.540	0.570	AVRG		0.58742	10.050	15.000	
4-methyl-2-pentanone	0.464	0.331	0.080	0.496	0.361	0.380	AVRG		0.35195	41.837	15.000	<-
Toluene	0.972	0.879	1.019	0.978	0.744	0.752	AVRG		0.89052	13.433	15.000	
trans-1,3-Dichloropropene	0.409	0.432	0.497	0.552	0.445	0.486	AVRG		0.47038	11.120	15.000	
1,1,2-Trichloroethane	0.333	0.274	0.324	0.342	0.271	0.278	AVRG		0.30373	10.722	15.000	
Tetrachloroethene	0.895	0.777	0.877	0.899	0.667	0.674	AVRG		0.79835	13.583	15.000	
2-Hexanone	0.516	0.420	0.098	0.602	0.406	0.450	AVRG		0.41510	41.336	15.000	<-
Dibromochloromethane	0.954	0.807	0.956	1.081	0.847	0.875	AVRG		0.91986	10.693	15.000	
1,2-Dibromoethane	0.592	0.507	0.607	0.639	0.523	0.536	AVRG		0.56761	9.304	15.000	
Chlorobenzene	1.729	1.461	1.599	1.624	1.244	1.303	AVRG		1.49346	12.833	15.000	
Ethylbenzene	2.568	2.167	2.221	2.446	1.880	1.956	AVRG		2.20617	12.147	15.000	
m+p-Xylenes	0.909	0.809	0.961	0.916	0.702	0.692	AVRG		0.83151	13.880	15.000	
o-Xylene	0.959	0.845	0.936	0.962	0.728	0.752	AVRG		0.86378	12.152	15.000	
Styrene	1.159	1.094	1.251	1.297	1.005	1.047	AVRG		1.14226	10.076	15.000	
Bromoform	0.646	0.586	0.697	0.862	0.683	0.722	AVRG		0.69937	13.250	15.000	
Isopropylbenzene	5.208	4.307	4.805	4.898	3.714	3.746	AVRG		4.44636	14.076	15.000	
1,1,2,2-Tetrachloroethane	1.553	1.145	1.262	1.424	1.145	1.180	AVRG		1.28494	13.112	15.000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GCMS-Q Calibration Date(s): 12/12/02 12/12/02

Column: RTX-624 ID: 0.18 (mm) Calibration Time(s): 1149 1527

LAB FILE ID: RF5: Q9097 RF10: Q9096 RF20: Q9095
RF50: Q9100 RF100: Q9099 RF200: Q9098

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
1,3-Dichlorobenzene	2.635	2.165	2.335	2.450	1.868	1.962	AVRG		2.23563	13.133	15.000	
1,4-Dichlorobenzene	162180	341090	724340	1889400	2785500	5461300	LINR	-0.1091	0.47510	0.99430	0.99000	
1,2-Dichlorobenzene	2.429	2.044	2.248	2.397	1.827	1.881	AVRG		2.13761	12.122	15.000	
1,2-Dibromo-3-Chloropropane	0.231	0.189	0.228	0.274	0.242	0.275	AVRG		0.24004	13.488	15.000	
1,2,4-Trichlorobenzene	1.684	1.462	1.445	1.712	1.331	1.382	AVRG		1.50266	10.552	15.000	
1,2-Dichloroethylene (total)							AVRG				0.000	<-
Xylenes (total)							AVRG				0.000	<-
Dibromofluoromethane	0.691	0.660	0.659	0.658	0.602	0.603	AVRG		0.64552	5.513	15.000	
1,2-Dichloroethane-D4	0.377	0.356	0.378	0.358	0.360	0.370	AVRG		0.36645	2.690	15.000	
Toluene-D8	1.306	1.155	1.167	1.234	1.094	1.112	AVRG		1.17798	6.734	15.000	
P-Bromofluorobenzene	0.818	0.710	0.684	0.749	0.665	0.689	AVRG		0.71913	7.806	15.000	

Average %RSD test result.

Calculate Average %RSD: 15.45870495
Maximum Average %RSD: 15.00000000

Note: Failed Average %RSD Test.

FORM VI VOA

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9095.D
Lab Smp Id: VSTD020Q12A
Inj Date : 12-DEC-2002 11:49
Operator : JEY Inst ID: gcms-q.i
Smp Info : VSTD020Q12A
Misc Info : 5970-Q;
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 11:49 Cal File: Q9095.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
1 Dichlorodifluoromethane	85	2.618	2.707	(1.000)	449433	20.0000	22.6
2 Chloromethane	50	2.951	3.074	(1.000)	230077	20.0000	26.4
3 Vinyl chloride	62	3.096	3.196	(1.000)	200863	20.0000	22.4
4 Bromomethane	94	3.684	3.785	(1.000)	74660	20.0000	14.0 (M)
5 Chloroethane	64	3.862	3.962	(1.000)	148028	20.0000	22.8
6 Trichlorofluoromethane	101	4.273	4.406	(1.000)	544077	20.0000	22.7
11 Freon-113	151	5.294	5.417	(1.000)	453603	20.0000	22.4
9 1,1-Dichloroethene	96	5.339	5.472	(1.000)	268430	20.0000	23.1
15 Acetone	58	5.616	5.761	(1.000)	29807	100.000	18.4 (aM)
10 Carbon Disulfide	76	5.728	5.861	(1.000)	592144	20.0000	22.7
14 Methylene Chloride	84	6.460	6.594	(1.000)	304823	20.0000	22.8
17 trans-1,2-Dichloroethene	96	6.905	7.038	(1.000)	330085	20.0000	23.4
19 Methyl tert-butyl ether	73	6.894	7.027	(1.000)	690953	40.0000	42.4
20 Methyl Acetate	43	6.261	6.383	(1.000)	71229	20.0000	13.8 (M)
27 1,1-Dichloroethane	63	7.793	7.926	(1.000)	467945	20.0000	22.9
31 cis-1,2-Dichloroethene	96	8.904	9.026	(1.000)	311165	20.0000	23.2
42 2-Butanone	72	8.992	9.115	(1.000)	38683	100.000	19.7 (aM)
36 Chloroform	83	9.481	9.604	(1.000)	572529	20.0000	22.6
40 1,1,1-Trichloroethane	97	9.703	9.837	(1.000)	553088	20.0000	23.2
37 Carbon Tetrachloride	117	9.914	10.059	(1.000)	601866	20.0000	22.4
43 Benzene	78	10.347	10.470	(1.000)	799551	20.0000	22.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)	
45	Cyclohexane	56	9.670	9.804	(1.000)	357290	20.0000	21.4	(TM)
50	1,2-Dichloroethane	62	10.525	10.637	(1.000)	315320	20.0000	21.7	
51	Trichloroethene	95	11.491	11.614	(1.000)	349212	20.0000	22.8	
52	Methylcyclohexane	83	11.680	11.814	(1.000)	437979	20.0000	22.1	
55	1,2-Dichloropropane	63	11.935	12.069	(1.000)	241515	20.0000	21.8	
56	Bromodichloromethane	83	12.413	12.536	(1.000)	493747	20.0000	21.7	
57	cis-1,3-dichloropropene	75	13.190	13.313	(1.000)	382975	20.0000	21.6	
63	4-methyl-2-pentanone	43	13.468	13.579	(1.000)	241834	100.000	22.8	
62	Toluene	92	13.668	13.790	(1.000)	613769	20.0000	22.9	
65	trans-1,3-Dichloropropene	75	14.190	14.312	(1.000)	299662	20.0000	21.2	
66	1,1,2-Trichloroethane	83	14.501	14.612	(1.000)	195282	20.0000	21.3	
64	Tetrachloroethene	164	14.567	14.690	(0.905)	424123	20.0000	21.1	
70	2-Hexanone	43	14.900	15.012	(0.926)	236051	100.000	23.5	(M)
67	Dibromochloromethane	129	15.123	15.245	(0.940)	461979	20.0000	20.0	
69	1,2-Dibromoethane	107	15.322	15.456	(1.000)	365906	20.0000	21.4	
72	Chlorobenzene	112	16.144	16.267	(1.003)	773063	20.0000	21.2	
73	Ethylbenzene	91	16.289	16.422	(1.012)	1073570	20.0000	20.1	(M)
76	m+p-Xylenes	106	16.511	16.633	(1.026)	929387	40.0000	46.2	
77	o-Xylene	106	17.210	17.344	(1.070)	452331	20.0000	21.7	
78	Styrene	104	17.266	17.389	(1.073)	604800	20.0000	21.9	
79	Bromoform	173	17.610	17.744	(1.095)	337161	20.0000	19.2	
80	Isopropylbenzene	105	17.843	17.977	(0.880)	1355649	20.0000	21.0	
87	1,1,2,2-Tetrachloroethane	83	18.521	18.654	(0.913)	356065	20.0000	19.6	
96	1,3-Dichlorobenzene	146	20.142	20.287	(0.993)	658769	20.0000	20.9	
98	1,4-Dichlorobenzene	146	20.320	20.465	(1.002)	724343	20.0000	18.9	
101	1,2-Dichlorobenzene	146	20.997	21.153	(1.036)	634366	20.0000	21.0	
102	1,2-Dibromo-3-Chloropropane	75	22.463	22.619	(1.108)	64430	20.0000	19.0	
105	1,2,4-Trichlorobenzene	180	23.918	24.096	(1.180)	407619	20.0000	18.8	
$ 39	Dibromofluoromethane	113	9.770	9.893	(1.000)	415605	20.0000	20.4	
$ 47	1,2-Dichloroethane-D4	65	10.381	10.503	(1.000)	238400	20.0000	21.0	
$ 60	Toluene-D8	98	13.557	13.679	(1.000)	703206	20.0000	19.8	
$ 81	P-Bromofluorobenzene	95	18.199	18.333	(1.000)	411844	20.0000	19.1	(M)
* 44	Pentafluorobenzene	168	9.892	10.015	(1.000)	1576174	50.0000		(M)
* 53	1,4-Difluorobenzene	114	11.114	11.236	(1.000)	1505970	50.0000		(TM)
* 71	Chlorobenzene-D5	117	16.089	16.222	(1.000)	1208529	50.0000		
* 97	1,4-Dichlorobenzene-D4	152	20.275	20.431	(1.000)	705383	50.0000		

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9095.D
Lab Smp Id: VSTD020Q12A
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: 5970-Q;

Calibration Date: 12-DEC-2002
Calibration Time: 15:27
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

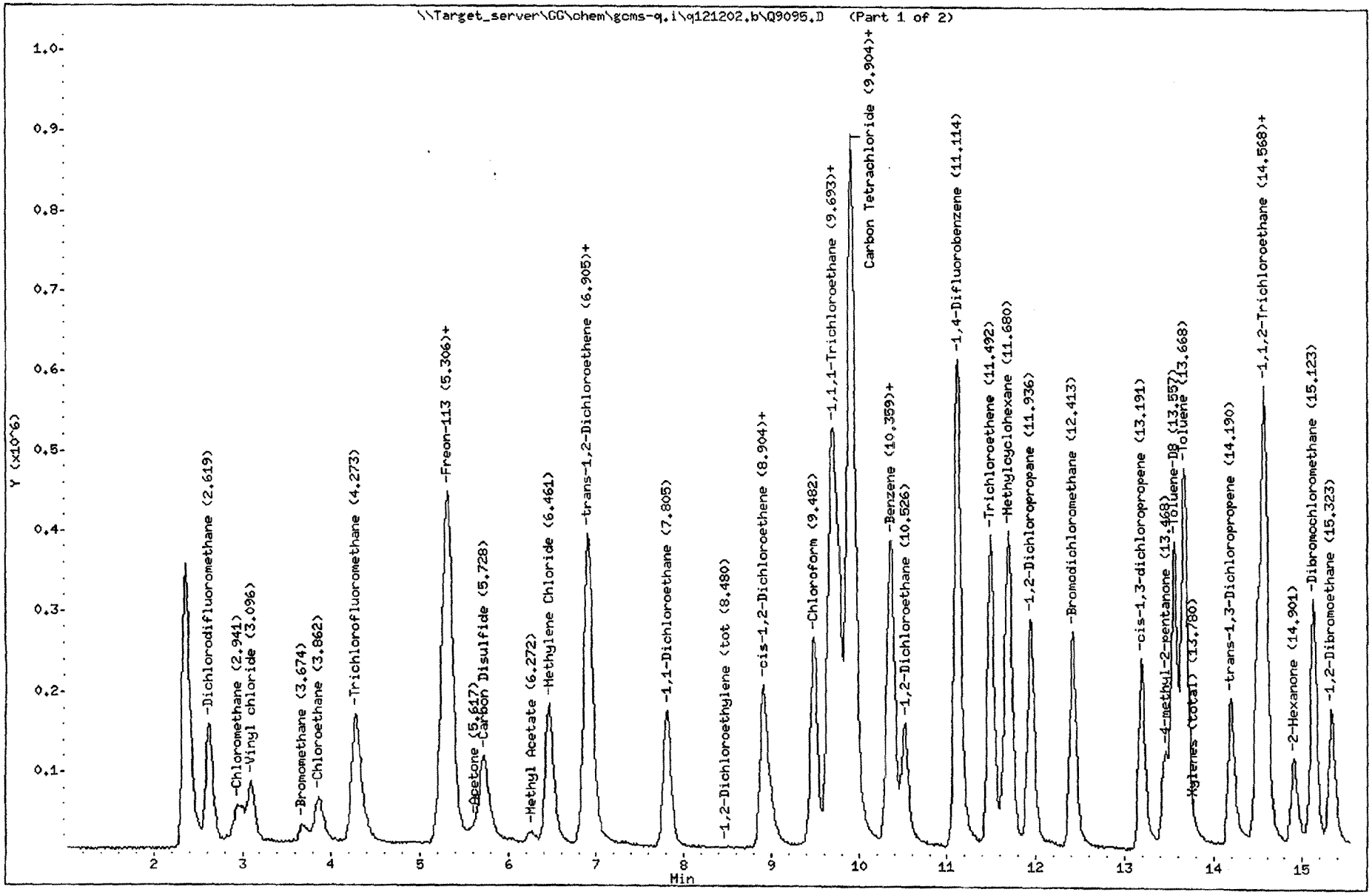
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1576174	-4.40
53 1,4-Difluorobenze	1518626	759313	3037252	1505970	-0.83
71 Chlorobenzene-D5	1159829	579915	2319658	1208529	4.20
97 1,4-Dichlorobenze	670602	335301	1341204	705383	5.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	9.89	-1.22
53 1,4-Difluorobenze	11.24	10.74	11.74	11.11	-1.09
71 Chlorobenzene-D5	16.22	15.72	16.72	16.09	-0.82
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.28	-0.76

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9095.D
Date : 12-DEC-2002 11:49
Client ID:
Sample Info: VSTD020Q12A
Purge Volume: 5000.0
Column phase: RTX-624

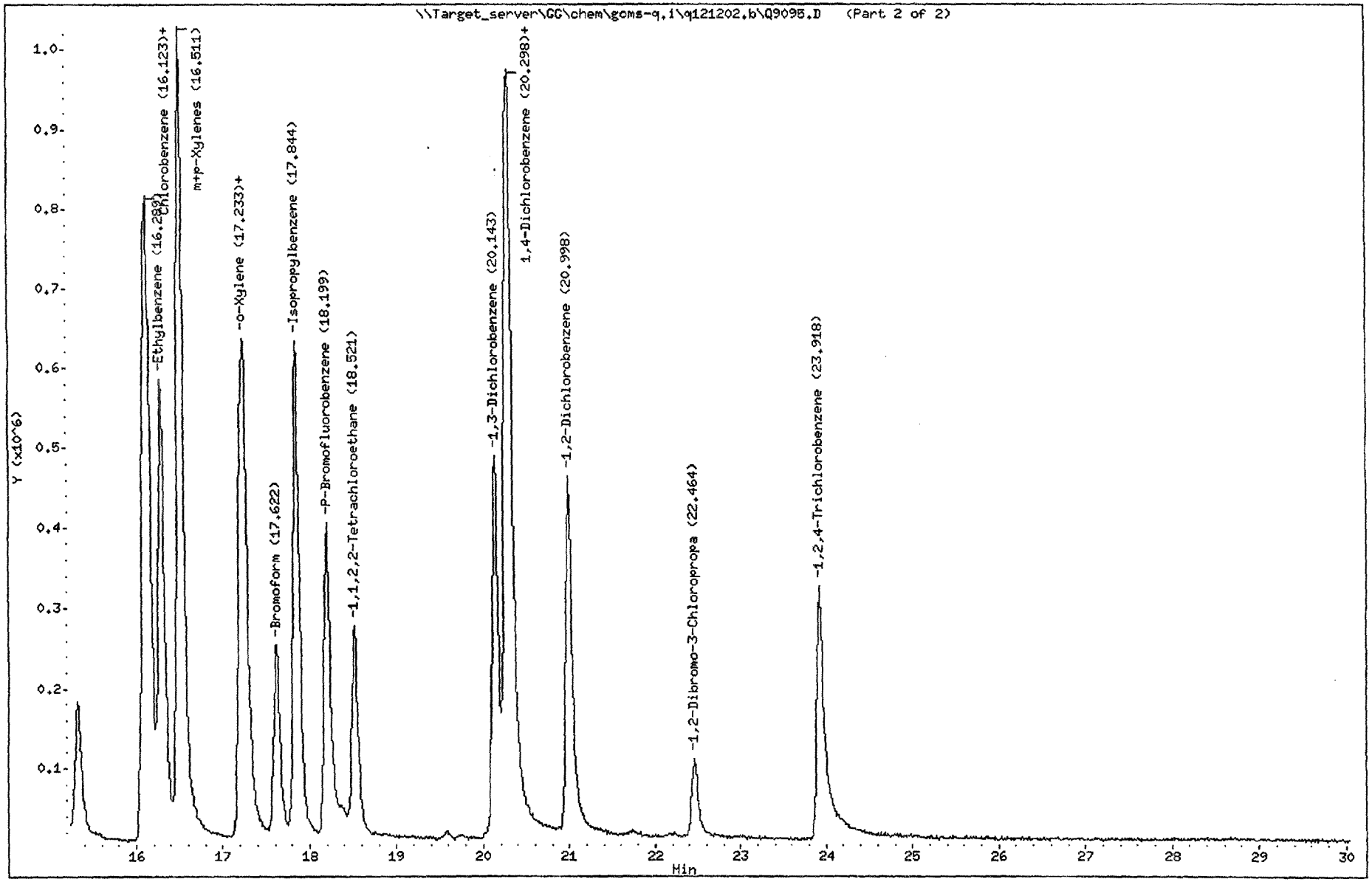
Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000024

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9095.D
Date : 12-DEC-2002 11:49
Client ID:
Sample Info: VSTD020Q12A
Purge Volume: 5000.0
Column phase: RTX-624

Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000025

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9096.D
Lab Smp Id: VSTD010Q12A
Inj Date : 12-DEC-2002 12:26
Operator : JEY Inst ID: gcms-q.i
Smp Info : VSTD010Q12A
Misc Info : 5970-Q;
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 12:26 Cal File: Q9096.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
1 Dichlorodifluoromethane	85	2.725	2.707	(0.271)	197827	10.0000	10.4
2 Chloromethane	50	3.058	3.074	(0.305)	100758	10.0000	9.4(M)
3 Vinyl chloride	62	3.225	3.196	(0.321)	87355	10.0000	10.2
4 Bromomethane	94	3.824	3.785	(0.381)	44805	10.0000	8.5(M)
5 Chloroethane	64	4.002	3.962	(0.399)	64165	10.0000	10.4(M)
6 Trichlorofluoromethane	101	4.424	4.406	(0.441)	235908	10.0000	10.3
11 Freon-113	151	5.479	5.417	(0.546)	200147	10.0000	10.4
9 1,1-Dichloroethene	96	5.501	5.472	(0.548)	109228	10.0000	9.8
15 Acetone	58	5.845	5.761	(0.582)	20240	10.0000	13.1(aM)
10 Carbon Disulfide	76	5.912	5.861	(0.589)	241561	10.0000	8.2(M)
14 Methylene Chloride	84	6.634	6.594	(0.661)	179027	10.0000	10.6
17 trans-1,2-Dichloroethene	96	7.078	7.038	(0.705)	134106	10.0000	10
19 Methyl tert-butyl ether	73	7.078	7.027	(0.705)	293871	20.0000	18.9
20 Methyl Acetate	43	6.434	6.383	(0.641)	38674	10.0000	7.8(M)
27 1,1-Dichloroethane	63	7.978	7.926	(0.794)	194643	10.0000	10
31 cis-1,2-Dichloroethene	96	9.066	9.026	(0.903)	126965	10.0000	9.9
42 2-Butanone	72	9.144	9.115	(0.910)	23395	10.0000	12.5(aM)
36 Chloroform	83	9.632	9.604	(0.959)	250414	10.0000	10.3
40 1,1,1-Trichloroethane	97	9.866	9.837	(0.982)	231634	10.0000	10.2
37 Carbon Tetrachloride	117	10.065	10.059	(0.894)	302544	10.0000	6.0(M)
43 Benzene	78	10.510	10.470	(0.934)	324080	10.0000	9.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
45	Cyclohexane	56	9.832	9.804	(0.979)	166244	10.0000	10.4 (T)
50	1,2-Dichloroethane	62	10.687	10.637	(0.950)	130198	10.0000	9.3 (M)
51	Trichloroethene	95	11.642	11.614	(1.035)	148039	10.0000	10.1
52	Methylcyclohexane	83	11.842	11.814	(1.052)	190436	10.0000	10.0
55	1,2-Dichloropropane	63	12.098	12.069	(1.075)	100888	10.0000	8.0
56	Bromodichloromethane	83	12.564	12.536	(1.116)	198066	10.0000	7.1
57	cis-1,3-dichloropropene	75	13.342	13.313	(1.186)	160679	10.0000	9.4
62	Toluene	92	13.830	13.790	(1.229)	254453	10.0000	9.9
65	trans-1,3-Dichloropropene	75	14.341	14.312	(1.274)	125044	10.0000	9.2
66	1,1,2-Trichloroethane	83	14.641	14.612	(1.301)	79310	10.0000	9.0
64	Tetrachloroethene	164	14.719	14.690	(0.906)	170425	10.0000	6.3
70	2-Hexanone	43	15.052	15.012	(0.926)	92044	10.0000	10.1 (aM)
67	Dibromochloromethane	129	15.274	15.245	(0.940)	176915	10.0000	8.1
69	1,2-Dibromoethane	107	15.485	15.456	(1.376)	146812	10.0000	8.9
72	Chlorobenzene	112	16.307	16.267	(1.003)	320357	10.0000	7.6
73	Ethylbenzene	91	16.451	16.422	(1.012)	475161	10.0000	9.8
76	m+p-Xylenes	106	16.673	16.633	(1.026)	354752	20.0000	19.4 (M)
77	o-Xylene	106	17.373	17.344	(1.069)	185223	10.0000	9.8
78	Styrene	104	17.417	17.389	(1.072)	239908	10.0000	9.6
79	Bromoform	173	17.784	17.744	(1.094)	128405	10.0000	8.3
80	Isopropylbenzene	105	18.006	17.977	(0.881)	540508	10.0000	8.0
87	1,1,2,2-Tetrachloroethane	83	18.683	18.654	(0.914)	143730	10.0000	8.9
96	1,3-Dichlorobenzene	146	20.316	20.287	(0.993)	271630	10.0000	9.7
98	1,4-Dichlorobenzene	146	20.493	20.465	(1.002)	341091	10.0000	7.4 (M)
101	1,2-Dichlorobenzene	146	21.171	21.153	(1.035)	256528	10.0000	9.6
102	1,2-Dibromo-3-Chloropropane	75	22.648	22.619	(1.108)	23709	10.0000	7.9
105	1,2,4-Trichlorobenzene	180	24.125	24.096	(1.180)	183485	10.0000	8.9 (M)
$ 39	Dibromofluoromethane	113	9.932	9.893	(0.989)	198564	10.0000	10.2
$ 47	1,2-Dichloroethane-D4	65	10.554	10.503	(1.051)	106956	10.0000	10.2 (M)
$ 60	Toluene-D8	98	13.719	13.679	(1.219)	334165	10.0000	9.8
$ 81	P-Bromofluorobenzene	95	18.372	18.333	(1.633)	205480	10.0000	9.3
* 44	Pentafluorobenzene	168	10.043	10.015	(1.000)	1503880	50.0000	
* 53	1,4-Difluorobenzene	114	11.254	11.236	(1.000)	1446814	50.0000	(T)
* 71	Chlorobenzene-D5	117	16.251	16.222	(1.000)	1096518	50.0000	
* 97	1,4-Dichlorobenzene-D4	152	20.449	20.431	(1.000)	627413	50.0000	

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9096.D
Lab Smp Id: VSTD010Q12A
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: 5970-Q;

Calibration Date: 12-DEC-2002
Calibration Time: 15:27

Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

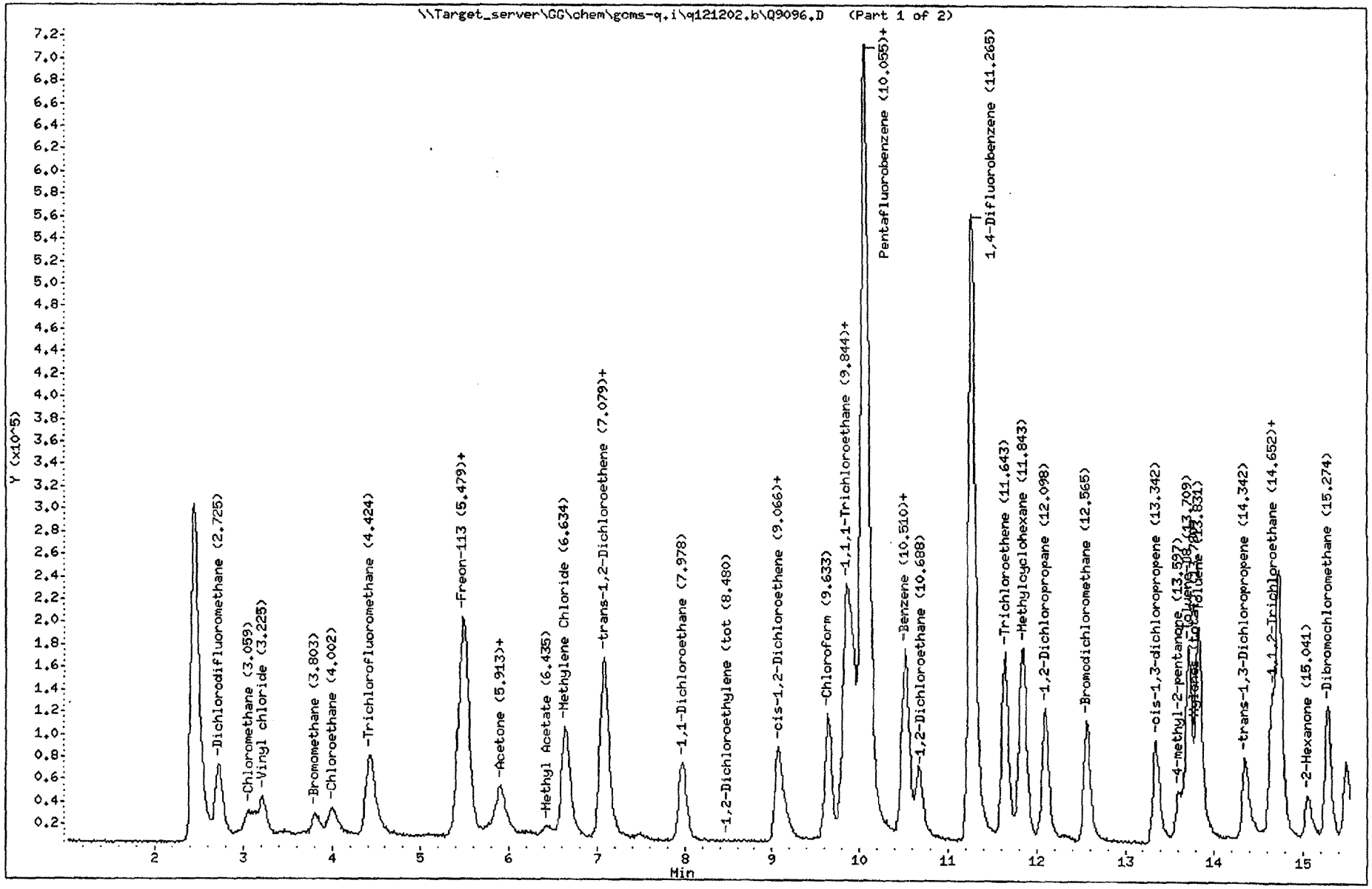
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1503880	-8.78
53 1,4-Difluorobenze	1518626	759313	3037252	1446814	-4.73
71 Chlorobenzene-D5	1159829	579915	2319658	1096518	-5.46
97 1,4-Dichlorobenze	670602	335301	1341204	627413	-6.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.04	0.29
53 1,4-Difluorobenze	11.24	10.74	11.74	11.25	0.16
71 Chlorobenzene-D5	16.22	15.72	16.72	16.25	0.18
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.45	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9096.D
Date : 12-DEC-2002 12:26
Client ID:
Sample Info: VSTD010Q12A
Purge Volume: 5000.0
Column phase: RTX-624

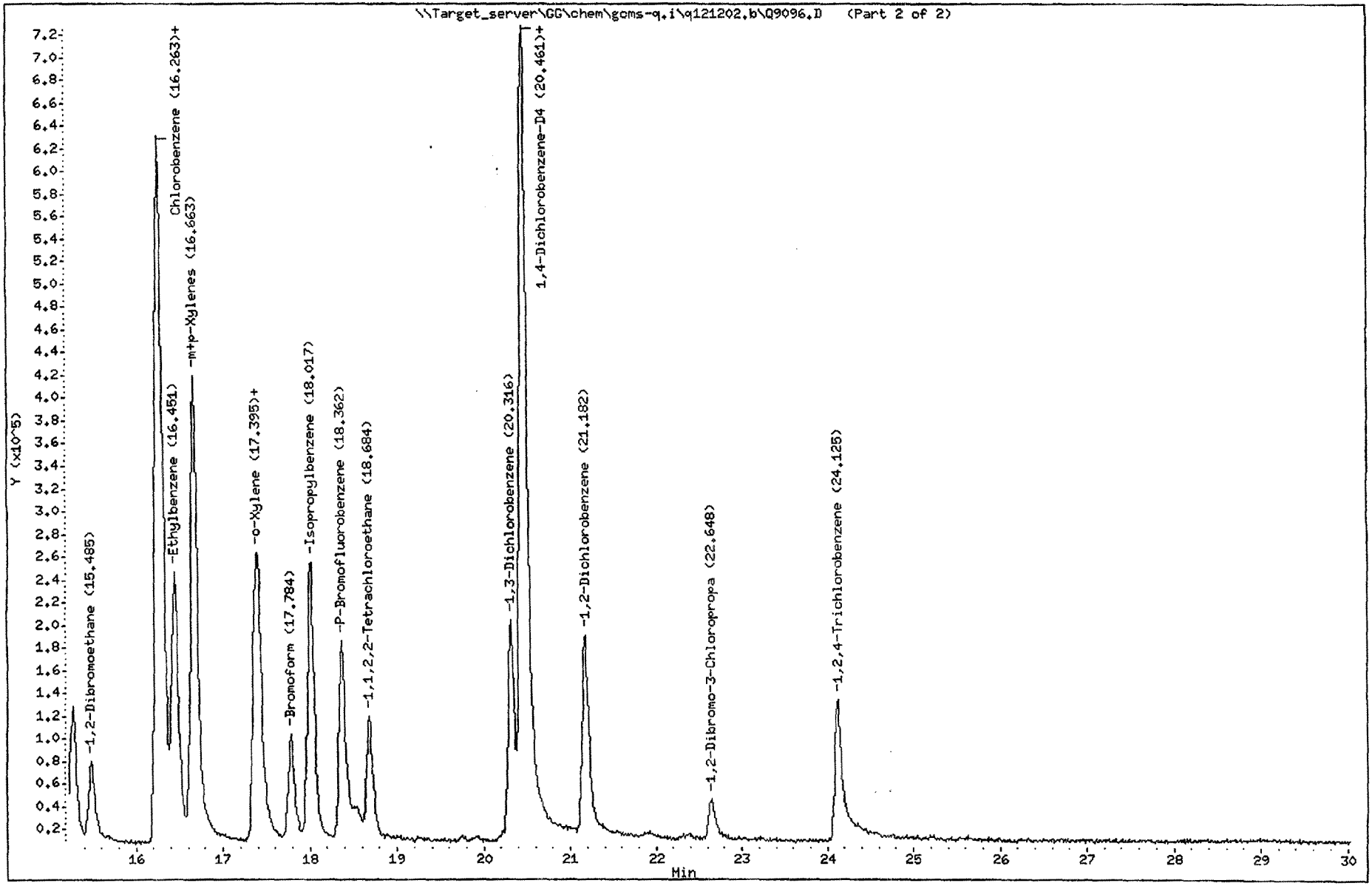
Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000029

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9096.D
Date : 12-DEC-2002 12:26
Client ID:
Sample Info: VSTD010Q12A
Purge Volume: 5000.0
Column phase: RTX-624

Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000030

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9097.D
Lab Smp Id: VSTD005Q12A
Inj Date : 12-DEC-2002 13:04
Operator : JEY Inst ID: gcms-q.i
Smp Info : VSTD005Q12A
Misc Info : 5970-Q;
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 13:04 Cal File: Q9097.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
1 Dichlorodifluoromethane	85	2.725	2.707	(0.272)	96319	5.00000	5.5
2 Chloromethane	50	3.081	3.074	(0.307)	53641	5.00000	3.3(aM)
3 Vinyl chloride	62	3.225	3.196	(0.322)	41594	5.00000	5.2
4 Bromomethane	94	3.825	3.785	(0.381)	22092	5.00000	4.1(aM)
5 Chloroethane	64	3.991	3.962	(0.398)	33095	5.00000	5.8
6 Trichlorofluoromethane	101	4.425	4.406	(0.441)	107642	5.00000	5.1(M)
11 Freon-113	151	5.446	5.417	(0.543)	97111	5.00000	5.4
9 1,1-Dichloroethene	96	5.502	5.472	(0.548)	57195	5.00000	5.6(M)
15 Acetone	58	5.779	5.761	(0.576)	14150	5.00000	9.8(aM)
10 Carbon Disulfide	76	5.890	5.861	(0.587)	109909	5.00000	2.7(aM)
14 Methylene Chloride	84	6.623	6.594	(0.660)	98050	5.00000	2.6(aM)
17 trans-1,2-Dichloroethene	96	7.079	7.038	(0.706)	63930	5.00000	5.1
19 Methyl tert-butyl ether	73	7.057	7.027	(0.703)	149885	10.0000	10.4
20 Methyl Acetate	43	6.401	6.383	(0.638)	32021	5.00000	7.0(M)
27 1,1-Dichloroethane	63	7.956	7.926	(0.793)	98157	5.00000	5.4
31 cis-1,2-Dichloroethene	96	9.044	9.026	(0.901)	60208	5.00000	5.1(M)
42 2-Butanone	72	9.155	9.115	(0.913)	14513	5.00000	8.3(aM)
36 Chloroform	83	9.622	9.604	(0.959)	127486	5.00000	5.7
40 1,1,1-Trichloroethane	97	9.855	9.837	(0.982)	110478	5.00000	5.2
37 Carbon Tetrachloride	117	10.055	10.059	(0.893)	196866	5.00000	1.5(aM)
43 Benzene	78	10.488	10.470	(0.932)	163903	5.00000	5.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
45	Cyclohexane	56	9.822	9.804	(0.979)	80952	5.00000	5.5
50	1,2-Dichloroethane	62	10.666	10.637	(0.948)	65250	5.00000	5.4
51	Trichloroethene	95	11.621	11.614	(1.033)	68947	5.00000	5.4
52	Methylcyclohexane	83	11.843	11.814	(1.052)	93810	5.00000	5.7
55	1,2-Dichloropropane	63	12.076	12.069	(1.073)	49597	5.00000	3.5(a)
56	Bromodichloromethane	83	12.554	12.536	(1.115)	95690	5.00000	2.5(a)
57	cis-1,3-dichloropropene	75	13.331	13.313	(1.185)	67501	5.00000	4.6(a)
62	Toluene	92	13.809	13.790	(1.227)	121606	5.00000	5.4
65	trans-1,3-Dichloropropene	75	14.319	14.312	(1.272)	51134	5.00000	4.3(a)
66	1,1,2-Trichloroethane	83	14.630	14.612	(1.300)	41674	5.00000	5.5
64	Tetrachloroethene	164	14.719	14.690	(0.906)	81581	5.00000	1.4(a)
70	2-Hexanone	43	15.041	15.012	(0.926)	47015	5.00000	6.2(a)
67	Dibromochloromethane	129	15.252	15.245	(0.939)	86922	5.00000	4.5(a)
69	1,2-Dibromoethane	107	15.463	15.456	(1.374)	74118	5.00000	5.2
72	Chlorobenzene	112	16.296	16.267	(1.003)	157618	5.00000	2.9(a)
73	Ethylbenzene	91	16.429	16.422	(1.012)	234017	5.00000	5.8
76	m+p-Xylenes	106	16.651	16.633	(1.025)	165631	10.0000	10.9(M)
77	o-Xylene	106	17.351	17.344	(1.068)	87435	5.00000	5.6
78	Styrene	104	17.407	17.389	(1.072)	105620	5.00000	5.1
79	Bromoform	173	17.773	17.744	(1.094)	58864	5.00000	4.8(a)
80	Isopropylbenzene	105	17.995	17.977	(0.880)	262915	5.00000	3.9(a)
87	1,1,2,2-Tetrachloroethane	83	18.662	18.654	(0.913)	78401	5.00000	6.0
96	1,3-Dichlorobenzene	146	20.294	20.287	(0.993)	133018	5.00000	5.9
98	1,4-Dichlorobenzene	146	20.483	20.465	(1.002)	162185	5.00000	2.2(aM)
101	1,2-Dichlorobenzene	146	21.160	21.153	(1.035)	122630	5.00000	5.7
102	1,2-Dibromo-3-Chloropropane	75	22.615	22.619	(1.106)	11680	5.00000	4.8(a)
105	1,2,4-Trichlorobenzene	180	24.103	24.096	(1.179)	85021	5.00000	4.6(aM)
$ 39	Dibromofluoromethane	113	9.911	9.893	(0.988)	96467	5.00000	5.4
$ 47	1,2-Dichloroethane-D4	65	10.544	10.503	(1.051)	52633	5.00000	5.6(M)
$ 60	Toluene-D8	98	13.697	13.679	(1.217)	163380	5.00000	5.5
$ 81	P-Bromofluorobenzene	95	18.339	18.333	(1.630)	102322	5.00000	4.8(a)
* 44	Pentafluorobenzene	168	10.033	10.015	(1.000)	1396125	50.0000	
* 53	1,4-Difluorobenzene	114	11.254	11.236	(1.000)	1251360	50.0000	
* 71	Chlorobenzene-D5	117	16.241	16.222	(1.000)	911415	50.0000	
* 97	1,4-Dichlorobenzene-D4	152	20.438	20.431	(1.000)	504833	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9097.D
Lab Smp Id: VSTD005Q12A
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: 5970-Q;

Calibration Date: 12-DEC-2002
Calibration Time: 15:27

Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

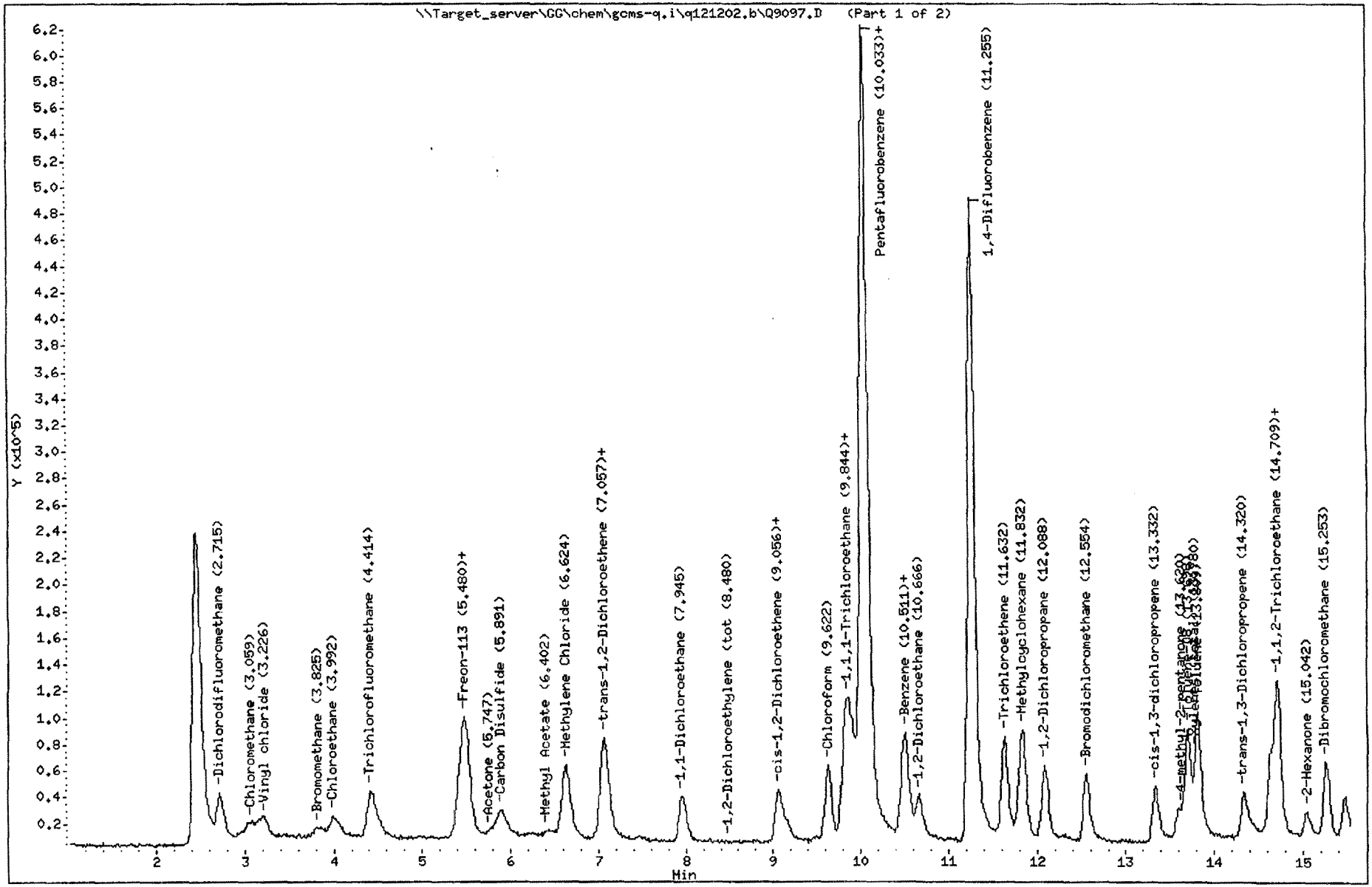
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1396125	-15.32
53 1,4-Difluorobenze	1518626	759313	3037252	1251360	-17.60
71 Chlorobenzene-D5	1159829	579915	2319658	911415	-21.42
97 1,4-Dichlorobenze	670602	335301	1341204	504833	-24.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.03	0.19
53 1,4-Difluorobenze	11.24	10.74	11.74	11.25	0.17
71 Chlorobenzene-D5	16.22	15.72	16.72	16.24	0.11
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.44	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9097.D
Date : 12-DEC-2002 13:04
Client ID:
Sample Info: VSTD005Q12A
Purge Volume: 5000.0
Column phase: RTX-624

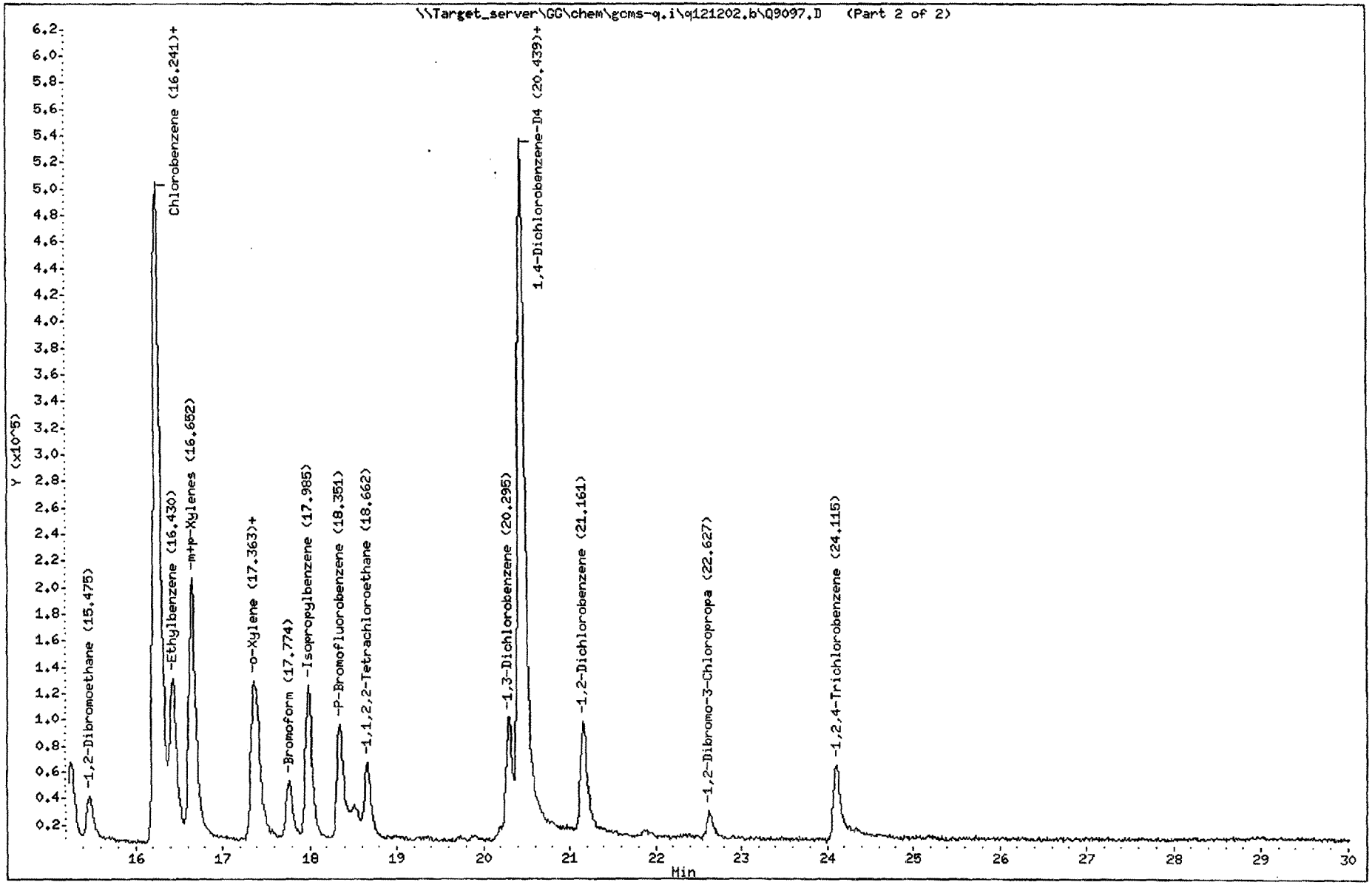
Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000034

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9097.D
Date : 12-DEC-2002 13:04
Client ID:
Sample Info: VSTD005Q12A
Purge Volume: 5000.0
Column phase: RTX-624

Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000035

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9098.D
Lab Smp Id: VSTD100Q12A
Inj Date : 12-DEC-2002 13:41
Operator : JEY Inst ID: gcms-q.i
Smp Info : VSTD100Q12A
Misc Info : 5970-Q;
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 13:41 Cal File: Q9098.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
1 Dichlorodifluoromethane	85	2.719	2.707	(0.270)	3406501	200.000	185
2 Chloromethane	50	3.074	3.074	(0.305)	1403889	200.000	202(A)
3 Vinyl chloride	62	3.207	3.196	(0.319)	1576503	200.000	190
4 Bromomethane	94	3.785	3.785	(0.376)	899907	200.000	192
5 Chloroethane	64	3.973	3.962	(0.395)	1016523	200.000	169
6 Trichlorofluoromethane	101	4.418	4.406	(0.439)	4161248	200.000	188
11 Freon-113	151	5.461	5.417	(0.542)	3277499	200.000	175
9 1,1-Dichloroethene	96	5.506	5.472	(0.547)	1844212	200.000	172
15 Acetone	58	5.795	5.761	(0.575)	233399	200.000	156
10 Carbon Disulfide	76	5.895	5.861	(0.585)	4491721	200.000	201(A)
14 Methylene Chloride	84	6.628	6.594	(0.658)	1865276	200.000	201(A)
17 trans-1,2-Dichloroethene	96	7.083	7.038	(0.703)	2295497	200.000	176
19 Methyl tert-butyl ether	73	7.083	7.027	(0.703)	5687637	400.000	378(A)
20 Methyl Acetate	43	6.428	6.383	(0.638)	1013682	200.000	212(A)
27 1,1-Dichloroethane	63	7.982	7.926	(0.793)	3363854	200.000	178
31 cis-1,2-Dichloroethene	96	9.082	9.026	(0.902)	2236689	200.000	181
42 2-Butanone	72	9.160	9.115	(0.910)	332557	200.000	183
36 Chloroform	83	9.659	9.604	(0.959)	4029681	200.000	172
40 1,1,1-Trichloroethane	97	9.881	9.837	(0.981)	3768306	200.000	171
37 Carbon Tetrachloride	117	10.104	10.059	(0.895)	3438781	200.000	198(M)
43 Benzene	78	10.526	10.470	(0.932)	5530574	200.000	169

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
45	Cyclohexane	56	9.848	9.804	(0.978)	2731159	200.000	177
50	1,2-Dichloroethane	62	10.703	10.637	(0.948)	2461903	200.000	181
51	Trichloroethene	95	11.669	11.614	(1.033)	2431074	200.000	170
52	Methylcyclohexane	83	11.869	11.814	(1.051)	3180085	200.000	172
55	1,2-Dichloropropane	63	12.125	12.069	(1.074)	1781555	200.000	201(A)
56	Bromodichloromethane	83	12.591	12.536	(1.115)	3744958	200.000	200
57	cis-1,3-dichloropropene	75	13.368	13.313	(1.184)	3215785	200.000	194
63	4-methyl-2-pentanone	43	13.635	13.579	(1.208)	2141359	200.000	216(A)
62	Toluene	92	13.846	13.790	(1.226)	4239916	200.000	169
65	trans-1,3-Dichloropropene	75	14.368	14.312	(1.272)	2745319	200.000	207(A)
66	1,1,2-Trichloroethane	83	14.668	14.612	(1.299)	1570446	200.000	183
64	Tetrachloroethene	164	14.746	14.690	(0.906)	2892875	200.000	198
70	2-Hexanone	43	15.068	15.012	(0.926)	1928834	200.000	217(A)
67	Dibromochloromethane	129	15.290	15.245	(0.940)	3753179	200.000	201(A)
69	1,2-Dibromoethane	107	15.501	15.456	(1.373)	3023102	200.000	189
72	Chlorobenzene	112	16.322	16.267	(1.003)	5589767	200.000	200(A)
73	Ethylbenzene	91	16.456	16.422	(1.012)	8387862	200.000	177
76	m+p-Xylenes	106	16.678	16.633	(1.025)	5939804	400.000	333(M)
77	o-Xylene	106	17.377	17.344	(1.068)	3227149	200.000	174
78	Styrene	104	17.422	17.389	(1.071)	4492416	200.000	183
79	Bromoform	173	17.788	17.744	(1.094)	3098398	200.000	201(A)
80	Isopropylbenzene	105	18.010	17.977	(0.881)	9539588	200.000	201(A)
87	1,1,2,2-Tetrachloroethane	83	18.677	18.654	(0.913)	3005133	200.000	184
96	1,3-Dichlorobenzene	146	20.320	20.287	(0.993)	4995669	200.000	175
98	1,4-Dichlorobenzene	146	20.498	20.465	(1.002)	5461296	200.000	198(M)
101	1,2-Dichlorobenzene	146	21.175	21.153	(1.035)	4789937	200.000	176
102	1,2-Dibromo-3-Chloropropane	75	22.641	22.619	(1.107)	701468	200.000	229(A)
105	1,2,4-Trichlorobenzene	180	24.107	24.096	(1.179)	3519753	200.000	201(A)
$ 39	Dibromofluoromethane	113	9.948	9.893	(0.988)	3515711	200.000	187
$ 47	1,2-Dichloroethane-D4	65	10.570	10.503	(1.050)	2155418	200.000	201(A)
$ 60	Toluene-D8	98	13.735	13.679	(1.216)	6272416	200.000	189
$ 81	P-Bromofluorobenzene	95	18.366	18.333	(1.626)	3887423	200.000	200(A)
* 44	Pentafluorobenzene	168	10.070	10.015	(1.000)	1457384	50.0000	
* 53	1,4-Difluorobenzene	114	11.292	11.236	(1.000)	1410492	50.0000	
* 71	Chlorobenzene-D5	117	16.267	16.222	(1.000)	1072300	50.0000	
* 97	1,4-Dichlorobenzene-D4	152	20.454	20.431	(1.000)	636700	50.0000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9098.D
Lab Smp Id: VSTD100Q12A
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: 5970-Q;

Calibration Date: 12-DEC-2002
Calibration Time: 15:27
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

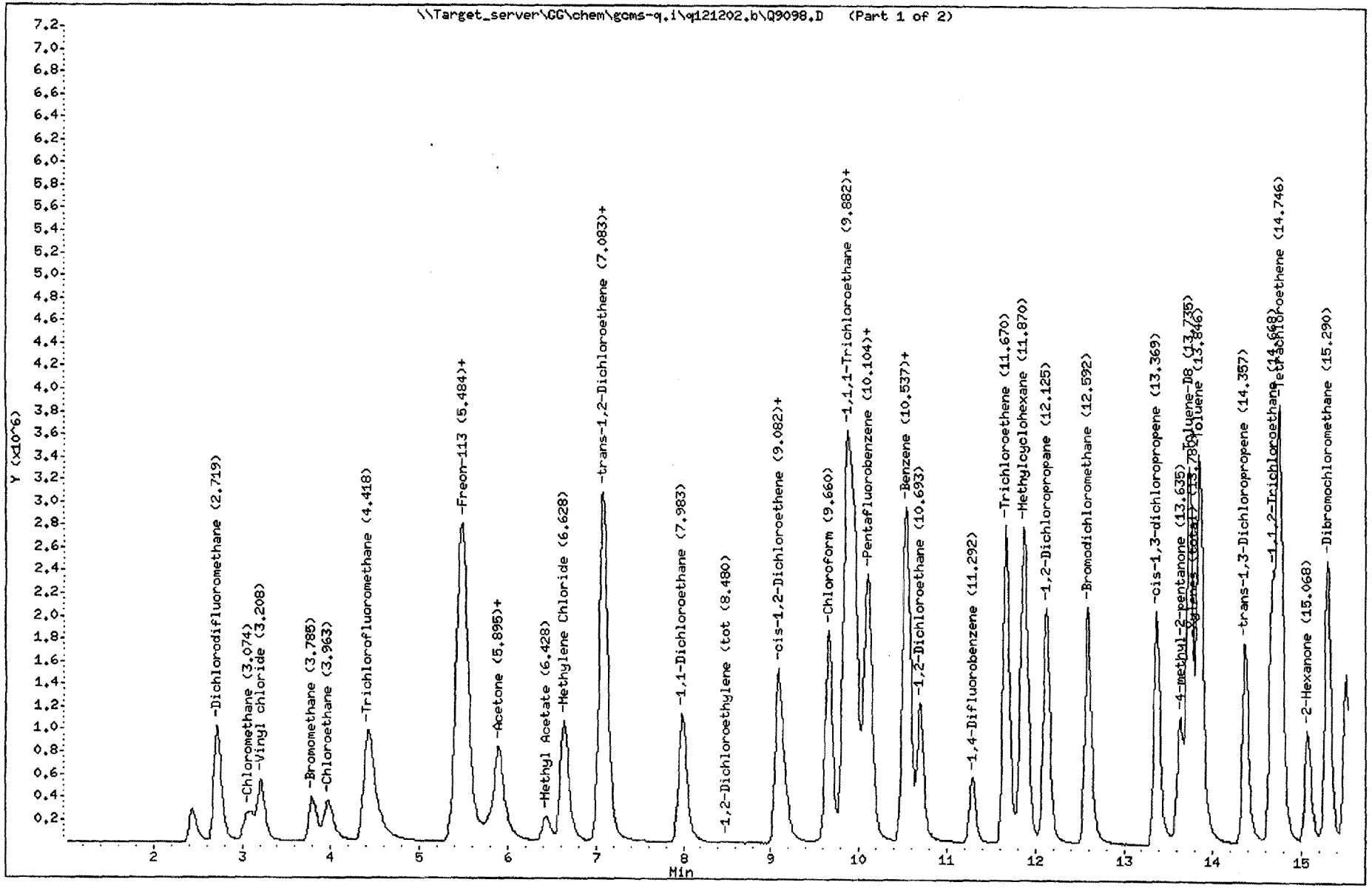
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1457384	-11.60
53 1,4-Difluorobenze	1518626	759313	3037252	1410492	-7.12
71 Chlorobenzene-D5	1159829	579915	2319658	1072300	-7.55
97 1,4-Dichlorobenze	670602	335301	1341204	636700	-5.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.07	0.56
53 1,4-Difluorobenze	11.24	10.74	11.74	11.29	0.50
71 Chlorobenzene-D5	16.22	15.72	16.72	16.27	0.28
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.45	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9098.D
Date : 12-DEC-2002 13:41
Client ID:
Sample Info: VSTD100Q12A
Purge Volume: 5000.0
Column phase: RTX-624

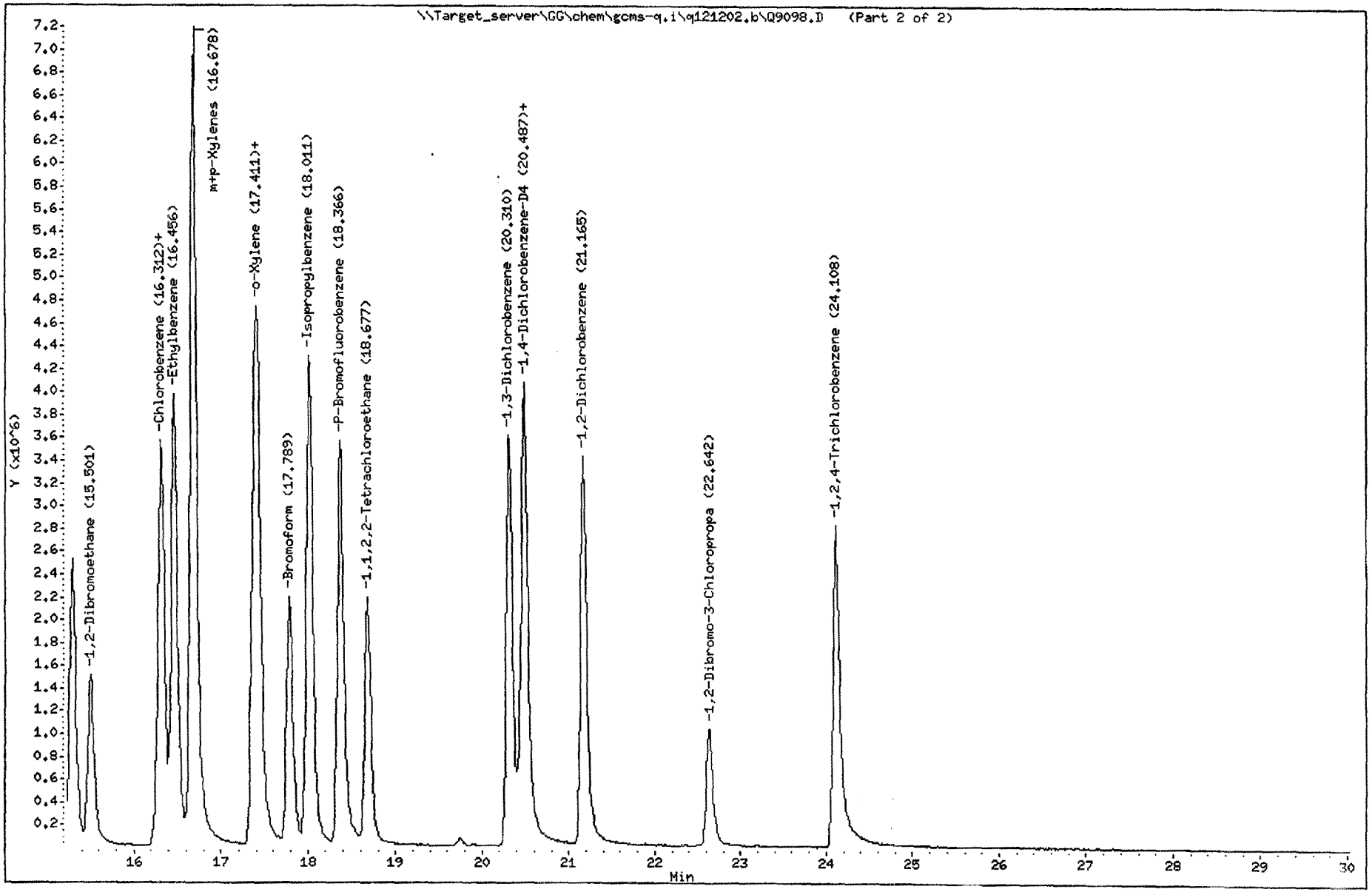
Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000039

Data File: \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9098.D
Date : 12-DEC-2002 13:41
Client ID:
Sample Info: VSTD100Q12A
Purge Volume: 5000.0
Column phase: RTX-624

Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000040

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9099.D
Lab Smp Id: VSTD200Q12A
Inj Date : 12-DEC-2002 14:18
Operator : JEY Inst ID: gcms-q.i
Smp Info : VSTD200Q12A
Misc Info : 5970-Q;
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 14:18 Cal File: Q9099.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	ON-COL (ug/kg)
1 Dichlorodifluoromethane	85	2.729	2.707	(0.272)	1713905	100.000	86.0
2 Chloromethane	50	3.084	3.074	(0.307)	727433	100.000	94.0
3 Vinyl chloride	62	3.217	3.196	(0.320)	802566	100.000	89.3
4 Bromomethane	94	3.806	3.785	(0.379)	572121	100.000	112
5 Chloroethane	64	3.995	3.962	(0.398)	559080	100.000	86.0
6 Trichlorofluoromethane	101	4.417	4.406	(0.440)	2156000	100.000	89.8
11 Freon-113	151	5.450	5.417	(0.542)	1730247	100.000	85.3
9 1,1-Dichloroethene	96	5.505	5.472	(0.548)	975240	100.000	83.7
15 Acetone	58	5.772	5.761	(0.574)	113863	100.000	70.0
10 Carbon Disulfide	76	5.883	5.861	(0.586)	2286338	100.000	94.0
14 Methylene Chloride	84	6.604	6.594	(0.657)	996834	100.000	94.7
17 trans-1,2-Dichloroethene	96	7.060	7.038	(0.703)	1197803	100.000	84.8
19 Methyl tert-butyl ether	73	7.060	7.027	(0.703)	2948157	200.000	181
20 Methyl Acetate	43	6.405	6.383	(0.637)	482492	100.000	93.0
27 1,1-Dichloroethane	63	7.948	7.926	(0.791)	1732091	100.000	84.6
31 cis-1,2-Dichloroethene	96	9.059	9.026	(0.902)	1152674	100.000	85.9
42 2-Butanone	72	9.125	9.115	(0.908)	158578	100.000	80.5
36 Chloroform	83	9.625	9.604	(0.958)	2076639	100.000	81.6
40 1,1,1-Trichloroethane	97	9.858	9.837	(0.981)	2010177	100.000	84.2
37 Carbon Tetrachloride	117	10.080	10.059	(0.895)	1891293	100.000	99.0(M)
43 Benzene	78	10.502	10.470	(0.932)	2871229	100.000	84.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
	45 Cyclohexane	56	9.825	9.804	(0.978)	1414906	100.000	84.7
	50 1,2-Dichloroethane	62	10.669	10.637	(0.947)	1270224	100.000	89.7
	51 Trichloroethene	95	11.646	11.614	(1.034)	1252791	100.000	84.1
	52 Methylcyclohexane	83	11.857	11.814	(1.052)	1626599	100.000	84.4
	55 1,2-Dichloropropane	63	12.113	12.069	(1.075)	905530	100.000	93.5
	56 Bromodichloromethane	83	12.590	12.536	(1.117)	1887040	100.000	95.0
	57 cis-1,3-dichloropropene	75	13.368	13.313	(1.186)	1585759	100.000	92.0
	63 4-methyl-2-pentanone	43	13.634	13.579	(1.210)	1059369	100.000	102
	62 Toluene	92	13.856	13.790	(1.230)	2182983	100.000	83.6
	65 trans-1,3-Dichloropropene	75	14.367	14.312	(1.275)	1305185	100.000	94.6
	66 1,1,2-Trichloroethane	83	14.678	14.612	(1.303)	795305	100.000	89.2
	64 Tetrachloroethene	164	14.756	14.690	(0.905)	1504898	100.000	95.3
	70 2-Hexanone	43	15.078	15.012	(0.925)	915043	100.000	97.7
	67 Dibromochloromethane	129	15.311	15.245	(0.939)	1911767	100.000	93.2
	69 1,2-Dibromoethane	107	15.522	15.456	(1.377)	1535468	100.000	92.2
	72 Chlorobenzene	112	16.344	16.267	(1.003)	2805986	100.000	93.5
	73 Ethylbenzene	91	16.499	16.422	(1.012)	4242056	100.000	85.2
	76 m+p-Xylenes	106	16.710	16.633	(1.025)	3167220	200.000	169 (M)
	77 o-Xylene	106	17.421	17.344	(1.069)	1643513	100.000	84.3
	78 Styrene	104	17.477	17.389	(1.072)	2267875	100.000	88.0
	79 Bromoform	173	17.832	17.744	(1.094)	1541907	100.000	93.3
	80 Isopropylbenzene	105	18.065	17.977	(0.880)	4814073	100.000	92.4
	87 1,1,2,2-Tetrachloroethane	83	18.731	18.654	(0.913)	1483891	100.000	89.1
	96 1,3-Dichlorobenzene	146	20.375	20.287	(0.993)	2420443	100.000	83.5 (M)
	98 1,4-Dichlorobenzene	146	20.553	20.465	(1.002)	2785476	100.000	96.6 (M)
	101 1,2-Dichlorobenzene	146	21.241	21.153	(1.035)	2367376	100.000	85.4
	102 1,2-Dibromo-3-Chloropropane	75	22.718	22.619	(1.107)	313655	100.000	101
	105 1,2,4-Trichlorobenzene	180	24.184	24.096	(1.179)	1725117	100.000	93.2
$	39 Dibromofluoromethane	113	9.914	9.893	(0.987)	1901285	100.000	93.2
$	47 1,2-Dichloroethane-D4	65	10.536	10.503	(1.049)	1137947	100.000	98.2
$	60 Toluene-D8	98	13.734	13.679	(1.219)	3210606	100.000	92.9
$	81 P-Bromofluorobenzene	95	18.420	18.333	(1.635)	1951702	100.000	97.0
*	44 Pentafluorobenzene	168	10.047	10.015	(1.000)	1579678	50.0000	
*	53 1,4-Difluorobenzene	114	11.269	11.236	(1.000)	1466896	50.0000	
*	71 Chlorobenzene-D5	117	16.299	16.222	(1.000)	1128109	50.0000	
*	97 1,4-Dichlorobenzene-D4	152	20.519	20.431	(1.000)	648038	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9099.D
Lab Smp Id: VSTD200Q12A
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: 5970-Q;

Calibration Date: 12-DEC-2002
Calibration Time: 15:27
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

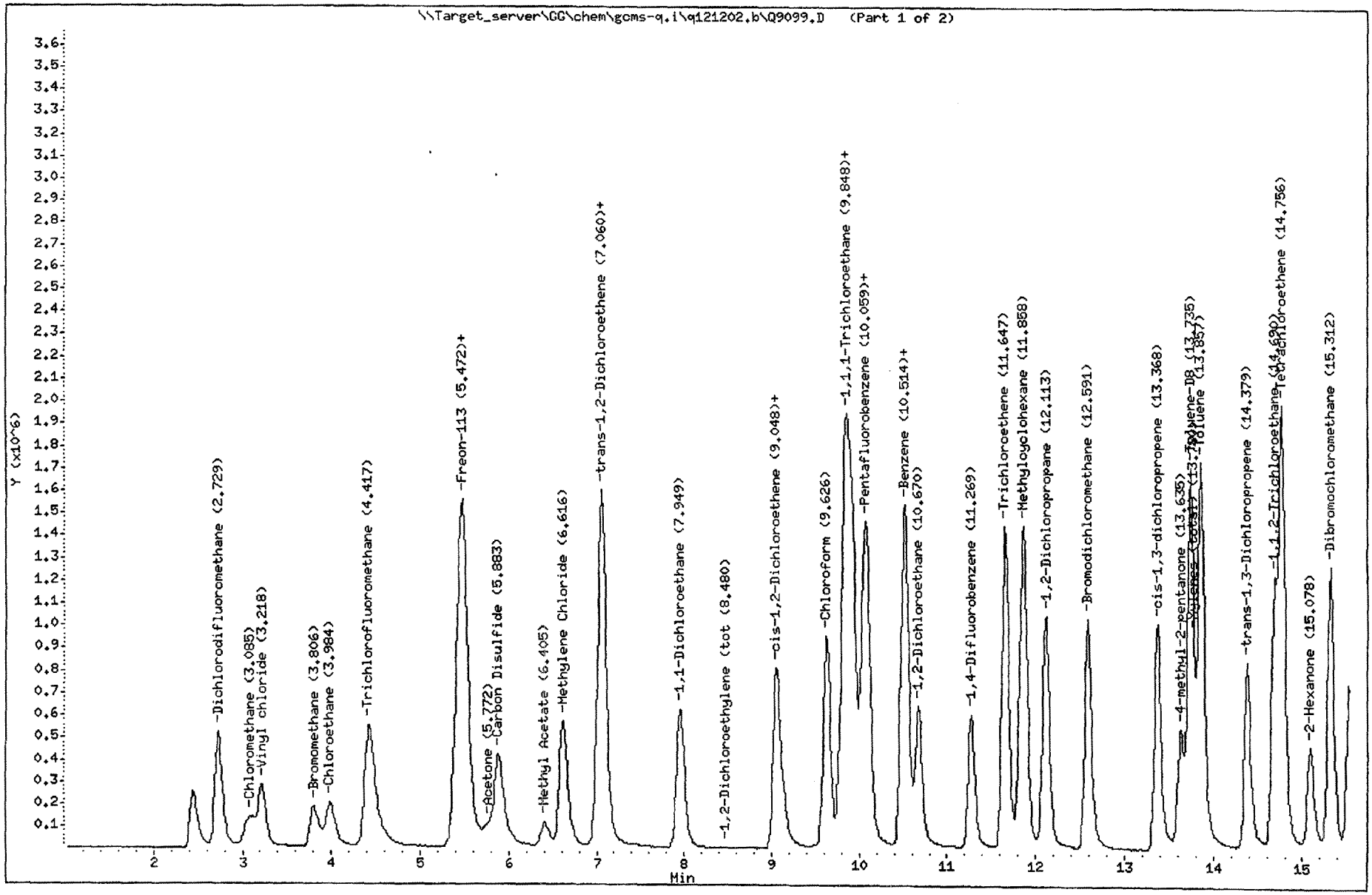
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1579678	-4.19
53 1,4-Difluorobenze	1518626	759313	3037252	1466896	-3.41
71 Chlorobenzene-D5	1159829	579915	2319658	1128109	-2.73
97 1,4-Dichlorobenze	670602	335301	1341204	648038	-3.36

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.05	0.33
53 1,4-Difluorobenze	11.24	10.74	11.74	11.27	0.29
71 Chlorobenzene-D5	16.22	15.72	16.72	16.30	0.48
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.52	0.43

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9099.D
Date : 12-DEC-2002 14:18
Client ID:
Sample Info: VSTD200Q12A
Purge Volume: 5000.0
Column phase: RTX-624

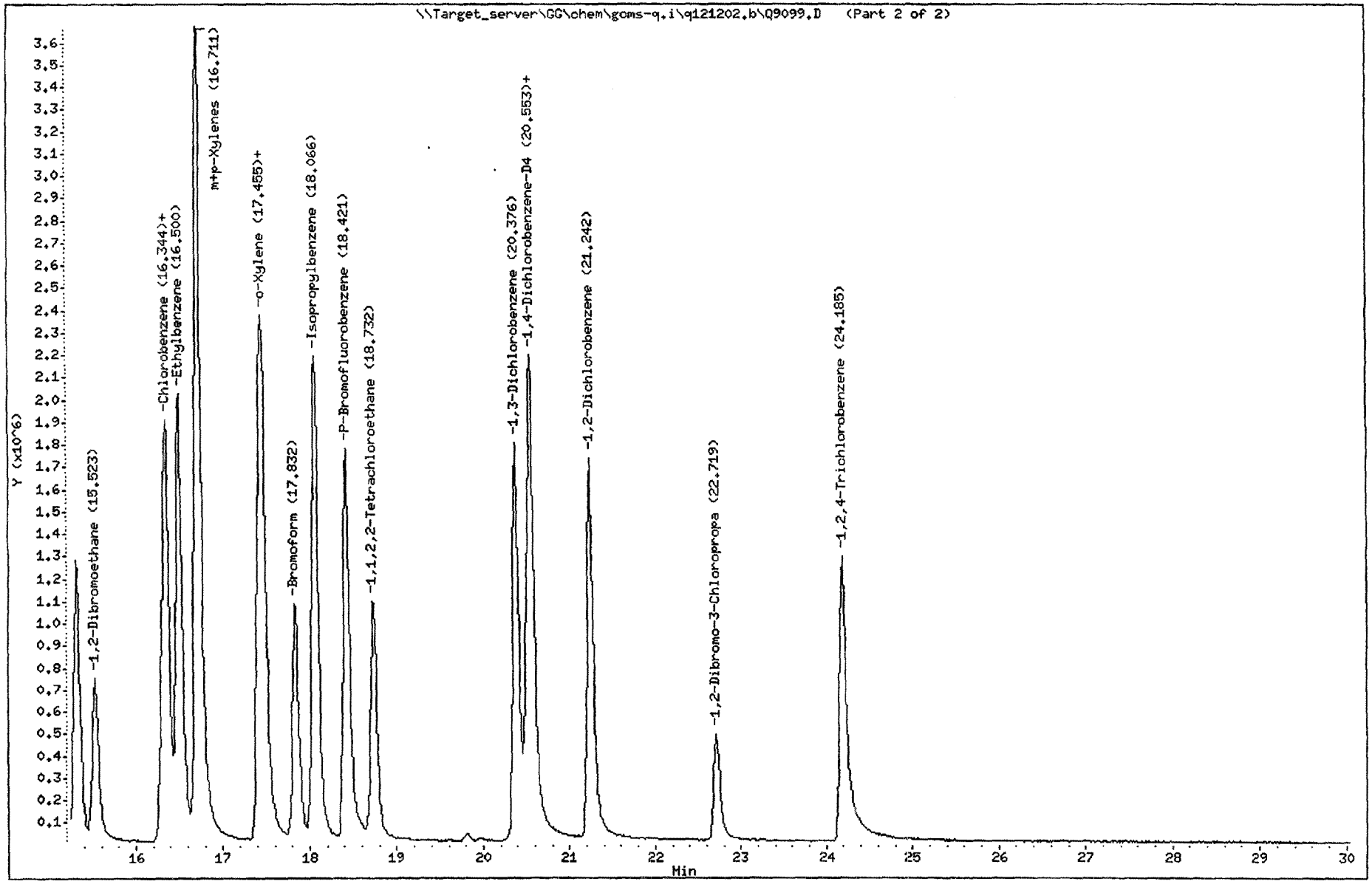
Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000044

Data File: \\Target_server\GC\chem\goms-q.i\q121202.b\Q9099.D
Date : 12-DEC-2002 14:18
Client ID:
Sample Info: VSTD200Q12A
Purge Volume: 5000.0
Column phase: RTX-624

Instrument: goms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000045

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9100.D
Lab Smp Id: VSTD050Q12B
Inj Date : 12-DEC-2002 15:27
Operator : JEY Inst ID: gcms-q.i
Smp Info : VSTD050Q12B
Misc Info : 5970-Q;
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 15:27 Cal File: Q9100.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
1 Dichlorodifluoromethane	85	2.707	2.707	(0.270)	982411	50.0000	47.2
2 Chloromethane	50	3.073	3.074	(0.307)	420799	50.0000	49.9(M)
3 Vinyl chloride	62	3.196	3.196	(0.319)	452933	50.0000	48.3
4 Bromomethane	94	3.784	3.785	(0.378)	288049	50.0000	53.8
5 Chloroethane	64	3.962	3.962	(0.396)	326493	50.0000	48.1
6 Trichlorofluoromethane	101	4.406	4.406	(0.440)	1231517	50.0000	49.1
11 Freon-113	151	5.417	5.417	(0.541)	1090905	50.0000	51.5
9 1,1-Dichloroethene	96	5.472	5.472	(0.546)	641533	50.0000	52.8
15 Acetone	58	5.761	5.761	(0.575)	89995	50.0000	53.0
10 Carbon Disulfide	76	5.861	5.861	(0.585)	1453759	50.0000	56.5
14 Methylene Chloride	84	6.594	6.594	(0.658)	620733	50.0000	52.9
17 trans-1,2-Dichloroethene	96	7.038	7.038	(0.703)	794371	50.0000	53.9
19 Methyl tert-butyl ether	73	7.027	7.027	(0.702)	1885415	100.000	111
20 Methyl Acetate	43	6.383	6.383	(0.637)	309886	50.0000	57.2
27 1,1-Dichloroethane	63	7.926	7.926	(0.792)	1101375	50.0000	51.6
31 cis-1,2-Dichloroethene	96	9.026	9.026	(0.901)	744363	50.0000	53.2
42 2-Butanone	72	9.115	9.115	(0.910)	120062	50.0000	58.4
36 Chloroform	83	9.603	9.604	(0.959)	1366286	50.0000	51.5
40 1,1,1-Trichloroethane	97	9.837	9.837	(0.982)	1339978	50.0000	53.8
37 Carbon Tetrachloride	117	10.059	10.059	(0.895)	1236062	50.0000	58.1(M)
43 Benzene	78	10.470	10.470	(0.932)	1891561	50.0000	53.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
45	Cyclohexane	56	9.803	9.804	(0.979)	915570	50.0000	52.5
50	1,2-Dichloroethane	62	10.636	10.637	(0.947)	806775	50.0000	55.0
51	Trichloroethene	95	11.613	11.614	(1.034)	831449	50.0000	53.9
52	Methylcyclohexane	83	11.813	11.814	(1.051)	1045598	50.0000	52.4
55	1,2-Dichloropropane	63	12.069	12.069	(1.074)	592073	50.0000	57.4
56	Bromodichloromethane	83	12.535	12.536	(1.116)	1241281	50.0000	59.1
57	cis-1,3-dichloropropene	75	13.312	13.313	(1.185)	1038108	50.0000	58.2
63	4-methyl-2-pentanone	43	13.579	13.579	(1.209)	753503	50.0000	70.5
62	Toluene	92	13.790	13.790	(1.227)	1484467	50.0000	54.9
65	trans-1,3-Dichloropropene	75	14.312	14.312	(1.274)	839159	50.0000	58.7
66	1,1,2-Trichloroethane	83	14.612	14.612	(1.300)	518818	50.0000	56.2
64	Tetrachloroethene	164	14.690	14.690	(0.906)	1042766	50.0000	62.5
70	2-Hexanone	43	15.012	15.012	(0.925)	698368	50.0000	72.5
67	Dibromochloromethane	129	15.245	15.245	(0.940)	1253447	50.0000	58.4
69	1,2-Dibromoethane	107	15.456	15.456	(1.376)	971008	50.0000	56.3
72	Chlorobenzene	112	16.266	16.267	(1.003)	1884188	50.0000	59.7
73	Ethylbenzene	91	16.422	16.422	(1.012)	2837118	50.0000	55.4
76	m+p-Xylenes	106	16.633	16.633	(1.025)	2124904	100.000	110 (M)
77	o-Xylene	106	17.344	17.344	(1.069)	1116041	50.0000	55.7
78	Styrene	104	17.388	17.389	(1.072)	1504421	50.0000	56.8
79	Bromoform	173	17.743	17.744	(1.094)	999306	50.0000	58.6
80	Isopropylbenzene	105	17.977	17.977	(0.880)	3284630	50.0000	58.8
87	1,1,2,2-Tetrachloroethane	83	18.654	18.654	(0.913)	955196	50.0000	55.4
96	1,3-Dichlorobenzene	146	20.287	20.287	(0.993)	1643198	50.0000	54.8
98	1,4-Dichlorobenzene	146	20.464	20.465	(1.002)	1889404	50.0000	61.5 (M)
101	1,2-Dichlorobenzene	146	21.153	21.153	(1.035)	1607159	50.0000	56.0
102	1,2-Dibromo-3-Chloropropane	75	22.619	22.619	(1.107)	183828	50.0000	57.1
105	1,2,4-Trichlorobenzene	180	24.096	24.096	(1.179)	1147976	50.0000	58.8
$ 39	Dibromofluoromethane	113	9.892	9.893	(0.988)	1084714	50.0000	51.0
$ 47	1,2-Dichloroethane-D4	65	10.503	10.503	(1.049)	590340	50.0000	49.0
$ 60	Toluene-D8	98	13.679	13.679	(1.217)	1873981	50.0000	52.4
$ 81	P-Bromofluorobenzene	95	18.332	18.333	(1.632)	1137476	50.0000	54.3
* 44	Pentafluorobenzene	168	10.014	10.015	(1.000)	1648692	50.0000	
* 53	1,4-Difluorobenzene	114	11.236	11.236	(1.000)	1518626	50.0000	
* 71	Chlorobenzene-D5	117	16.222	16.222	(1.000)	1159829	50.0000	
* 97	1,4-Dichlorobenzene-D4	152	20.431	20.431	(1.000)	670602	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9100.D
Lab Smp Id: VSTD050Q12B
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: 5970-Q;

Calibration Date: 12-DEC-2002
Calibration Time: 15:27
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1648692	0.00
53 1,4-Difluorobenze	1518626	759313	3037252	1518626	0.00
71 Chlorobenzene-D5	1159829	579915	2319658	1159829	0.00
97 1,4-Dichlorobenze	670602	335301	1341204	670602	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.01	0.00
53 1,4-Difluorobenze	11.24	10.74	11.74	11.24	0.00
71 Chlorobenzene-D5	16.22	15.72	16.72	16.22	0.00
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.43	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9100.D

Date : 12-DEC-2002 15:27

Client ID:

Instrument: gcms-q.i

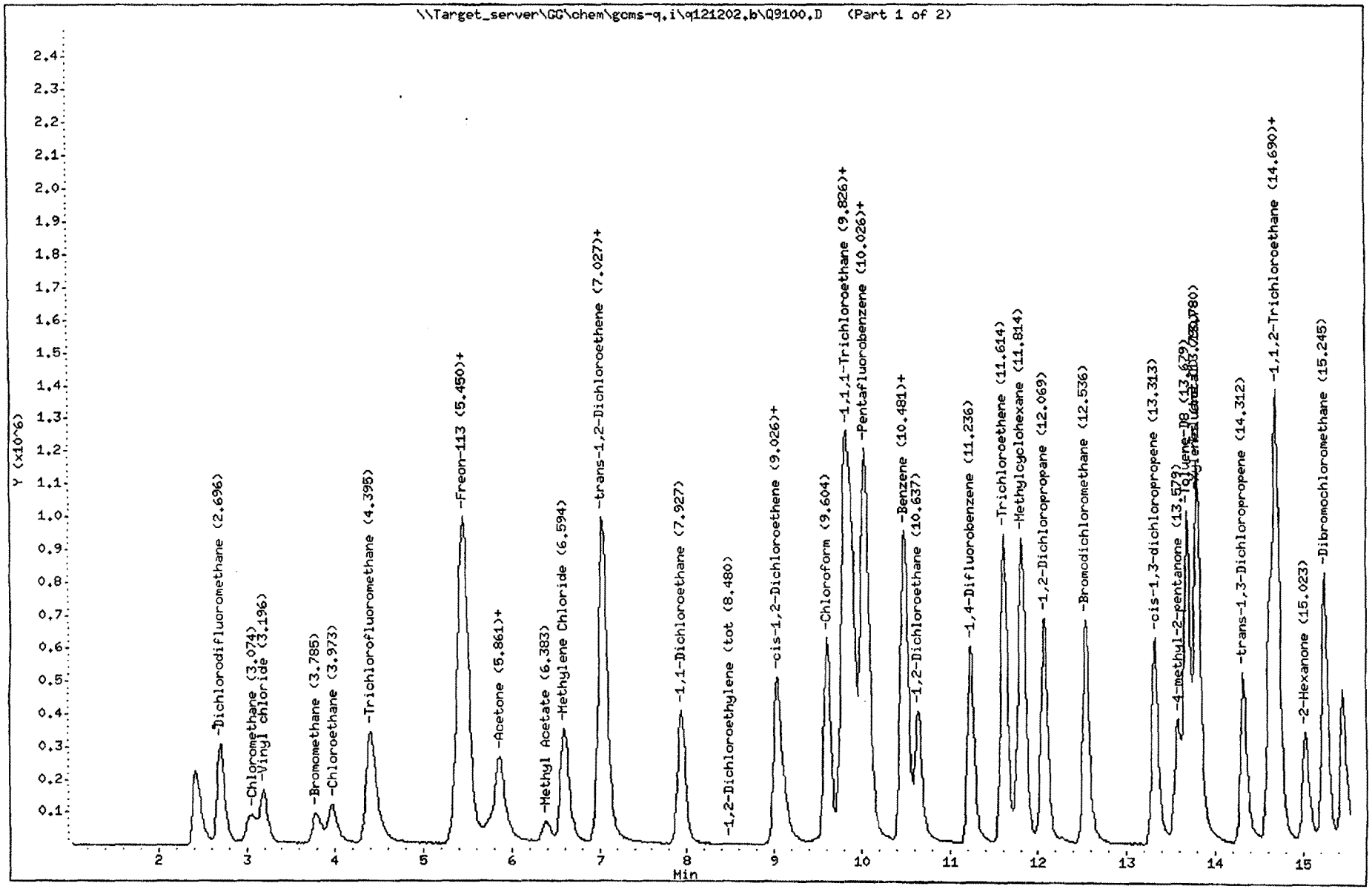
Sample Info: VSTD050Q12B

Purge Volume: 5000.0

Operator: JEY

Column phase: RTX-624

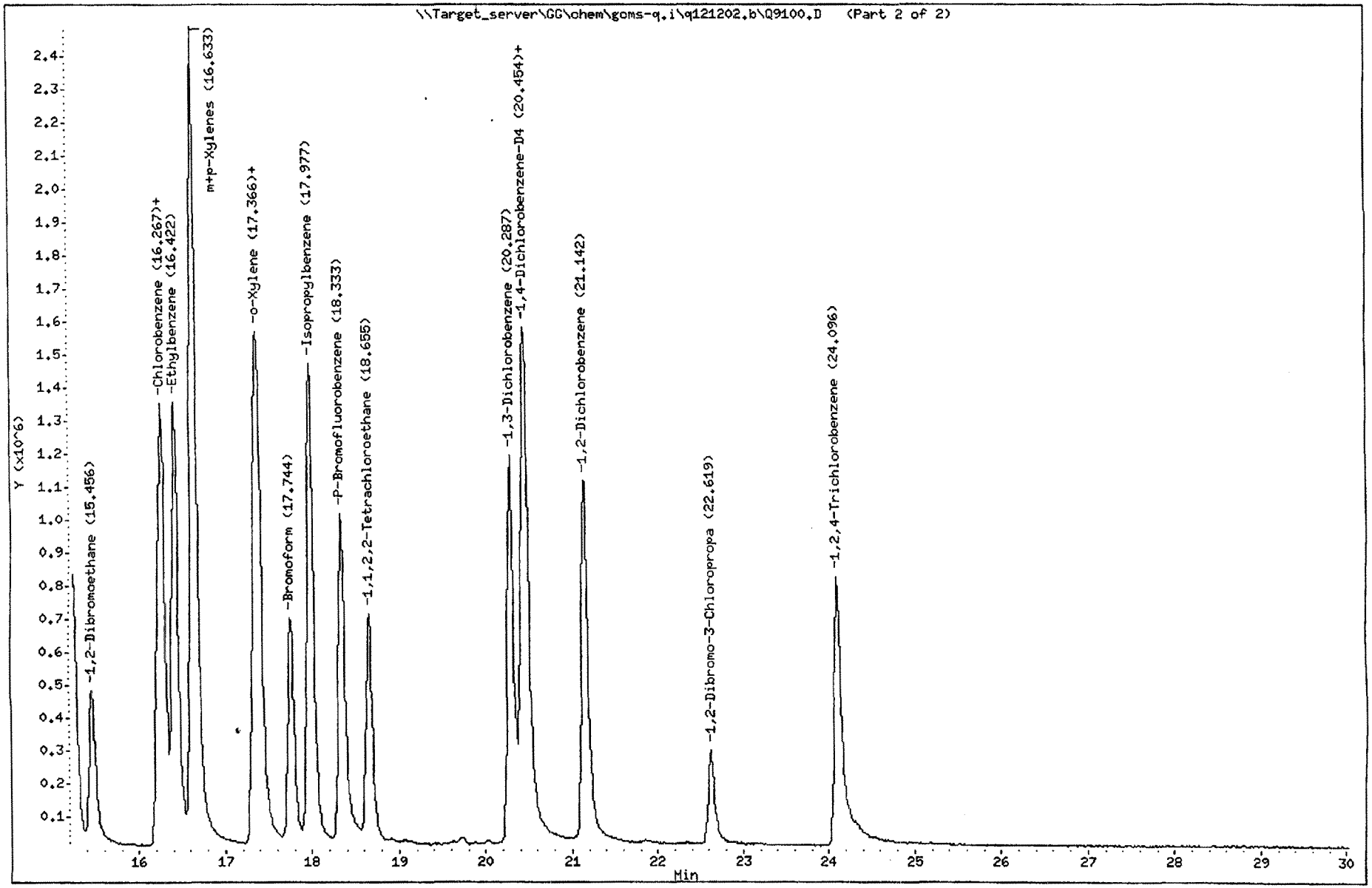
Column diameter: 0.18



Katahdin Analytical Services 1000049

Data File: \\Target_server\GC\chem\goms-q.i\q121202.b\Q9100.D
Date : 12-DEC-2002 15:27
Client ID:
Sample Info: VSTD050Q12B
Purge Volume: 5000.0
Column phase: RTX-624

Instrument: goms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000050

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GCMS-Q Calibration Date: 12/12/02 Time: 1527

Lab File ID: Q9100 Init. Calib. Date(s): 12/12/02 12/12/02

Init. Calib. Times: 1149 1527

GC Column: RTX-624 ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Dichlorodifluoromethane	0.6300000	0.5958700	0.5958700	0.01	-5.42		AVRG
Chloromethane	49.874000	50.000000	0.2552000	0.1	-0.25		LINR
Vinyl chloride	0.2840000	0.2747200	0.2747200	0.01	-3.27	20.00	AVRG
Bromomethane	0.1560000	0.1747000	0.1747000	0.01	11.99		AVRG
Chloroethane	0.2060000	0.1980300	0.1980300	0.01	-3.87		AVRG
Trichlorofluoromethane	0.7600000	0.7469700	0.7469700	0.01	-1.71		AVRG
Freon-113	0.6420000	0.6616800	0.6616800	0.01	3.06		AVRG
1,1-Dichloroethene	0.3690000	0.3891200	0.3891200	0.1	5.45	20.00	AVRG
Acetone	5.1e-002	5.46e-002	5.46e-002	0.01	7.06		AVRG
Carbon Disulfide	0.8180000	0.8818000	0.8818000	0.01	7.80		AVRG
Methylene Chloride	52.905000	50.000000	0.3765000	0.01	5.81		LINR
trans-1,2-Dichloroethene	0.4470000	0.4818200	0.4818200	0.01	7.79		AVRG
Methyl tert-butyl ether	0.5160000	0.5717900	0.5717900	0.01	10.81		AVRG
Methyl Acetate	57.218000	50.000000	0.1880000	0.01	14.44		LINR
1,1-Dichloroethane	0.6480000	0.6680300	0.6680300	0.01	3.09		AVRG
cis-1,2-Dichloroethene	0.4240000	0.4515000	0.4515000	0.01	6.48		AVRG
2-Butanone	6.2e-002	7.28e-002	7.28e-002	0.01	17.42		AVRG
Chloroform	0.8050000	0.8287000	0.8287000	0.01	2.94	20.00	AVRG
1,1,1-Trichloroethane	0.7560000	0.8128000	0.8128000	0.01	7.51		AVRG
Carbon Tetrachloride	58.083000	50.000000	0.8139000	0.01	16.17		LINR
Benzene	1.1600000	1.2460000	1.2460000	0.01	7.41		AVRG
Cyclohexane	0.5280000	0.5553000	0.5553000	0.01	5.17		AVRG
1,2-Dichloroethane	0.4820000	0.5313000	0.5313000	0.01	10.23		AVRG
Trichloroethene	0.5080000	0.5475000	0.5475000	0.01	7.78		AVRG
Methylcyclohexane	0.6570000	0.6885000	0.6885000	0.01	4.79		AVRG
1,2-Dichloropropane	0.3600000	0.3899000	0.3899000	0.01	8.30	20.00	AVRG
Bromodichloromethane	0.7320000	0.8174000	0.8174000	0.01	11.67		AVRG
cis-1,3-dichloropropene	0.5870000	0.6836000	0.6836000	0.01	16.46		AVRG
4-methyl-2-pentanone	0.3520000	0.4962000	0.4962000	0.01	40.97		AVRG

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GCMS-Q Calibration Date: 12/12/02 Time: 1527

Lab File ID: Q9100 Init. Calib. Date(s): 12/12/02 12/12/02

Init. Calib. Times: 1149 1527

GC Column: RTX-624 ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Toluene	0.8910000	0.9775000	0.9775000	0.01	9.71	20.00	AVRG	
trans-1,3-Dichloropropene	0.4700000	0.5526000	0.5526000	0.01	17.57		AVRG	
1,1,2-Trichloroethane	0.3040000	0.3416000	0.3416000	0.01	12.37		AVRG	
Tetrachloroethene	0.7980000	0.8991000	0.8991000	0.01	12.67		AVRG	
2-Hexanone	0.4150000	0.6021000	0.6021000	0.01	45.08		AVRG	
Dibromochloromethane	0.9200000	1.0810000	1.0810000	0.01	17.50		AVRG	
1,2-Dibromoethane	0.5670000	0.6394000	0.6394000	0.01	12.77		AVRG	
Chlorobenzene	1.4930000	1.6250000	1.6250000	0.3	8.84		AVRG	
Ethylbenzene	2.2060000	2.4460000	2.4460000	0.01	10.88	20.00	AVRG	
m+p-Xylenes	0.8320000	0.9160000	0.9160000	0.01	10.10		AVRG	
o-Xylene	0.8640000	0.9622000	0.9622000	0.01	11.37		AVRG	
Styrene	1.1420000	1.2970000	1.2970000	0.01	13.57		AVRG	
Bromoform	0.6990000	0.8616000	0.8616000	0.1	23.26		AVRG	
Isopropylbenzene	4.4460000	4.8980000	4.8980000	0.01	10.17		AVRG	
1,1,2,2-Tetrachloroethane	1.2850000	1.4244000	1.4244000	0.3	10.85		AVRG	
1,3-Dichlorobenzene	2.2360000	2.4500000	2.4500000	0.01	9.57		AVRG	
1,4-Dichlorobenzene	61.473000	50.000000	2.8170000	0.01	22.95		LINR	
1,2-Dichlorobenzene	2.1380000	2.3966000	2.3966000	0.01	12.10		AVRG	
1,2-Dibromo-3-Chloropropane	0.2400000	0.2741200	0.2741200	0.01	14.22		AVRG	
1,2,4-Trichlorobenzene	1.5030000	1.7120000	1.7120000	0.01	13.91		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.9333000	0.9333000	0.01	0.00		AVRG	<-
Xylenes (total)	0.0000000	0.9314000	0.9314000	0.01	0.00		AVRG	<-
Dibromofluoromethane	0.6460000	0.6579000	0.6579000	0.01	1.84		AVRG	
1,2-Dichloroethane-D4	0.3660000	0.3581000	0.3581000	0.01	-2.16		AVRG	
Toluene-D8	1.1780000	1.2340000	1.2340000	0.01	4.75		AVRG	
P-Bromofluorobenzene	0.7190000	0.7490000	0.7490000	0.01	4.17		AVRG	

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9100.D
Lab Smp Id: VSTD050Q12B
Inj Date : 12-DEC-2002 15:27
Operator : JEY Inst ID: gcms-q.i
Smp Info : VSTD050Q12B
Misc Info : 5970-Q;
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 15:27 Cal File: Q9100.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
1 Dichlorodifluoromethane	85	2.707	2.707	(0.270)	982411	50.0000	47.2
2 Chloromethane	50	3.073	3.074	(0.307)	420799	50.0000	49.9(M)
3 Vinyl chloride	62	3.196	3.196	(0.319)	452933	50.0000	48.3
4 Bromomethane	94	3.784	3.785	(0.378)	288049	50.0000	53.8
5 Chloroethane	64	3.962	3.962	(0.396)	326493	50.0000	48.1
6 Trichlorofluoromethane	101	4.406	4.406	(0.440)	1231517	50.0000	49.1
11 Freon-113	151	5.417	5.417	(0.541)	1090905	50.0000	51.5
9 1,1-Dichloroethene	96	5.472	5.472	(0.546)	641533	50.0000	52.8
15 Acetone	58	5.761	5.761	(0.575)	89995	50.0000	53.0
10 Carbon Disulfide	76	5.861	5.861	(0.585)	1453759	50.0000	56.5
14 Methylene Chloride	84	6.594	6.594	(0.658)	620733	50.0000	52.9
17 trans-1,2-Dichloroethene	96	7.038	7.038	(0.703)	794371	50.0000	53.9
19 Methyl tert-butyl ether	73	7.027	7.027	(0.702)	1885415	100.000	111
20 Methyl Acetate	43	6.383	6.383	(0.637)	309886	50.0000	57.2
27 1,1-Dichloroethane	63	7.926	7.926	(0.792)	1101375	50.0000	51.6
31 cis-1,2-Dichloroethene	96	9.026	9.026	(0.901)	744363	50.0000	53.2
42 2-Butanone	72	9.115	9.115	(0.910)	120062	50.0000	58.4
36 Chloroform	83	9.603	9.604	(0.959)	1366286	50.0000	51.5
40 1,1,1-Trichloroethane	97	9.837	9.837	(0.982)	1339978	50.0000	53.8
37 Carbon Tetrachloride	117	10.059	10.059	(0.895)	1236062	50.0000	58.1(M)
43 Benzene	78	10.470	10.470	(0.932)	1891561	50.0000	53.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/kg)	AMOUNTS ON-COL (ug/kg)
45	Cyclohexane	56	9.803	9.804	(0.979)	915570	50.0000	52.5
50	1,2-Dichloroethane	62	10.636	10.637	(0.947)	806775	50.0000	55.0
51	Trichloroethene	95	11.613	11.614	(1.034)	831449	50.0000	53.9
52	Methylcyclohexane	83	11.813	11.814	(1.051)	1045598	50.0000	52.4
55	1,2-Dichloropropane	63	12.069	12.069	(1.074)	592073	50.0000	57.4
56	Bromodichloromethane	83	12.535	12.536	(1.116)	1241281	50.0000	59.1
57	cis-1,3-dichloropropene	75	13.312	13.313	(1.185)	1038108	50.0000	58.2
63	4-methyl-2-pentanone	43	13.579	13.579	(1.209)	753503	50.0000	70.5
62	Toluene	92	13.790	13.790	(1.227)	1484467	50.0000	54.9
65	trans-1,3-Dichloropropene	75	14.312	14.312	(1.274)	839159	50.0000	58.7
66	1,1,2-Trichloroethane	83	14.612	14.612	(1.300)	518818	50.0000	56.2
64	Tetrachloroethene	164	14.690	14.690	(0.906)	1042766	50.0000	62.5
70	2-Hexanone	43	15.012	15.012	(0.925)	698368	50.0000	72.5
67	Dibromochloromethane	129	15.245	15.245	(0.940)	1253447	50.0000	58.4
69	1,2-Dibromoethane	107	15.456	15.456	(1.376)	971008	50.0000	56.3
72	Chlorobenzene	112	16.266	16.267	(1.003)	1884188	50.0000	59.7
73	Ethylbenzene	91	16.422	16.422	(1.012)	2837118	50.0000	55.4
76	m+p-Xylenes	106	16.633	16.633	(1.025)	2124904	100.000	110 (M)
77	o-Xylene	106	17.344	17.344	(1.069)	1116041	50.0000	55.7
78	Styrene	104	17.388	17.389	(1.072)	1504421	50.0000	56.8
79	Bromoform	173	17.743	17.744	(1.094)	999306	50.0000	58.6
80	Isopropylbenzene	105	17.977	17.977	(0.880)	3284630	50.0000	58.8
87	1,1,2,2-Tetrachloroethane	83	18.654	18.654	(0.913)	955196	50.0000	55.4
96	1,3-Dichlorobenzene	146	20.287	20.287	(0.993)	1643198	50.0000	54.8
98	1,4-Dichlorobenzene	146	20.464	20.465	(1.002)	1889404	50.0000	61.5 (M)
101	1,2-Dichlorobenzene	146	21.153	21.153	(1.035)	1607159	50.0000	56.0
102	1,2-Dibromo-3-Chloropropane	75	22.619	22.619	(1.107)	183828	50.0000	57.1
105	1,2,4-Trichlorobenzene	180	24.096	24.096	(1.179)	1147976	50.0000	58.8
$ 39	Dibromofluoromethane	113	9.892	9.893	(0.988)	1084714	50.0000	51.0
$ 47	1,2-Dichloroethane-D4	65	10.503	10.503	(1.049)	590340	50.0000	49.0
$ 60	Toluene-D8	98	13.679	13.679	(1.217)	1873981	50.0000	52.4
$ 81	P-Bromofluorobenzene	95	18.332	18.333	(1.632)	1137476	50.0000	54.3
* 44	Pentafluorobenzene	168	10.014	10.015	(1.000)	1648692	50.0000	
* 53	1,4-Difluorobenzene	114	11.236	11.236	(1.000)	1518626	50.0000	
* 71	Chlorobenzene-D5	117	16.222	16.222	(1.000)	1159829	50.0000	
* 97	1,4-Dichlorobenzene-D4	152	20.431	20.431	(1.000)	670602	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9100.D
Lab Smp Id: VSTD050Q12B
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: 5970-Q;

Calibration Date: 12-DEC-2002
Calibration Time: 15:27

Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1648692	0.00
53 1,4-Difluorobenze	1518626	759313	3037252	1518626	0.00
71 Chlorobenzene-D5	1159829	579915	2319658	1159829	0.00
97 1,4-Dichlorobenze	670602	335301	1341204	670602	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.01	0.00
53 1,4-Difluorobenze	11.24	10.74	11.74	11.24	0.00
71 Chlorobenzene-D5	16.22	15.72	16.72	16.22	0.00
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.43	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9100.D

Date : 12-DEC-2002 15:27

Client ID:

Sample Info: VSTD050Q12B

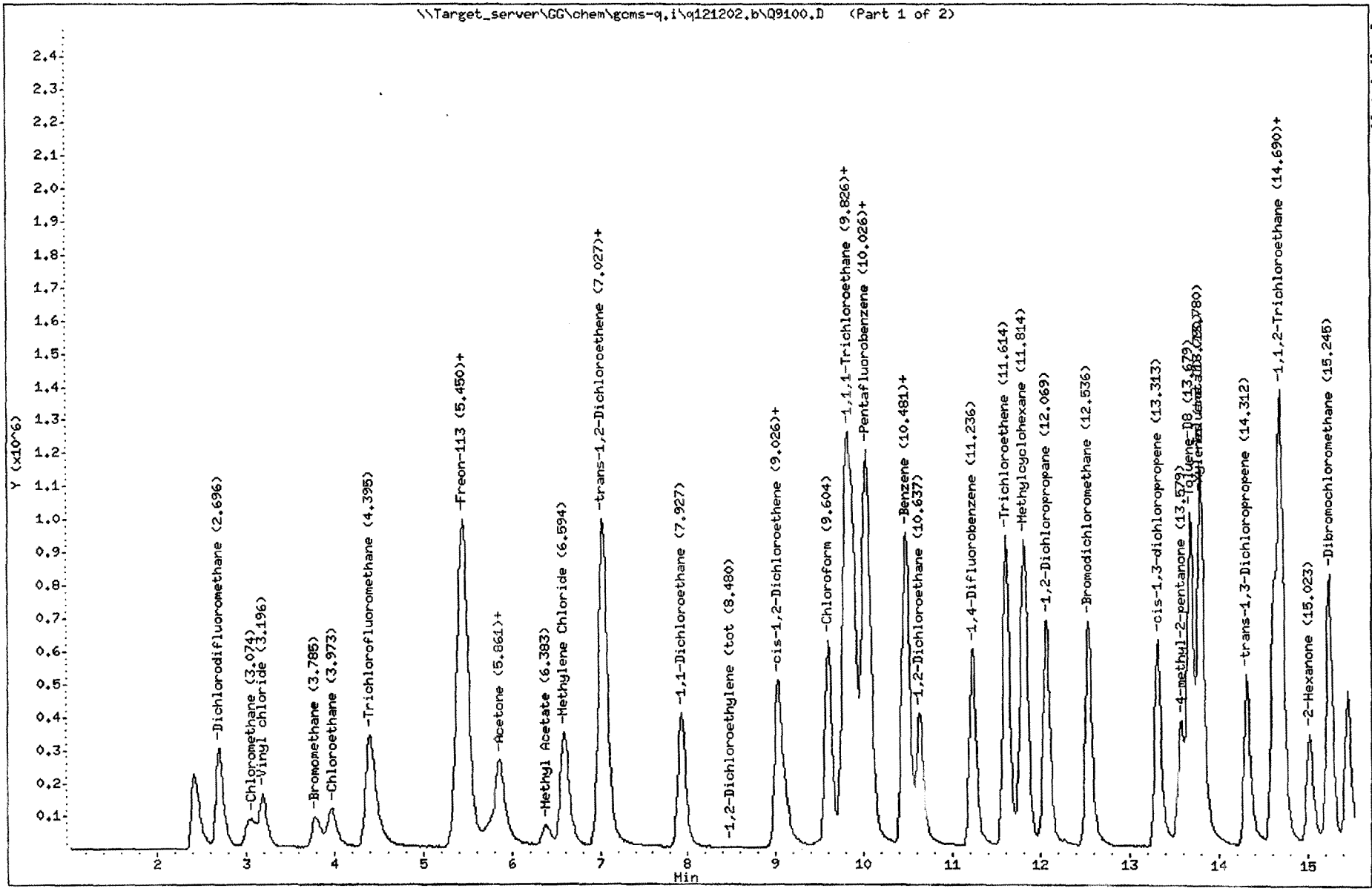
Purge Volume: 5000.0

Column phase: RTX-624

Instrument: gcms-q.i

Operator: JEY

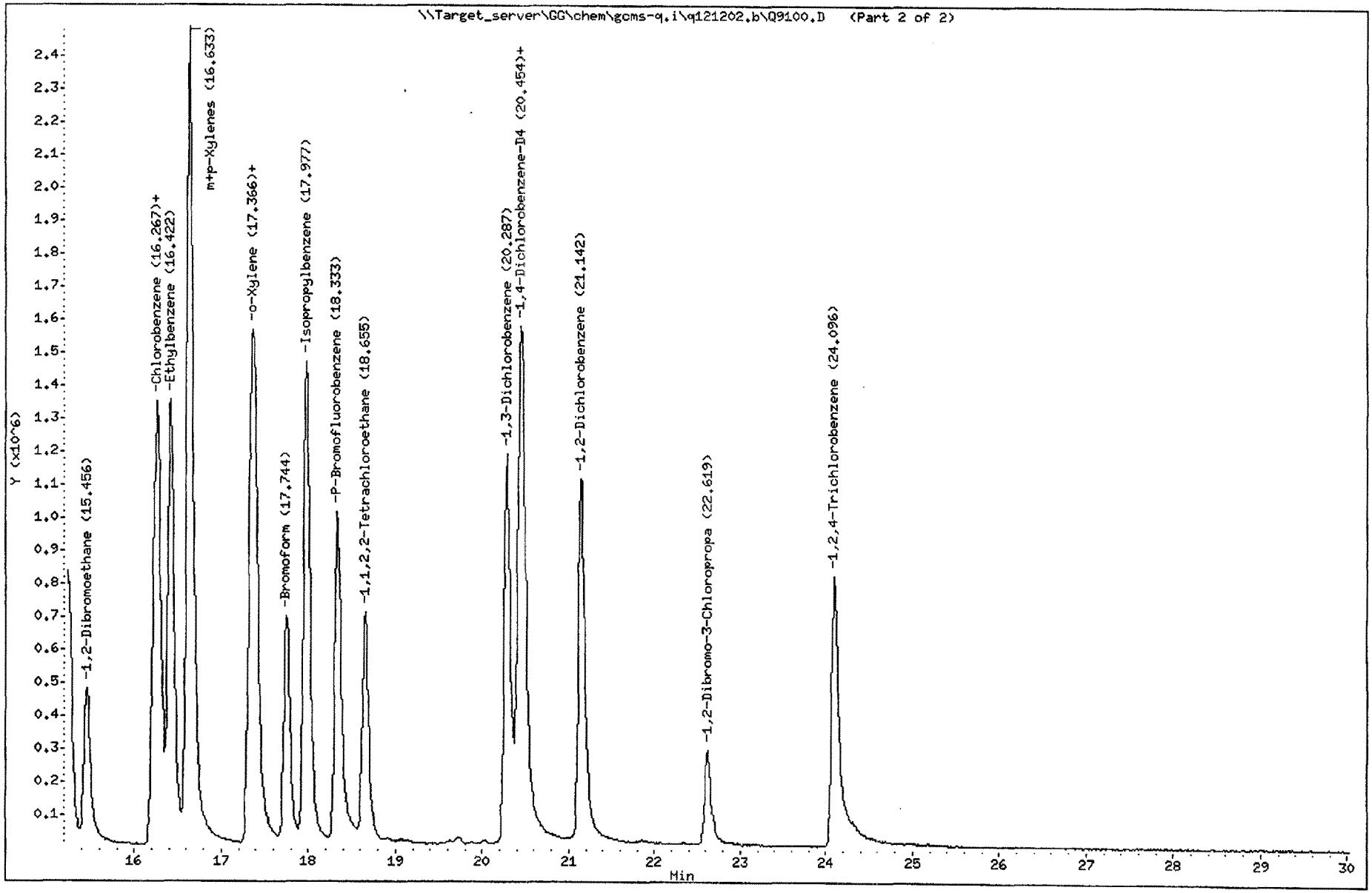
Column diameter: 0.18



Katahdin Analytical Services 1000056

Data File: \\Target_server\GC\ohem\gcms-q.i\q121202.b\Q9100.D
Date : 12-DEC-2002 15:27
Client ID:
Sample Info: VSTD050Q12B
Purge Volume: 5000.0
Column phase: RTX-624

Instrument: gcms-q.i
Operator: JEY
Column diameter: 0.18



Katahdin Analytical Services 1000057

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\QB277.D

Date : 12-DEC-2002 10:43

Client ID:

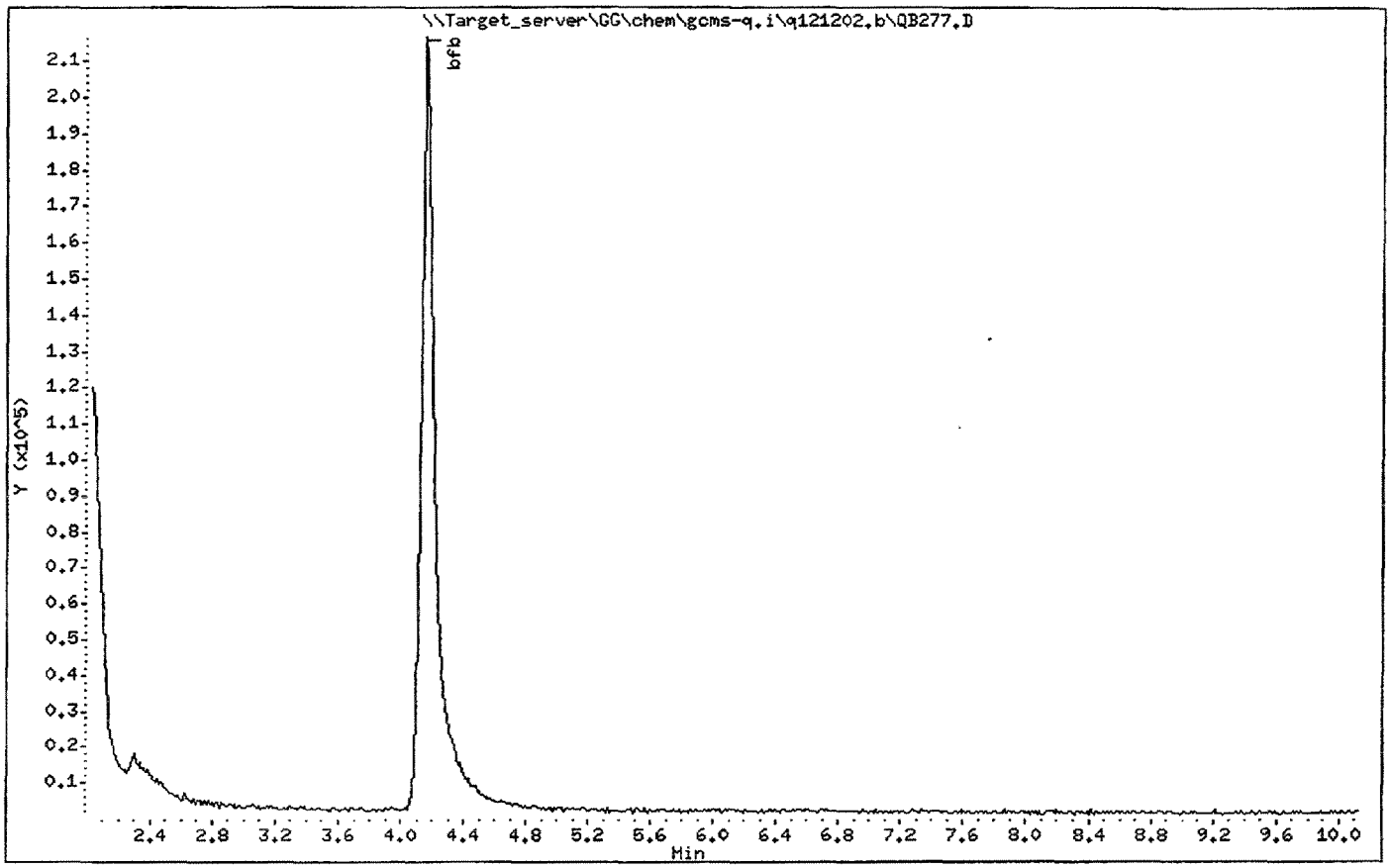
Instrument: gcms-q.i

Sample Info: 50NG BFB

Operator: JEY

Column phase: RTX-502

Column diameter: 0.18



Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\QB277.D

Date : 12-DEC-2002 10:43

Client ID:

Instrument: gcms-q.i

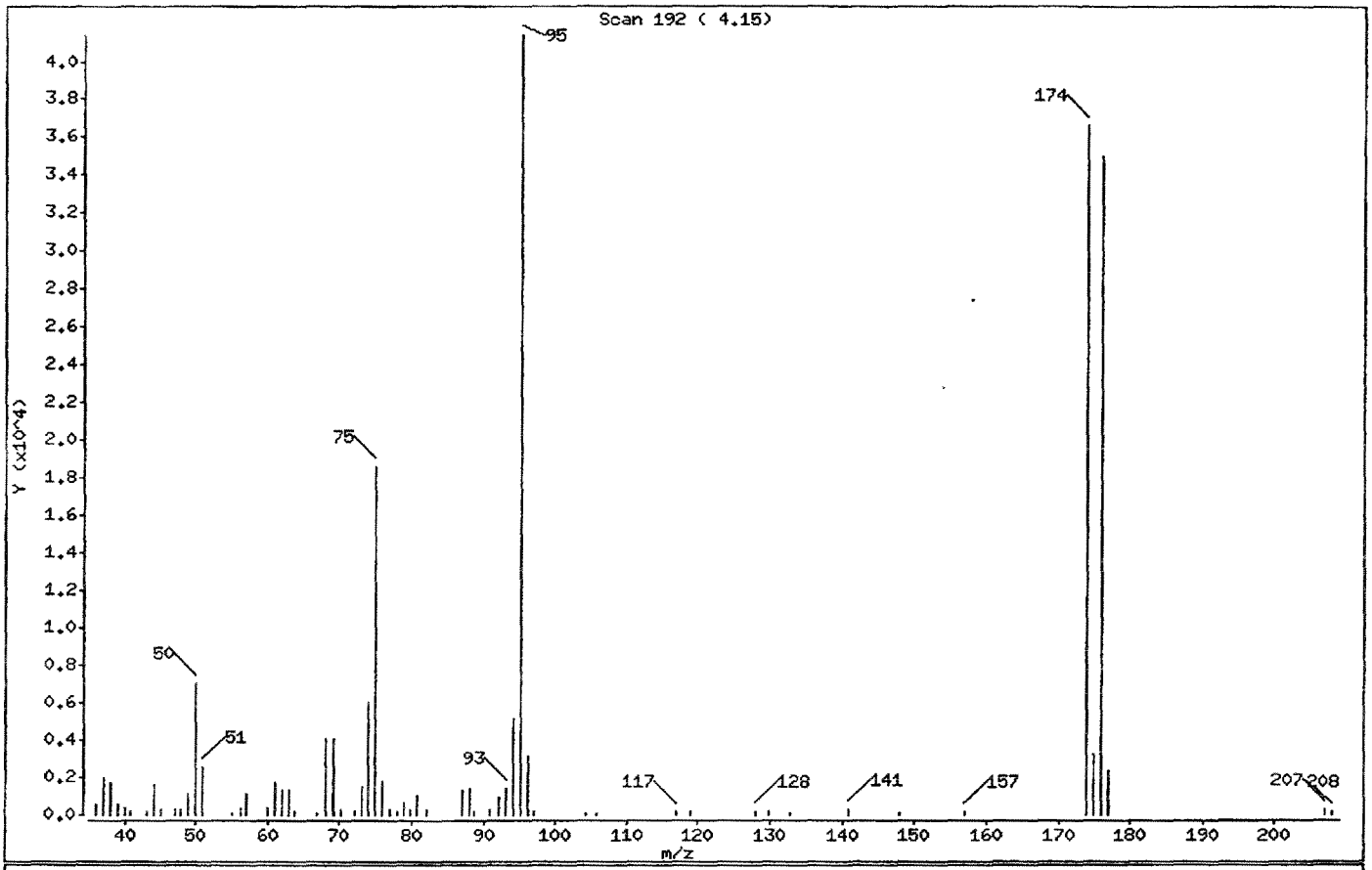
Sample Info: 50NG BFB

Operator: JEY

Column phase: RTX-502

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.05
75	30.00 - 60.00% of mass 95	45.00
96	5.00 - 9.00% of mass 95	7.51
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	88.42
175	4.00 - 9.00% of mass 174	7.72 (8.73)
176	95.00 - 101.00% of mass 174	84.67 (95.76)
177	5.00 - 9.00% of mass 176	5.84 (6.90)

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date:
Received Date:
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL
% Solids: 100

Lab ID: WG1303-1
Client ID: WG1303-BLANK
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.6
74-87-3	Chloromethane	U	5	1.0	5	5	1.0
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.6
74-83-9	Bromomethane	U	5	1.0	5	5	1
75-00-3	Chloroethane	U	5	1.0	5	5	0.7
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.6
76-13-1	Freon-113	U	5	1.0	5	5	1
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	1
67-64-1	Acetone	U	20	1.0	20	20	6
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.7
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.8
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.9
79-20-9	Methyl Acetate	U	5	1.0	5	5	0.00
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.6
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.6
78-93-3	2-Butanone	U	20	1.0	20	20	6
67-66-3	Chloroform	U	5	1.0	5	5	0.6
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.6
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.7
71-43-2	Benzene	U	5	1.0	5	5	0.7
1735-17-7	Cyclohexane	U	5	1.0	5	5	0.4
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	2
79-01-6	Trichloroethene	U	5	1.0	5	5	1
	Methylcyclohexane	U	5	1.0	5	5	0.00
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	1
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	2
108-10-1	4-methyl-2-pentanone	U	20	1.0	20	20	12
108-88-3	Toluene	U	5	1.0	5	5	2
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	2
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.9
591-78-6	2-Hexanone	U	20	1.0	20	20	6
124-48-1	Dibromochloromethane	U	5	1.0	5	5	1
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.8
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.6
	m+p-Xylenes	U	5	1.0	5	5	1
95-47-6	o-Xylene	U	5	1.0	5	5	0.7
100-42-5	Styrene	U	5	1.0	5	5	0.6
75-25-2	Bromoform	U	5	1.0	5	5	1
98-82-8	Isopropylbenzene	U	5	1.0	5	5	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date:
Received Date:
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL
% Solids: 100

Lab ID: WG1303-1
Client ID: WG1303-BLANK
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	2
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.9
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.9
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.8
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	1
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	0.9
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		107%				
460-00-4	P-Bromofluorobenzene		107%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9104.D
Lab Smp Id: WG1303-1 Client Smp ID: WG1303-BLANK
Inj Date : 12-DEC-2002 18:07
Operator : JEY Inst ID: gcms-q.i
Smp Info : WG1303-1
Misc Info : SW846 8260B
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 15:27 Cal File: Q9100.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12
Processing Host: TARGET06

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
$ 39 Dibromofluoromethane	113	9.953	9.893	(0.989)	1003808	51.8407	51.8
$ 47 1,2-Dichloroethane-D4	65	10.564	10.503	(1.050)	560069	50.9514	51.0
$ 60 Toluene-D8	98	13.717	13.679	(1.215)	1735784	53.5721	53.6
$ 81 P-Bromofluorobenzene	95	18.348	18.333	(1.626)	1054790	53.3265	53.3
* 44 Pentafluorobenzene	168	10.064	10.015	(1.000)	1499816	50.0000	
* 53 1,4-Difluorobenzene	114	11.285	11.236	(1.000)	1375267	50.0000	
* 71 Chlorobenzene-D5	117	16.238	16.222	(1.000)	1059151	50.0000	
* 97 1,4-Dichlorobenzene-D4	152	20.436	20.431	(1.000)	580062	50.0000	

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9104.D
Lab Smp Id: WG1303-1 Client Smp ID: WG1303-BLANK
Inj Date : 12-DEC-2002 18:07
Operator : JEY Inst ID: gcms-q.i
Smp Info : WG1303-1
Misc Info : SW846 8260B
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 15:27 Cal File: Q9100.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12
Processing Host: TARGET06

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9104.D
Lab Smp Id: WG1303-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Calibration Date: 12-DEC-2002
Calibration Time: 15:27
Client Smp ID: WG1303-BLANK
Level: LOW
Sample Type: SOIL
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: SW846 8260B

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1499816	-9.03
53 1,4-Difluorobenze	1518626	759313	3037252	1375267	-9.44
71 Chlorobenzene-D5	1159829	579915	2319658	1059151	-8.68
97 1,4-Dichlorobenze	670602	335301	1341204	580062	-13.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.06	0.50
53 1,4-Difluorobenze	11.24	10.74	11.74	11.29	0.44
71 Chlorobenzene-D5	16.22	15.72	16.72	16.24	0.10
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.44	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Client SDG: SDGa01348
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: WG1303-1
Client Smp ID: WG1303-BLANK
Level: LOW
Operator: JEY
Data Type: MS DATA
SampleType: BLANK
SpikeList File: spikelist.spk
Quant Type: ISTD
Sublist File: SW8260OLM.sub
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: SW846 8260B

SURROGATE COMPOUND	AMOUNT ADDED ug/kg	AMOUNT RECOVERED ug/kg	% RECOVERED	LIMITS
$ 39 Dibromofluorometha	50.0	51.8	103.68	69-148
$ 47 1,2-Dichloroethane	50.0	51.0	101.90	66-149
$ 60 Toluene-D8	50.0	53.6	107.14	68-147
$ 81 P-Bromofluorobenze	50.0	53.3	106.65	64-152

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: WG1303-1
Operator : JEY
Sample Location:
Sample Matrix: SOIL
Analysis Type: VOA
Inj Date: 12-DEC-2002 18:07

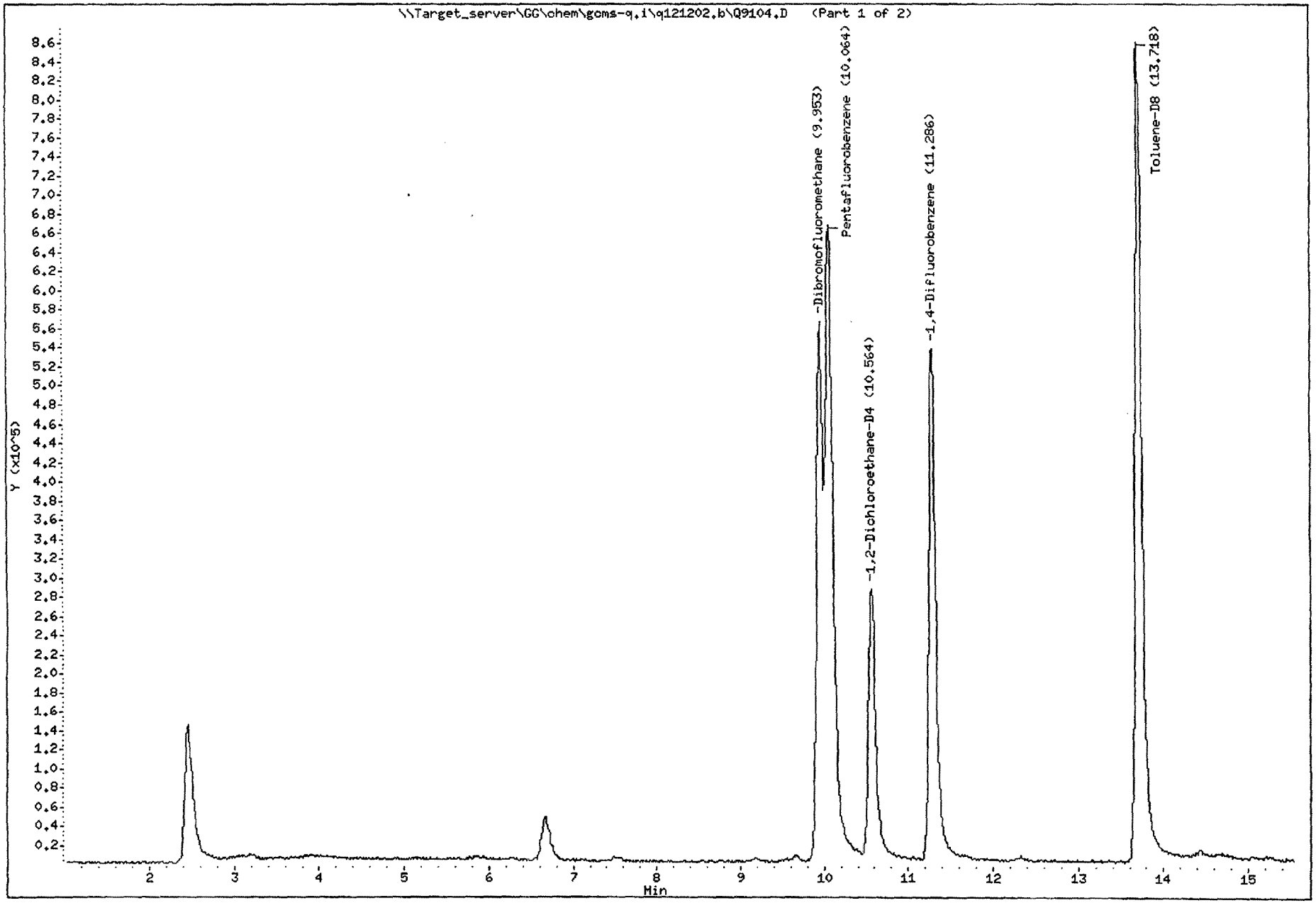
Client SDG: SDGa01348
Client Smp ID: WG1303-BLANK
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

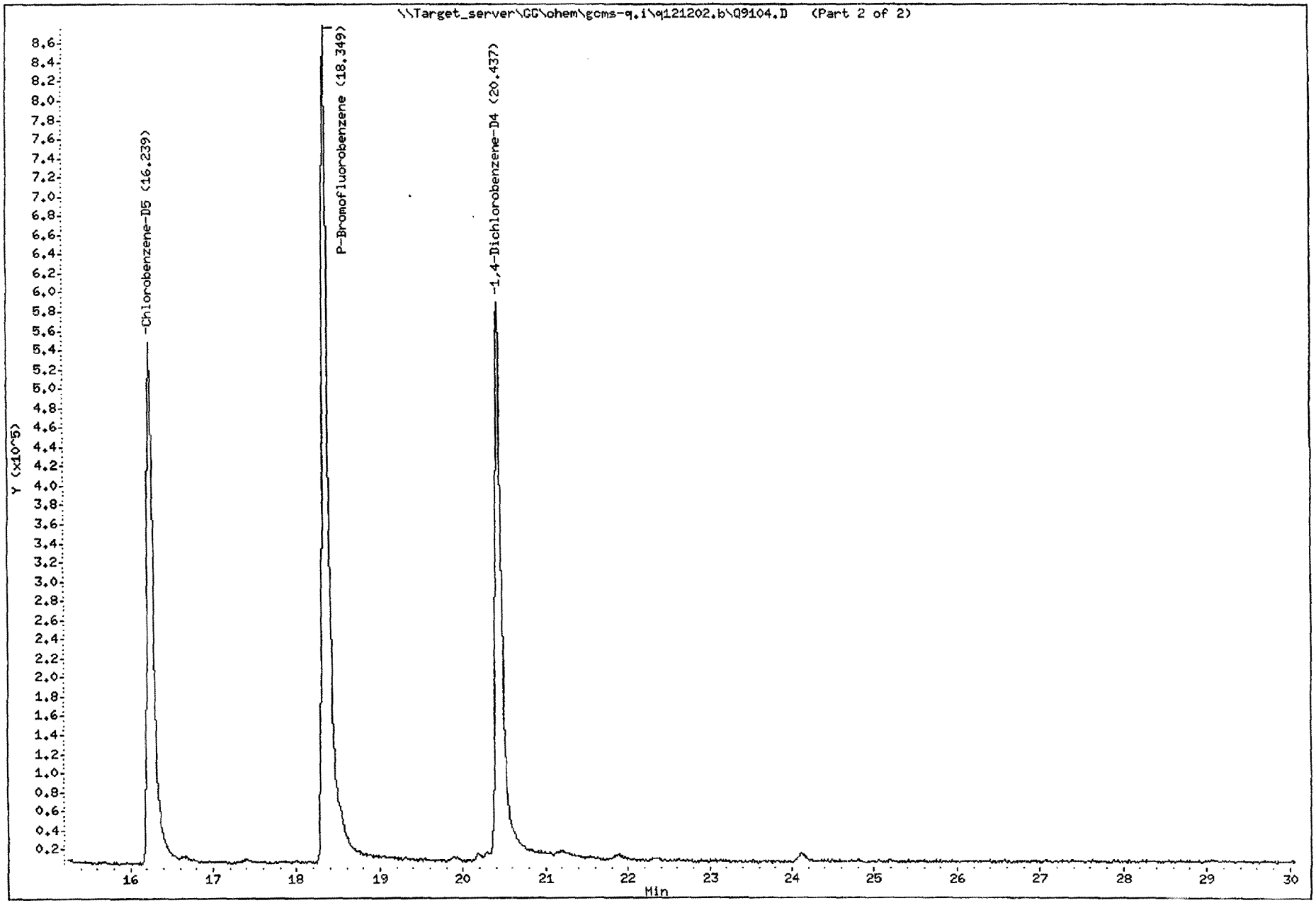
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9104.D
Date : 12-DEC-2002 18:07
Client ID: WG1303-BLANK
Instrument: gcms-q.i
Sample Info: WG1303-1



Katahdin Analytical Services 1000069

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9104.D
Date : 12-DEC-2002 18:07
Client ID: WC1303-BLANK
Instrument: gcms-q.i
Sample Info: WC1303-1



Katahdin Analytical Services 1000070

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date:
Received Date:
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL

Lab ID: WG1303-2
Client ID: WG1303-LCS
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	44	87	4-217
Chloromethane	50	NA	49	98	40-163
Vinyl chloride	50	NA	44	88	55-151
Bromomethane	50	NA	48	96	24-217
Chloroethane	50	NA	45	91	69-134
Trichlorofluoromethane	50	NA	46	91	71-147
Freon-113	50	NA	49	98	60-140
1,1-Dichloroethene	50	NA	49	98	78-136
Acetone	50	NA	50	100	0-158
Carbon Disulfide	50	NA	49	99	70-136
Methylene Chloride	50	NA	53	106	52-115
trans-1,2-Dichloroethene	50	NA	48	97	84-131
Methyl tert-butyl ether	50	NA	58	117	62-130
Methyl Acetate	50	NA	55	109	60-140
1,1-Dichloroethane	50	NA	50	101	81-134
cis-1,2-Dichloroethene	50	NA	52	104	84-123
2-Butanone	50	NA	55	109	49-154
Chloroform	50	NA	51	102	80-130
1,1,1-Trichloroethane	50	NA	50	101	76-138
Carbon Tetrachloride	50	NA	59	118	74-137
Benzene	50	NA	50	99	88-120
Cyclohexane	50	NA	50	100	60-140
1,2-Dichloroethane	50	NA	54	108	78-138
Trichloroethene	50	NA	50	100	80-125
Methylcyclohexane	50	NA	48	97	60-140
1,2-Dichloropropane	50	NA	52	103	80-122
Bromodichloromethane	50	NA	54	107	83-133
cis-1,3-dichloropropene	50	NA	56	111	81-138
4-methyl-2-pentanone	50	NA	69	138	72-140
Toluene	50	NA	50	100	88-121
trans-1,3-Dichloropropene	50	NA	57	115	81-149
1,1,2-Trichloroethane	50	NA	55	110	82-126
Tetrachloroethene	50	NA	52	104	77-129
2-Hexanone	50	NA	71	142	45-146
Dibromochloromethane	50	NA	58	116	80-133
1,2-Dibromoethane	50	NA	56	111	88-127
Chlorobenzene	50	NA	52	105	84-123
Ethylbenzene	50	NA	52	104	84-131
m+p-Xylenes	100	NA	114	114	88-122
o-Xylene	50	NA	53	106	90-123
Styrene	50	NA	54	109	87-131
Bromoform	50	NA	61	121	77-138
Isopropylbenzene	50	NA	52	104	88-125
1,1,2,2-Tetrachloroethane	50	NA	57	114	81-131
1,3-Dichlorobenzene	50	NA	54	108	86-124

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date:
Received Date:
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL

Lab ID: WG1303-2
Client ID: WG1303-LCS
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,4-Dichlorobenzene	50	NA	57	113	80-127
1,2-Dichlorobenzene	50	NA	54	109	86-126
1,2-Dibromo-3-Chloropropane	50	NA	60	120	61-136
1,2,4-Trichlorobenzene	50	NA	54	108	53-157
1,2-Dichloroethylene (total)	100	NA	100	100	84-131
Xylenes (total)	150	NA	167	111	88-123

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9101.D
Lab Smp Id: WG1303-2 Client Smp ID: WG1303-LCS
Inj Date : 12-DEC-2002 16:14
Operator : JEY Inst ID: gcms-q.i
Smp Info : WG1303-2
Misc Info : SW846 8260B
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 15:27 Cal File: Q9100.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12
Processing Host: TARGET06

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vt	5.000	Purge Volume (ml)
Ws	5.000	weight of sample (g)
Va	400.000	Soil Aliquot Volume (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	2.747	2.707	(0.274)	867659	43.6935	43.7
2 Chloromethane	50	3.091	3.074	(0.308)	395616	49.0148	49.0
3 Vinyl chloride	62	3.246	3.196	(0.324)	394917	44.0980	44.1
4 Bromomethane	94	3.835	3.785	(0.382)	235110	47.8649	47.9
5 Chloroethane	64	4.013	3.962	(0.400)	293729	45.3282	45.3
6 Trichlorofluoromethane	101	4.457	4.406	(0.444)	1090248	45.5347	45.5
11 Freon-113	151	5.478	5.417	(0.546)	993013	49.1123	49.1
9 1,1-Dichloroethene	96	5.523	5.472	(0.551)	569107	48.9992	49.0
15 Acetone	58	5.800	5.761	(0.578)	80688	49.7863	49.8
10 Carbon Disulfide	76	5.900	5.861	(0.588)	1272257	49.4100	49.4
14 Methylene Chloride	84	6.644	6.594	(0.662)	592335	52.8492	52.8
17 trans-1,2-Dichloroethene	96	7.078	7.038	(0.706)	682441	48.4757	48.5
19 Methyl tert-butyl ether	73	7.066	7.027	(0.704)	1736073	106.710	107(R)
20 Methyl Acetate	43	6.433	6.383	(0.641)	284906	54.7293	54.7
27 1,1-Dichloroethane	63	7.966	7.926	(0.794)	1030523	50.5256	50.5
31 cis-1,2-Dichloroethene	96	9.054	9.026	(0.903)	692086	51.7688	51.8
42 2-Butanone	72	9.143	9.115	(0.911)	107344	54.6705	54.7
36 Chloroform	83	9.632	9.604	(0.960)	1291266	50.9213	50.9
40 1,1,1-Trichloroethane	97	9.843	9.837	(0.981)	1198661	50.3649	50.4
37 Carbon Tetrachloride	117	10.076	10.059	(0.896)	1235028	58.8106	58.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/kg)	FINAL (ug/Kg)
43	Benzene	78	10.487	10.470	(0.933)	1727109	49.5598	49.6
45	Cyclohexane	56	9.821	9.804	(0.979)	833757	50.0931	50.1
50	1,2-Dichloroethane	62	10.665	10.637	(0.949)	785573	54.1995	54.2
51	Trichloroethene	95	11.620	11.614	(1.034)	765102	50.1492	50.1
52	Methylcyclohexane	83	11.831	11.814	(1.052)	953671	48.3348	48.3
55	1,2-Dichloropropane	63	12.075	12.069	(1.074)	556583	51.4693	51.5
56	Bromodichloromethane	83	12.541	12.536	(1.116)	1178378	53.5826	53.6
57	cis-1,3-dichloropropene	75	13.319	13.313	(1.185)	979029	55.4895	55.5
63	4-methyl-2-pentanone	43	13.585	13.579	(1.208)	730987	69.1502	69.2
62	Toluene	92	13.807	13.790	(1.228)	1340090	50.1022	50.1
65	trans-1,3-Dichloropropene	75	14.318	14.312	(1.274)	810738	57.3853	57.4
66	1,1,2-Trichloroethane	83	14.618	14.612	(1.300)	501844	55.0112	55.0
64	Tetrachloroethene	164	14.696	14.690	(0.906)	924653	52.1152	52.1
70	2-Hexanone	43	15.018	15.012	(0.925)	655969	71.1063	71.1
67	Dibromochloromethane	129	15.251	15.245	(0.940)	1190540	58.2373	58.2
69	1,2-Dibromoethane	107	15.451	15.456	(1.374)	947289	55.5643	55.6
72	Chlorobenzene	112	16.284	16.267	(1.003)	1740739	52.4467	52.4
73	Ethylbenzene	91	16.428	16.422	(1.012)	2552777	52.0659	52.1
76	m+p-Xylenes	106	16.639	16.633	(1.025)	2104579	113.887	114
77	o-Xylene	106	17.350	17.344	(1.069)	1020822	53.1770	53.2
78	Styrene	104	17.405	17.389	(1.073)	1379784	54.3531	54.4
79	Bromoform	173	17.761	17.744	(1.094)	941391	60.5681	60.6
80	Isopropylbenzene	105	17.994	17.977	(0.880)	2940743	52.0269	52.0
87	1,1,2,2-Tetrachloroethane	83	18.671	18.654	(0.913)	933511	57.1494	57.1
96	1,3-Dichlorobenzene	146	20.315	20.287	(0.993)	1531972	53.9047	53.9
98	1,4-Dichlorobenzene	146	20.504	20.465	(1.002)	1660813	56.6142	56.6
101	1,2-Dichlorobenzene	146	21.181	21.153	(1.035)	1475079	54.2827	54.3
102	1,2-Dibromo-3-Chloropropane	75	22.647	22.619	(1.107)	183492	60.1334	60.1
105	1,2,4-Trichlorobenzene	180	24.124	24.096	(1.179)	1029993	53.9198	53.9
M 32	1,2-Dichloroethylene (total)	96				1374527	100.245	100
M 75	Xylenes (total)	106				3125401	167.064	167
$ 39	Dibromofluoromethane	113	9.921	9.893	(0.989)	1037171	51.0168	51.0
$ 47	1,2-Dichloroethane-D4	65	10.531	10.503	(1.050)	603218	52.2675	52.3
$ 60	Toluene-D8	98	13.685	13.679	(1.217)	1751303	49.4981	49.5
$ 81	P-Bromofluorobenzene	95	18.349	18.333	(1.632)	1069029	49.4937	49.5
* 44	Pentafluorobenzene	168	10.032	10.015	(1.000)	1574691	50.0000	
* 53	1,4-Difluorobenzene	114	11.242	11.236	(1.000)	1501770	50.0000	
* 71	Chlorobenzene-D5	117	16.228	16.222	(1.000)	1111197	50.0000	
* 97	1,4-Dichlorobenzene-D4	152	20.459	20.431	(1.000)	635616	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-q.i\q121202.b\Q9101.D
Lab Smp Id: WG1303-2 Client Smp ID: WG1303-LCS
Inj Date : 12-DEC-2002 16:14
Operator : JEY Inst ID: gcms-q.i
Smp Info : WG1303-2
Misc Info : SW846 8260B
Comment :
Method : \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Meth Date : 13-Dec-2002 08:01 yates Quant Type: ISTD
Cal Date : 12-DEC-2002 15:27 Cal File: Q9100.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM.sub
Target Version: 4.12
Processing Host: TARGET06

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Katahdin Analytical Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcms-q.i
Lab File ID: Q9101.D
Lab Smp Id: WG1303-2
Analysis Type: VOA
Quant Type: ISTD
Operator: JEY
Calibration Date: 12-DEC-2002
Calibration Time: 15:27
Client Smp ID: WG1303-LCS
Level: LOW
Sample Type: SOIL
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: SW846 8260B

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	1648692	824346	3297384	1574691	-4.49
53 1,4-Difluorobenze	1518626	759313	3037252	1501770	-1.11
71 Chlorobenzene-D5	1159829	579915	2319658	1111197	-4.19
97 1,4-Dichlorobenze	670602	335301	1341204	635616	-5.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
44 Pentafluorobenzen	10.01	9.51	10.51	10.03	0.17
53 1,4-Difluorobenze	11.24	10.74	11.74	11.24	0.06
71 Chlorobenzene-D5	16.22	15.72	16.72	16.23	0.04
97 1,4-Dichlorobenze	20.43	19.93	20.93	20.46	0.14

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Client SDG: SDGa01348
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: WG1303-2
Client Smp ID: WG1303-LCS
Level: LOW
Operator: JEY
Data Type: MS DATA
SampleType: LCS
SpikeList File: SW8260OLM.spk
Quant Type: ISTD
Sublist File: SW8260OLM.sub
Method File: \\Target_server\GG\chem\gcms-q.i\q121202.b\q82olm4.2sl.m
Misc Info: SW846 8260B

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	43.7	87.39	4-217
2	Chloromethane	50.0	49.0	98.03	40-163
3	Vinyl chloride	50.0	44.1	88.20	55-151
4	Bromomethane	50.0	47.9	95.73	24-217
5	Chloroethane	50.0	45.3	90.66	69-134
6	Trichlorofluoromet	50.0	45.5	91.07	71-147
11	Freon-113	50.0	49.1	98.22	60-140
9	1,1-Dichloroethene	50.0	49.0	98.00	78-136
15	Acetone	50.0	49.8	99.57	0-158
10	Carbon Disulfide	50.0	49.4	98.82	70-136
20	Methyl Acetate	50.0	54.7	109.46	60-140
14	Methylene Chloride	50.0	52.8	105.70	52-115
19	Methyl tert-butyl	50.0	107	213.42*	62-130
17	trans-1,2-Dichloro	50.0	48.5	96.95	84-131
27	1,1-Dichloroethane	50.0	50.5	101.05	81-134
31	cis-1,2-Dichloroet	50.0	51.8	103.54	84-123
42	2-Butanone	50.0	54.7	109.34	49-154
36	Chloroform	50.0	50.9	101.84	80-130
45	Cyclohexane	50.0	50.1	100.19	60-140
40	1,1,1-Trichloroeth	50.0	50.4	100.73	76-138
37	Carbon Tetrachlori	50.0	58.8	117.62	74-137
43	Benzene	50.0	49.6	99.12	88-120
50	1,2-Dichloroethane	50.0	54.2	108.40	78-138
51	Trichloroethene	50.0	50.1	100.30	80-125
52	Methylcyclohexane	50.0	48.3	96.67	60-140
55	1,2-Dichloropropan	50.0	51.5	102.94	80-122
56	Bromodichlorometha	50.0	53.6	107.17	83-133
57	cis-1,3-dichloropr	50.0	55.5	110.98	81-138
63	4-methyl-2-pentano	50.0	69.2	138.30	72-140
62	Toluene	50.0	50.1	100.20	88-121
65	trans-1,3-Dichloro	50.0	57.4	114.77	81-149
66	1,1,2-Trichloroeth	50.0	55.0	110.02	82-126
64	Tetrachloroethene	50.0	52.1	104.23	77-129
70	2-Hexanone	50.0	71.1	142.21	45-146
67	Dibromochlorometha	50.0	58.2	116.47	80-133
69	1,2-Dibromoethane	50.0	55.6	111.13	88-127
72	Chlorobenzene	50.0	52.4	104.89	84-123
73	Ethylbenzene	50.0	52.1	104.13	84-131
76	m+p-Xylenes	100	114	113.89	88-122
77	o-Xylene	50.0	53.2	106.35	90-123

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	78 Styrene	50.0	54.4	108.71	87-131
	79 Bromoform	50.0	60.6	121.14	77-138
	80 Isopropylbenzene	50.0	52.0	104.05	88-125
	87 1,1,2,2-Tetrachlor	50.0	57.1	114.30	81-131
	96 1,3-Dichlorobenzen	50.0	53.9	107.81	86-124
	98 1,4-Dichlorobenzen	50.0	56.6	113.23	80-127
	101 1,2-Dichlorobenzen	50.0	54.3	108.57	86-126
	102 1,2-Dibromo-3-Chlo	50.0	60.1	120.27	61-136
	105 1,2,4-Trichloroben	50.0	53.9	107.84	53-157
M	32 1,2-Dichloroethyle	100	100	100.24	84-131
M	75 Xylenes (total)	150	167	111.38	88-123

	SURROGATE COMPOUND	AMOUNT ADDED ug/kg	AMOUNT RECOVERED ug/kg	% RECOVERED	LIMITS
$	39 Dibromofluorometha	50.0	51.0	102.03	69-148
$	47 1,2-Dichloroethane	50.0	52.3	104.53	66-149
$	60 Toluene-D8	50.0	49.5	99.00	68-147
$	81 P-Bromofluorobenze	50.0	49.5	98.99	64-152

Katahdin Analytical Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: WG1303-2
Operator : JEY
Sample Location:
Sample Matrix: SOIL
Analysis Type: VOA
Inj Date: 12-DEC-2002 16:14

Client SDG: SDGa01348
Client Smp ID: WG1303-LCS
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

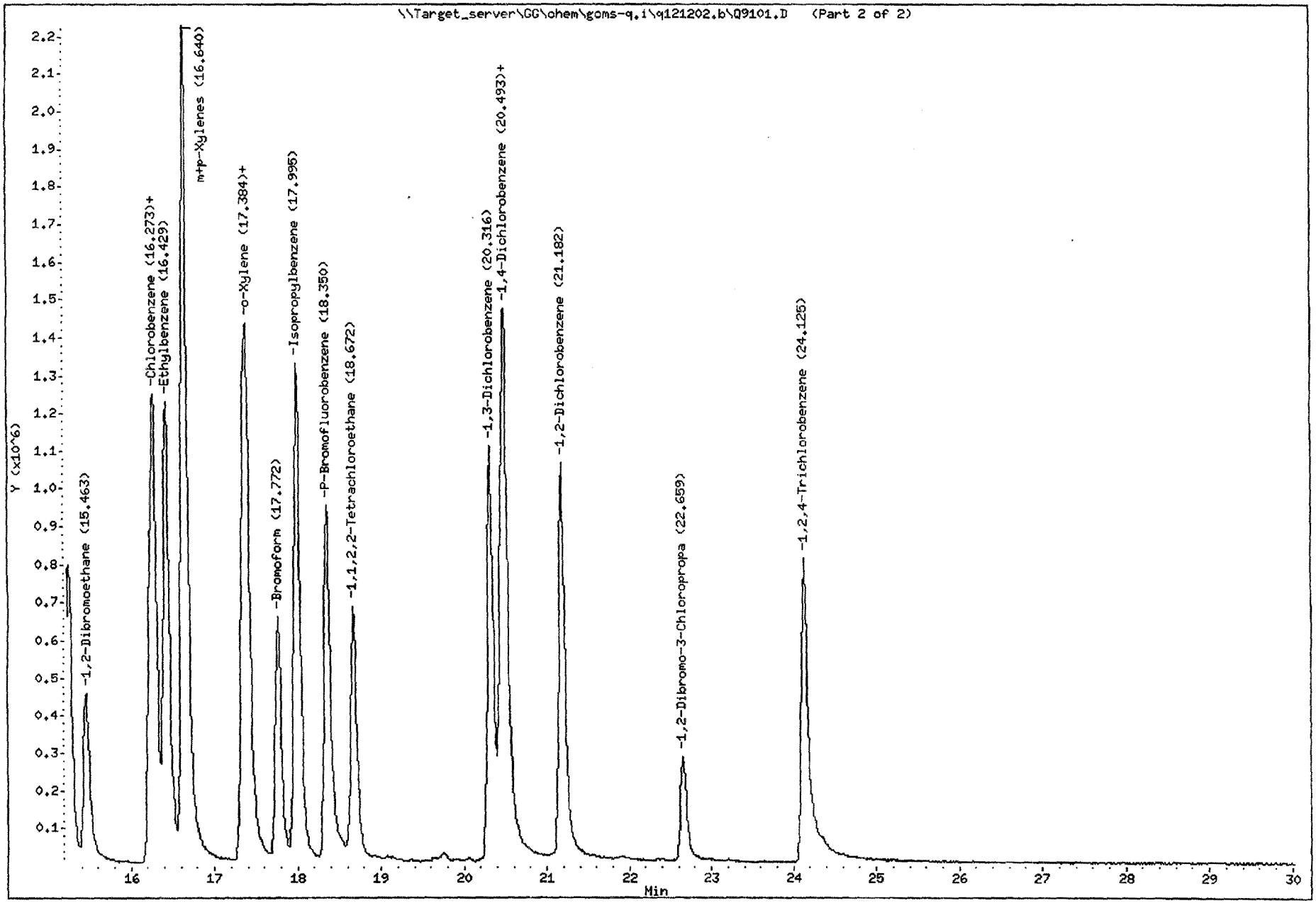
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9101.D
Date : 12-DEC-2002 16:14
Client ID: WG1303-LCS
Sample Info: WG1303-2

Instrument: gcms-q.i

Katahdin Analytical Services 1000080

Data File: \\Target_server\GC\chem\gcms-q.i\q121202.b\Q9101.D
Date : 12-DEC-2002 16:14
Client ID: WG1303-LCS
Sample Info: WG1303-2
Instrument: gcms-q.i



Katahdin Analytical Services 1000081

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

DATE OF BFB INJECTION: 121202

VOA INJ LOG INSTRUMENT: 5970-Q

NOTEBOOK NO:

CLIENT	JOB	SAMPLE	DATAFILE	DF	ALS #	TYPE	MS/MSD	PH (CLP)	CHEMIST	COMMENTS
		50NGBFB	QB277	1	-1	Time	—	—	JCF	
	VSTD	050Q2A	Q9094	1	10	8260 ocm	—	—		
		020	95	1	11	4.2 sc	—	—		
		010	96	1	12		—	—		
		005	97	1	13		—	—		
		200	98	1	14		—	—		
		100	Q9099	1	15		—	—		
		VSTD	Q9100	1	10		—	—		
		LCSQ12A	Q9101	1	10		—	—		
		LCSQ12B	02	1	11		—	—		
		VBLKQ12A	03	1	12		—	—		
		VBLKQ12B	04	1	13		—	—		
4.66s	WS4555	-7A	05	1	14		—	—		
4.35g		-7B	06	1	15		—	—		

STANDARD	CODE
BFB	VOA 112502P67:28:C
CAL. STD.	VOA121202 P78:28:A
LCS/MS MIX	—
IS/SS MIX IS	VOA120902 P76:28:A
SS	B

REVIEWED AND APPROVED BY:

DATE:

QAMS216

Katahdin Analytical Services 1000083

0000030

CTO 162
SDGWS455

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL
% Solids: 83.5

Lab ID: WS4555-7
Client ID: JAX-47-IDW-SS1
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	6	1.0	5	6	0.7
74-87-3	Chloromethane	U	6	1.0	5	6	1
75-01-4	Vinyl chloride	U	6	1.0	5	6	0.8
74-83-9	Bromomethane	U	6	1.0	5	6	1
75-00-3	Chloroethane	U	6	1.0	5	6	0.9
75-69-4	Trichlorofluoromethane	U	6	1.0	5	6	0.8
76-13-1	Freon-113	U	6	1.0	5	6	1
75-35-4	1,1-Dichloroethene	U	6	1.0	5	6	2
67-64-1	Acetone	U	26	1.0	20	26	8
75-15-0	Carbon Disulfide	U	6	1.0	5	6	0.8
75-09-2	Methylene Chloride	U	6	1.0	5	6	3
156-60-5	trans-1,2-Dichloroethene	U	6	1.0	5	6	1.0
1634-04-4	Methyl tert-butyl ether	U	6	1.0	5	6	1
79-20-9	Methyl Acetate	U	6	1.0	5	6	0.00
75-34-3	1,1-Dichloroethane	U	6	1.0	5	6	0.8
156-59-2	cis-1,2-Dichloroethene	U	6	1.0	5	6	0.8
78-93-3	2-Butanone	U	26	1.0	20	26	7
67-66-3	Chloroform	U	6	1.0	5	6	0.7
71-55-6	1,1,1-Trichloroethane	U	6	1.0	5	6	0.7
56-23-5	Carbon Tetrachloride	U	6	1.0	5	6	0.9
71-43-2	Benzene	U	6	1.0	5	6	0.9
1735-17-7	Cyclohexane	U	6	1.0	5	6	0.5
107-06-2	1,2-Dichloroethane	U	6	1.0	5	6	2
79-01-6	Trichloroethene	U	6	1.0	5	6	2
	Methylcyclohexane	U	6	1.0	5	6	0.00
78-87-5	1,2-Dichloropropane	U	6	1.0	5	6	3
75-27-4	Bromodichloromethane	U	6	1.0	5	6	1
10061-01-5	cis-1,3-dichloropropene	U	6	1.0	5	6	3
108-10-1	4-methyl-2-pentanone	U	26	1.0	20	26	16
108-88-3	Toluene	U	6	1.0	5	6	2
10061-02-6	trans-1,3-Dichloropropene	U	6	1.0	5	6	2
79-00-5	1,1,2-Trichloroethane	U	6	1.0	5	6	2
127-18-4	Tetrachloroethene	U	6	1.0	5	6	1
591-78-6	2-Hexanone	U	26	1.0	20	26	8
124-48-1	Dibromochloromethane	U	6	1.0	5	6	2
106-93-4	1,2-Dibromoethane	U	6	1.0	5	6	2
108-90-7	Chlorobenzene	U	6	1.0	5	6	1
100-41-4	Ethylbenzene	U	6	1.0	5	6	0.8
	m+p-Xylenes	U	6	1.0	5	6	2
95-47-6	o-Xylene	U	6	1.0	5	6	1.0
100-42-5	Styrene	U	6	1.0	5	6	0.7
75-25-2	Bromoform	U	6	1.0	5	6	1
98-82-8	Isopropylbenzene	U	6	1.0	5	6	3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL
% Solids: 83.5

Lab ID: WS4555-7
Client ID: JAX-47-IDW-SS1
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	6	1.0	5	6	3
541-73-1	1,3-Dichlorobenzene	U	6	1.0	5	6	1
106-46-7	1,4-Dichlorobenzene	U	6	1.0	5	6	1
95-50-1	1,2-Dichlorobenzene	U	6	1.0	5	6	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	U	6	1.0	5	6	2
120-82-1	1,2,4-Trichlorobenzene	U	6	1.0	5	6	1
540-59-0	1,2-Dichloroethylene (total)	U	6	1.0	5	6	3
1330-20-7	Xylenes (total)	U	6	1.0	5	6	3
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		87%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date:
Received Date:
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL
% Solids: 100

Lab ID: WG1303-1
Client ID: WG1303-BLANK
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.6
74-87-3	Chloromethane	U	5	1.0	5	5	1.0
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.6
74-83-9	Bromomethane	U	5	1.0	5	5	1
75-00-3	Chloroethane	U	5	1.0	5	5	0.7
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.6
76-13-1	Freon-113	U	5	1.0	5	5	1
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	1
67-64-1	Acetone	U	20	1.0	20	20	6
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.7
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.8
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.9
79-20-9	Methyl Acetate	U	5	1.0	5	5	0.00
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.6
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.6
78-93-3	2-Butanone	U	20	1.0	20	20	6
67-66-3	Chloroform	U	5	1.0	5	5	0.6
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.6
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.7
71-43-2	Benzene	U	5	1.0	5	5	0.7
1735-17-7	Cyclohexane	U	5	1.0	5	5	0.4
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	2
79-01-6	Trichloroethene	U	5	1.0	5	5	1
	Methylcyclohexane	U	5	1.0	5	5	0.00
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	1
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	2
108-10-1	4-methyl-2-pentanone	U	20	1.0	20	20	12
108-88-3	Toluene	U	5	1.0	5	5	2
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	2
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	1
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.9
591-78-6	2-Hexanone	U	20	1.0	20	20	6
124-48-1	Dibromochloromethane	U	5	1.0	5	5	1
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.8
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.6
	m+p-Xylenes	U	5	1.0	5	5	1
95-47-6	o-Xylene	U	5	1.0	5	5	0.7
100-42-5	Styrene	U	5	1.0	5	5	0.6
75-25-2	Bromoform	U	5	1.0	5	5	1
98-82-8	Isopropylbenzene	U	5	1.0	5	5	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date:
Received Date:
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL
% Solids: 100

Lab ID: WG1303-1
Client ID: WG1303-BLANK
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	2
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.9
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.9
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.8
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	1
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	0.9
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	2
1330-20-7	Xylenes (total)	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		107%				
460-00-4	P-Bromofluorobenzene		107%				

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG1303-LCS	WG1303-2	102	104	99	99	0
02	WG1303-BLANK	WG1303-1	104	102	107	107	0
03	JAX-47-IDW-SS1	WS4555-7	94	87	95	94	0
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

	QC LIMITS
SMC1 (DBF) = Dibromofluoromethane	(69-148)
SMC2 (DCA) = 1,2-Dichloroethane-D4	(66-149)
SMC3 (TOL) = Toluene-D8	(68-147)
SMC4 (BFB) = P-Bromofluorobenzene	(64-152)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date:
Received Date:
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL

Lab ID: WG1303-2
Client ID: WG1303-LCS
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	44	87	4-217
Chloromethane	50	NA	49	98	40-163
Vinyl chloride	50	NA	44	88	55-151
Bromomethane	50	NA	48	96	24-217
Chloroethane	50	NA	45	91	69-134
Trichlorofluoromethane	50	NA	46	91	71-147
Freon-113	50	NA	49	98	60-140
1,1-Dichloroethene	50	NA	49	98	78-136
Acetone	50	NA	50	100	0-158
Carbon Disulfide	50	NA	49	99	70-136
Methylene Chloride	50	NA	53	106	52-115
trans-1,2-Dichloroethene	50	NA	48	97	84-131
Methyl tert-butyl ether	50	NA	58	117	62-130
Methyl Acetate	50	NA	55	109	60-140
1,1-Dichloroethane	50	NA	50	101	81-134
cis-1,2-Dichloroethene	50	NA	52	104	84-123
2-Butanone	50	NA	55	109	49-154
Chloroform	50	NA	51	102	80-130
1,1,1-Trichloroethane	50	NA	50	101	76-138
Carbon Tetrachloride	50	NA	59	118	74-137
Benzene	50	NA	50	99	88-120
Cyclohexane	50	NA	50	100	60-140
1,2-Dichloroethane	50	NA	54	108	78-138
Trichloroethene	50	NA	50	100	80-125
Methylcyclohexane	50	NA	48	97	60-140
1,2-Dichloropropane	50	NA	52	103	80-122
Bromodichloromethane	50	NA	54	107	83-133
cis-1,3-dichloropropene	50	NA	56	111	81-138
4-methyl-2-pentanone	50	NA	69	138	72-140
Toluene	50	NA	50	100	88-121
trans-1,3-Dichloropropene	50	NA	57	115	81-149
1,1,2-Trichloroethane	50	NA	55	110	82-126
Tetrachloroethene	50	NA	52	104	77-129
2-Hexanone	50	NA	71	142	45-146
Dibromochloromethane	50	NA	58	116	80-133
1,2-Dibromoethane	50	NA	56	111	88-127
Chlorobenzene	50	NA	52	105	84-123
Ethylbenzene	50	NA	52	104	84-131
m+p-Xylenes	100	NA	114	114	88-122
o-Xylene	50	NA	53	106	90-123
Styrene	50	NA	54	109	87-131
Bromoform	50	NA	61	121	77-138
Isopropylbenzene	50	NA	52	104	88-125
1,1,2,2-Tetrachloroethane	50	NA	57	114	81-131
1,3-Dichlorobenzene	50	NA	54	108	86-124

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date:
Received Date:
Extraction Date: 12/12/02
Analysis Date: 12/12/02
Report Date: 12/13/2002
Matrix: SOIL

Lab ID: WG1303-2
Client ID: WG1303-LCS
SDG: WS4555
Extracted by: JEY
Extraction Method: SW846 5035
Analyst: JEY
Analysis Method: SW846 8260B
Lab Prep Batch: WG1303
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,4-Dichlorobenzene	50	NA	57	113	80-127
1,2-Dichlorobenzene	50	NA	54	109	86-126
1,2-Dibromo-3-Chloropropane	50	NA	60	120	61-136
1,2,4-Trichlorobenzene	50	NA	54	108	53-157
1,2-Dichloroethylene (total)	100	NA	100	100	84-131
Xylenes (total)	150	NA	167	111	88-123

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG1303-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVI Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab File ID: Q9104 Lab Sample ID: WG1303-1

Date Analyzed: 12/12/02 Time Analyzed: 1807

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS-Q

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG1303-LCS	WG1303-2	Q9101	12/12/02	1614
02	JAX-47-IDW-SS1	WS4555-7	Q9105	12/12/02	1844
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab File ID: QB277 BFB Injection Date: 12/12/02

Instrument ID: GCMS-Q BFB Injection Time: 1043

GC Column: RTX-502 ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	45.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	88.4
175	4.0 - 9.0% of mass 174	7.7 (8.7)1
176	95.0 - 101.0% of mass 174	84.7 (95.8)1
177	5.0 - 9.0% of mass 176	5.8 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD020Q12A	Q9095	12/12/02	1149
02		VSTD010Q12A	Q9096	12/12/02	1226
03		VSTD005Q12A	Q9097	12/12/02	1304
04		VSTD100Q12A	Q9098	12/12/02	1341
05		VSTD200Q12A	Q9099	12/12/02	1418
06		VSTD050Q12B	Q9100	12/12/02	1527
07	WG1303-LCS	WG1303-2	Q9101	12/12/02	1614
08	WG1303-BLANK	WG1303-1	Q9104	12/12/02	1807
09	JAX-47-IDW-SS1	WS4555-7	Q9105	12/12/02	1844
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GCMS-Q Calibration Date(s): 12/12/02 12/12/02

Column: RTX-624 ID: 0.18 (mm) Calibration Time(s): 1149 1527

LAB FILE ID: RF5: Q9097 RF10: Q9096 RF20: Q9095
RF50: Q9100 RF100: Q9099 RF200: Q9098

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
Dichlorodifluoromethane	0.690	0.658	0.713	0.596	0.542	0.584	AVRG		0.63053	10.550	15.000	
Chloromethane	53641	100760	230080	420800	727430	1403900	LINR	-1e-001	4.29831	0.99702	0.99000	
Vinyl chloride	0.298	0.290	0.318	0.275	0.254	0.270	AVRG		0.28436	8.019	15.000	
Bromomethane	0.158	0.149	0.118	0.175	0.181	0.154	AVRG		0.15597	14.190	15.000	
Chloroethane	0.237	0.213	0.235	0.198	0.177	0.174	AVRG		0.20576	13.316	15.000	
Trichlorofluoromethane	0.771	0.784	0.863	0.747	0.682	0.714	AVRG		0.76025	8.243	15.000	
Freon-113	0.696	0.665	0.719	0.662	0.548	0.562	AVRG		0.64201	11.030	15.000	
1,1-Dichloroethene	0.410	0.363	0.426	0.389	0.309	0.316	AVRG		0.36879	13.130	15.000	
Acetone	0.101	0.067	0.009	0.054	0.036	0.040	AVRG		5e-002	60.723	15.000	<-
Carbon Disulfide	0.787	0.803	0.939	0.882	0.724	0.770	AVRG		0.81759	9.643	15.000	
Methylene Chloride	98050	179030	304820	620730	996830	1865300	LINR	-0.1796	3.28737	0.99816	0.99000	
trans-1,2-Dichloroethene	0.458	0.446	0.524	0.482	0.379	0.394	AVRG		0.44701	12.102	15.000	
Methyl tert-butyl ether	0.537	0.488	0.548	0.572	0.466	0.488	AVRG		0.51658	8.008	15.000	
Methyl Acetate	32021	38674	71229	309890	482490	1013700	LINR	6e-002	5.74226	0.99366	0.99000	
1,1-Dichloroethane	0.703	0.647	0.742	0.668	0.548	0.577	AVRG		0.64762	11.409	15.000	
cis-1,2-Dichloroethene	0.431	0.422	0.494	0.451	0.365	0.384	AVRG		0.42449	10.934	15.000	
2-Butanone	0.104	0.078	0.012	0.073	0.050	0.057	AVRG		6e-002	49.502	15.000	<-
Chloroform	0.913	0.832	0.908	0.829	0.657	0.691	AVRG		0.80518	13.422	15.000	
1,1,1-Trichloroethane	0.791	0.770	0.877	0.813	0.636	0.646	AVRG		0.75569	12.654	15.000	
Carbon Tetrachloride	196870	302540	601870	1236100	1891300	3438800	LINR	-0.2407	1.72291	0.99632	0.99000	
Benzene	1.310	1.120	1.327	1.246	0.979	0.980	AVRG		1.16026	13.602	15.000	
Cyclohexane	0.580	0.553	0.567	0.555	0.448	0.468	AVRG		0.52849	10.537	15.000	
1,2-Dichloroethane	0.521	0.450	0.523	0.531	0.433	0.436	AVRG		0.48257	9.813	15.000	
Trichloroethene	0.551	0.512	0.580	0.548	0.427	0.431	AVRG		0.50795	12.779	15.000	
Methylcyclohexane	0.750	0.658	0.727	0.688	0.554	0.564	AVRG		0.65691	12.502	15.000	
1,2-Dichloropropane	0.396	0.349	0.401	0.390	0.309	0.316	AVRG		0.36004	11.526	15.000	
Bromodichloromethane	0.765	0.684	0.820	0.817	0.643	0.664	AVRG		0.73220	10.725	15.000	
cis-1,3-dichloropropene	0.539	0.555	0.636	0.684	0.540	0.570	AVRG		0.58742	10.050	15.000	
4-methyl-2-pentanone	0.464	0.331	0.080	0.496	0.361	0.380	AVRG		0.35195	41.837	15.000	<-
Toluene	0.972	0.879	1.019	0.978	0.744	0.752	AVRG		0.89052	13.433	15.000	
trans-1,3-Dichloropropene	0.409	0.432	0.497	0.552	0.445	0.486	AVRG		0.47038	11.120	15.000	
1,1,2-Trichloroethane	0.333	0.274	0.324	0.342	0.271	0.278	AVRG		0.30373	10.722	15.000	
Tetrachloroethene	0.895	0.777	0.877	0.899	0.667	0.674	AVRG		0.79835	13.583	15.000	
2-Hexanone	0.516	0.420	0.098	0.602	0.406	0.450	AVRG		0.41510	41.336	15.000	<-
Dibromochloromethane	0.954	0.807	0.956	1.081	0.847	0.875	AVRG		0.91986	10.693	15.000	
1,2-Dibromoethane	0.592	0.507	0.607	0.639	0.523	0.536	AVRG		0.56761	9.304	15.000	
Chlorobenzene	1.729	1.461	1.599	1.624	1.244	1.303	AVRG		1.49346	12.833	15.000	
Ethylbenzene	2.568	2.167	2.221	2.446	1.880	1.956	AVRG		2.20617	12.147	15.000	
m+p-Xylenes	0.909	0.809	0.961	0.916	0.702	0.692	AVRG		0.83151	13.880	15.000	
o-Xylene	0.959	0.845	0.936	0.962	0.728	0.752	AVRG		0.86378	12.152	15.000	
Styrene	1.159	1.094	1.251	1.297	1.005	1.047	AVRG		1.14226	10.076	15.000	
Bromoform	0.646	0.586	0.697	0.862	0.683	0.722	AVRG		0.69937	13.250	15.000	
Isopropylbenzene	5.208	4.307	4.805	4.898	3.714	3.746	AVRG		4.44636	14.076	15.000	
1,1,2,2-Tetrachloroethane	1.553	1.145	1.262	1.424	1.145	1.180	AVRG		1.28494	13.112	15.000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GCMS-Q Calibration Date(s): 12/12/02 12/12/02

Column: RTX-624 ID: 0.18 (mm) Calibration Time(s): 1149 1527

LAB FILE ID: RF5: Q9097 RF10: Q9096 RF20: Q9095
RF50: Q9100 RF100: Q9099 RF200: Q9098

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
1,3-Dichlorobenzene	2.635	2.165	2.335	2.450	1.868	1.962	AVRG		2.23563	13.133	15.000	
1,4-Dichlorobenzene	162180	341090	724340	1889400	2785500	5461300	LINR	-0.1091	0.47510	0.99430	0.99000	
1,2-Dichlorobenzene	2.429	2.044	2.248	2.397	1.827	1.881	AVRG		2.13761	12.122	15.000	
1,2-Dibromo-3-Chloropropane	0.231	0.189	0.228	0.274	0.242	0.275	AVRG		0.24004	13.488	15.000	
1,2,4-Trichlorobenzene	1.684	1.462	1.445	1.712	1.331	1.382	AVRG		1.50266	10.552	15.000	
1,2-Dichloroethylene (total)							AVRG				0.000	<-
Xylenes (total)							AVRG				0.000	<-
Dibromofluoromethane	0.691	0.660	0.659	0.658	0.602	0.603	AVRG		0.64552	5.513	15.000	
1,2-Dichloroethane-D4	0.377	0.356	0.378	0.358	0.360	0.370	AVRG		0.36645	2.690	15.000	
Toluene-D8	1.306	1.155	1.167	1.234	1.094	1.112	AVRG		1.17798	6.734	15.000	
P-Bromofluorobenzene	0.818	0.710	0.684	0.749	0.665	0.689	AVRG		0.71913	7.806	15.000	

Average %RSD test result.

Calculate Average %RSD: 15.45870495
Maximum Average %RSD: 15.00000000

Note: Failed Average %RSD Test.

FORM VI VOA

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GCMS-Q Calibration Date: 12/12/02 Time: 1527

Lab File ID: Q9100 Init. Calib. Date(s): 12/12/02 12/12/02

Init. Calib. Times: 1149 1527

GC Column: RTX-624 ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Dichlorodifluoromethane	0.6300000	0.5958700	0.5958700	0.01	-5.42		AVRG
Chloromethane	49.874000	50.000000	0.2552000	0.1	-0.25		LINR
Vinyl chloride	0.2840000	0.2747200	0.2747200	0.01	-3.27	20.00	AVRG
Bromomethane	0.1560000	0.1747000	0.1747000	0.01	11.99		AVRG
Chloroethane	0.2060000	0.1980300	0.1980300	0.01	-3.87		AVRG
Trichlorofluoromethane	0.7600000	0.7469700	0.7469700	0.01	-1.71		AVRG
Freon-113	0.6420000	0.6616800	0.6616800	0.01	3.06		AVRG
1,1-Dichloroethene	0.3690000	0.3891200	0.3891200	0.1	5.45	20.00	AVRG
Acetone	5.1e-002	5.46e-002	5.46e-002	0.01	7.06		AVRG
Carbon Disulfide	0.8180000	0.8818000	0.8818000	0.01	7.80		AVRG
Methylene Chloride	52.905000	50.000000	0.3765000	0.01	5.81		LINR
trans-1,2-Dichloroethene	0.4470000	0.4818200	0.4818200	0.01	7.79		AVRG
Methyl tert-butyl ether	0.5160000	0.5717900	0.5717900	0.01	10.81		AVRG
Methyl Acetate	57.218000	50.000000	0.1880000	0.01	14.44		LINR
1,1-Dichloroethane	0.6480000	0.6680300	0.6680300	0.01	3.09		AVRG
cis-1,2-Dichloroethene	0.4240000	0.4515000	0.4515000	0.01	6.48		AVRG
2-Butanone	6.2e-002	7.28e-002	7.28e-002	0.01	17.42		AVRG
Chloroform	0.8050000	0.8287000	0.8287000	0.01	2.94	20.00	AVRG
1,1,1-Trichloroethane	0.7560000	0.8128000	0.8128000	0.01	7.51		AVRG
Carbon Tetrachloride	58.083000	50.000000	0.8139000	0.01	16.17		LINR
Benzene	1.1600000	1.2460000	1.2460000	0.01	7.41		AVRG
Cyclohexane	0.5280000	0.5553000	0.5553000	0.01	5.17		AVRG
1,2-Dichloroethane	0.4820000	0.5313000	0.5313000	0.01	10.23		AVRG
Trichloroethene	0.5080000	0.5475000	0.5475000	0.01	7.78		AVRG
Methylcyclohexane	0.6570000	0.6885000	0.6885000	0.01	4.79		AVRG
1,2-Dichloropropane	0.3600000	0.3899000	0.3899000	0.01	8.30	20.00	AVRG
Bromodichloromethane	0.7320000	0.8174000	0.8174000	0.01	11.67		AVRG
cis-1,3-dichloropropene	0.5870000	0.6836000	0.6836000	0.01	16.46		AVRG
4-methyl-2-pentanone	0.3520000	0.4962000	0.4962000	0.01	40.97		AVRG

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GCMS-Q Calibration Date: 12/12/02 Time: 1527

Lab File ID: Q9100 Init. Calib. Date(s): 12/12/02 12/12/02

Init. Calib. Times: 1149 1527

GC Column: RTX-624 ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Toluene	0.8910000	0.9775000	0.9775000	0.01	9.71	20.00	AVRG	
trans-1,3-Dichloropropene	0.4700000	0.5526000	0.5526000	0.01	17.57		AVRG	
1,1,2-Trichloroethane	0.3040000	0.3416000	0.3416000	0.01	12.37		AVRG	
Tetrachloroethene	0.7980000	0.8991000	0.8991000	0.01	12.67		AVRG	
2-Hexanone	0.4150000	0.6021000	0.6021000	0.01	45.08		AVRG	
Dibromochloromethane	0.9200000	1.0810000	1.0810000	0.01	17.50		AVRG	
1,2-Dibromoethane	0.5670000	0.6394000	0.6394000	0.01	12.77		AVRG	
Chlorobenzene	1.4930000	1.6250000	1.6250000	0.3	8.84		AVRG	
Ethylbenzene	2.2060000	2.4460000	2.4460000	0.01	10.88	20.00	AVRG	
m+p-Xylenes	0.8320000	0.9160000	0.9160000	0.01	10.10		AVRG	
o-Xylene	0.8640000	0.9622000	0.9622000	0.01	11.37		AVRG	
Styrene	1.1420000	1.2970000	1.2970000	0.01	13.57		AVRG	
Bromoform	0.6990000	0.8616000	0.8616000	0.1	23.26		AVRG	
Isopropylbenzene	4.4460000	4.8980000	4.8980000	0.01	10.17		AVRG	
1,1,2,2-Tetrachloroethane	1.2850000	1.4244000	1.4244000	0.3	10.85		AVRG	
1,3-Dichlorobenzene	2.2360000	2.4500000	2.4500000	0.01	9.57		AVRG	
1,4-Dichlorobenzene	61.473000	50.000000	2.8170000	0.01	22.95		LINR	
1,2-Dichlorobenzene	2.1380000	2.3966000	2.3966000	0.01	12.10		AVRG	
1,2-Dibromo-3-Chloropropane	0.2400000	0.2741200	0.2741200	0.01	14.22		AVRG	
1,2,4-Trichlorobenzene	1.5030000	1.7120000	1.7120000	0.01	13.91		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.9333000	0.9333000	0.01	0.00		AVRG	<-
Xylenes (total)	0.0000000	0.9314000	0.9314000	0.01	0.00		AVRG	<-
Dibromofluoromethane	0.6460000	0.6579000	0.6579000	0.01	1.84		AVRG	
1,2-Dichloroethane-D4	0.3660000	0.3581000	0.3581000	0.01	-2.16		AVRG	
Toluene-D8	1.1780000	1.2340000	1.2340000	0.01	4.75		AVRG	
P-Bromofluorobenzene	0.7190000	0.7490000	0.7490000	0.01	4.17		AVRG	

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab File ID (Standard): Q9100 Date Analyzed: 12/12/02

Instrument ID: GCMS-Q Time Analyzed: 1527

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD		1648692	10.01	1518626	11.24	1159829	16.22
UPPER LIMIT		3297384	10.51	3037252	11.74	2319658	16.72
LOWER LIMIT		824346	9.51	759313	10.74	579915	15.72
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1303-LCS	WG1303-2	1574691	10.03	1501770	11.24	1111197	16.23
02	WG1303-BLANK	WG1303-1	1499816	10.06	1375267	11.29	1059151	16.24
03	JAX-47-IDW-SS1	WS4555-7	1509750	10.04	1411416	11.26	1037099	16.23
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab File ID (Standard): Q9100 Date Analyzed: 12/12/02

Instrument ID: GCMS-Q Time Analyzed: 1527

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

			IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD		670602	20.43				
	UPPER LIMIT		1341204	20.93				
	LOWER LIMIT		335301	19.93				
	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG1303-LCS	WG1303-2	635616	20.46				
02	WG1303-BLANK	WG1303-1	580062	20.44				
03	JAX-47-IDW-SS1	WS4555-7	550435	20.43				
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 79.1

Lab ID: WS4555-1
Client ID: JAX-47-SB57-S01
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.1	1.0	1.7	2.1	0.86
58-89-9	gamma BHC	U	2.1	1.0	1.7	2.1	0.74
76-44-8	Heptachlor	U	2.1	1.0	1.7	2.1	0.70
319-85-7	beta-BHC	U	2.1	1.0	1.7	2.1	1.3
309-00-2	Aldrin	U	2.1	1.0	1.7	2.1	0.71
319-86-8	delta-BHC	U	2.1	1.0	1.7	2.1	0.73
1024-57-3	Heptachlor Epoxide	U	2.1	1.0	1.7	2.1	0.82
959-98-8	Endosulfan I	U	2.1	1.0	1.7	2.1	0.77
72-55-9	4,4'-DDE	J	1.6	1.0	3.3	4.2	0.78
60-57-1	Dieldrin	U	4.2	1.0	3.3	4.2	0.76
72-20-8	Endrin	U	4.2	1.0	3.3	4.2	0.72
72-54-8	4,4'-DDD	J	1.5	1.0	3.3	4.2	0.78
33213-65-9	Endosulfan II	U	4.2	1.0	3.3	4.2	0.72
50-29-3	4,4'-DDT		55	1.0	3.3	4.2	0.70
7421-36-3	Endrin Aldehyde	U	4.2	1.0	3.3	4.2	0.85
1031-07-8	Endosulfan sulfate	U	4.2	1.0	3.3	4.2	0.87
72-43-5	Methoxychlor	U	21	1.0	17	21	1.3
8001-35-2	Toxaphene	U	42	1.0	33	42	15
5103-71-9	alpha-Chlordane	U	2.1	1.0	1.7	2.1	0.87
5103-74-2	gamma-Chlordane	U	2.1	1.0	1.7	2.1	0.80
53494-70-5	Endrin Ketone	U	4.2	1.0	3.3	4.2	0.92
877-09-8	Tetrachloro-m-Xylene		88%				
2051-24-3	Decachlorobiphenyl		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 74.9

Lab ID: WS4555-2
Client ID: JAX-47-SB58-S01
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2300	1000	1.7	2300	910
58-89-9	gamma BHC	U	2300	1000	1.7	2300	790
76-44-8	Heptachlor	U	2300	1000	1.7	2300	730
319-85-7	beta-BHC	U	2300	1000	1.7	2300	1400
309-00-2	Aldrin	U	2300	1000	1.7	2300	750
319-86-8	delta-BHC	U	2300	1000	1.7	2300	770
1024-57-3	Heptachlor Epoxide	U	2300	1000	1.7	2300	870
959-98-8	Endosulfan I	U	2300	1000	1.7	2300	810
72-55-9	4,4'-DDE	J	2200	1000	3.3	4400	830
60-57-1	Dieldrin	U	4400	1000	3.3	4400	800
72-20-8	Endrin	U	4400	1000	3.3	4400	760
72-54-8	4,4'-DDD	J	2400	1000	3.3	4400	830
33213-65-9	Endosulfan II	U	4400	1000	3.3	4400	760
50-29-3	4,4'-DDT		53000	1000	3.3	4400	730
7421-36-3	Endrin Aldehyde	U	4400	1000	3.3	4400	890
1031-07-8	Endosulfan sulfate	U	4400	1000	3.3	4400	920
72-43-5	Methoxychlor	U	23000	1000	17	23000	1400
8001-35-2	Toxaphene	U	44000	1000	33	44000	16000
5103-71-9	alpha-Chlordane	U	2300	1000	1.7	2300	920
5103-74-2	gamma-Chlordane	U	2300	1000	1.7	2300	840
53494-70-5	Endrin Ketone	U	4400	1000	3.3	4400	970
877-09-8	Tetrachloro-m-Xylene		D				
2051-24-3	Decachlorobiphenyl		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 89.4

Lab ID: WS4555-3
Client ID: JAX-47-SB56-S02
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.76
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.66
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.62
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	1.1
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	0.63
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	0.65
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.73
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.68
72-55-9	4,4'-DDE	U	3.7	1.0	3.3	3.7	0.69
60-57-1	Dieldrin	U	3.7	1.0	3.3	3.7	0.67
72-20-8	Endrin	U	3.7	1.0	3.3	3.7	0.64
72-54-8	4,4'-DDD	U	3.7	1.0	3.3	3.7	0.69
33213-65-9	Endosulfan II	U	3.7	1.0	3.3	3.7	0.64
50-29-3	4,4'-DDT	J	1.0	1.0	3.3	3.7	0.62
7421-36-3	Endrin Aldehyde	U	3.7	1.0	3.3	3.7	0.75
1031-07-8	Endosulfan sulfate	U	3.7	1.0	3.3	3.7	0.77
72-43-5	Methoxychlor	U	19	1.0	17	19	1.1
8001-35-2	Toxaphene	U	37	1.0	33	37	13
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	0.77
5103-74-2	gamma-Chlordane	U	1.9	1.0	1.7	1.9	0.70
53494-70-5	Endrin Ketone	U	3.7	1.0	3.3	3.7	0.82
877-09-8	Tetrachloro-m-Xylene		92%				
2051-24-3	Decachlorobiphenyl		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 80.0

Lab ID: WS4555-4
Client ID: JAX-47-SB16-S02
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.1	1.0	1.7	2.1	0.85
58-89-9	gamma BHC	U	2.1	1.0	1.7	2.1	0.74
76-44-8	Heptachlor	U	2.1	1.0	1.7	2.1	0.69
319-85-7	beta-BHC	U	2.1	1.0	1.7	2.1	1.3
309-00-2	Aldrin	U	2.1	1.0	1.7	2.1	0.70
319-86-8	delta-BHC	U	2.1	1.0	1.7	2.1	0.72
1024-57-3	Heptachlor Epoxide	U	2.1	1.0	1.7	2.1	0.81
959-98-8	Endosulfan I	U	2.1	1.0	1.7	2.1	0.76
72-55-9	4,4'-DDE	J	3.0	1.0	3.3	4.1	0.77
60-57-1	Dieldrin	J	0.81	1.0	3.3	4.1	0.75
72-20-8	Endrin	U	4.1	1.0	3.3	4.1	0.71
72-54-8	4,4'-DDD		4.1	1.0	3.3	4.1	0.77
33213-65-9	Endosulfan II	U	4.1	1.0	3.3	4.1	0.71
50-29-3	4,4'-DDT		5.1	1.0	3.3	4.1	0.69
7421-36-3	Endrin Aldehyde	U	4.1	1.0	3.3	4.1	0.84
1031-07-8	Endosulfan sulfate	U	4.1	1.0	3.3	4.1	0.86
72-43-5	Methoxychlor	U	21	1.0	17	21	1.3
8001-35-2	Toxaphene	U	41	1.0	33	41	14
5103-71-9	alpha-Chlordane	U	2.1	1.0	1.7	2.1	0.86
5103-74-2	gamma-Chlordane	U	2.1	1.0	1.7	2.1	0.79
53494-70-5	Endrin Ketone	U	4.1	1.0	3.3	4.1	0.91
877-09-8	Tetrachloro-m-Xylene		86%				
2051-24-3	Decachlorobiphenyl		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 91.5

Lab ID: WS4555-5
Client ID: JAX-47-SB56-S01
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.74
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.64
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.60
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	1.1
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	0.61
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	0.63
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.71
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.67
72-55-9	4,4'-DDE	U	3.6	1.0	3.3	3.6	0.68
60-57-1	Dieldrin	U	3.6	1.0	3.3	3.6	0.66
72-20-8	Endrin	U	3.6	1.0	3.3	3.6	0.62
72-54-8	4,4'-DDD	U	3.6	1.0	3.3	3.6	0.68
33213-65-9	Endosulfan II	U	3.6	1.0	3.3	3.6	0.62
50-29-3	4,4'-DDT	J	1.8	1.0	3.3	3.6	0.60
7421-36-3	Endrin Aldehyde	U	3.6	1.0	3.3	3.6	0.73
1031-07-8	Endosulfan sulfate	U	3.6	1.0	3.3	3.6	0.75
72-43-5	Methoxychlor	U	18	1.0	17	18	1.1
8001-35-2	Toxaphene	U	36	1.0	33	36	13
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	0.75
5103-74-2	gamma-Chlordane	U	1.8	1.0	1.7	1.8	0.69
53494-70-5	Endrin Ketone	U	3.6	1.0	3.3	3.6	0.80
877-09-8	Tetrachloro-m-Xylene		* 97%				
2051-24-3	Decachlorobiphenyl		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 90.5

Lab ID: WS4555-6
Client ID: JAX-47-SB55-S01
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.75
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.65
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.61
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	1.1
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	0.62
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	0.64
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.72
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.67
72-55-9	4,4'-DDE	J	2.7	1.0	3.3	3.6	0.68
60-57-1	Dieldrin	U	3.6	1.0	3.3	3.6	0.66
72-20-8	Endrin	U	3.6	1.0	3.3	3.6	0.63
72-54-8	4,4'-DDD	U	3.6	1.0	3.3	3.6	0.68
33213-65-9	Endosulfan II	U	3.6	1.0	3.3	3.6	0.63
50-29-3	4,4'-DDT		4.1	1.0	3.3	3.6	0.61
7421-36-3	Endrin Aldehyde	U	3.6	1.0	3.3	3.6	0.74
1031-07-8	Endosulfan sulfate	U	3.6	1.0	3.3	3.6	0.76
72-43-5	Methoxychlor	U	19	1.0	17	19	1.1
8001-35-2	Toxaphene	U	36	1.0	33	36	13
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	0.76
5103-74-2	gamma-Chlordane	U	1.9	1.0	1.7	1.9	0.70
53494-70-5	Endrin Ketone	U	3.6	1.0	3.3	3.6	0.81
877-09-8	Tetrachloro-m-Xylene		*101%				
2051-24-3	Decachlorobiphenyl		101%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 83.6

Lab ID: WS4555-7
Client ID: JAX-47-IDW-SS1
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.0	1.0	1.7	2.0	0.81
58-89-9	gamma BHC	U	2.0	1.0	1.7	2.0	0.71
76-44-8	Heptachlor	U	2.0	1.0	1.7	2.0	0.66
319-85-7	beta-BHC	U	2.0	1.0	1.7	2.0	1.2
309-00-2	Aldrin	U	2.0	1.0	1.7	2.0	0.67
319-86-8	delta-BHC	U	2.0	1.0	1.7	2.0	0.69
1024-57-3	Heptachlor Epoxide	U	2.0	1.0	1.7	2.0	0.78
959-98-8	Endosulfan I	U	2.0	1.0	1.7	2.0	0.73
72-55-9	4,4'-DDE	U	3.9	1.0	3.3	3.9	0.74
60-57-1	Dieldrin	U	3.9	1.0	3.3	3.9	0.72
72-20-8	Endrin	U	3.9	1.0	3.3	3.9	0.68
72-54-8	4,4'-DDD	U	3.9	1.0	3.3	3.9	0.74
33213-65-9	Endosulfan II	U	3.9	1.0	3.3	3.9	0.68
50-29-3	4,4'-DDT	U	3.9	1.0	3.3	3.9	0.66
7421-36-3	Endrin Aldehyde	U	3.9	1.0	3.3	3.9	0.80
1031-07-8	Endosulfan sulfate	U	3.9	1.0	3.3	3.9	0.82
72-43-5	Methoxychlor	U	20	1.0	17	20	1.2
8001-35-2	Toxaphene	U	39	1.0	33	39	14
5103-71-9	alpha-Chlordane	U	2.0	1.0	1.7	2.0	0.82
5103-74-2	gamma-Chlordane	U	2.0	1.0	1.7	2.0	0.75
53494-70-5	Endrin Ketone	U	3.9	1.0	3.3	3.9	0.87
877-09-8	Tetrachloro-m-Xylene		86%				
2051-24-3	Decachlorobiphenyl		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/12/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 100

Lab ID: WG1299-1
Client ID: WG1299-Blank
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.7	1.0	1.7	1.7	0.68
58-89-9	gamma BHC	U	1.7	1.0	1.7	1.7	0.59
76-44-8	Heptachlor	U	1.7	1.0	1.7	1.7	0.55
319-85-7	beta-BHC	U	1.7	1.0	1.7	1.7	1.0
309-00-2	Aldrin	U	1.7	1.0	1.7	1.7	0.56
319-86-8	delta-BHC	U	1.7	1.0	1.7	1.7	0.58
1024-57-3	Heptachlor Epoxide	U	1.7	1.0	1.7	1.7	0.65
959-98-8	Endosulfan I	U	1.7	1.0	1.7	1.7	0.61
72-55-9	4,4'-DDE	U	3.3	1.0	3.3	3.3	0.62
60-57-1	Dieldrin	U	3.3	1.0	3.3	3.3	0.60
72-20-8	Endrin	U	3.3	1.0	3.3	3.3	0.57
72-54-8	4,4'-DDD	U	3.3	1.0	3.3	3.3	0.62
33213-65-9	Endosulfan II	U	3.3	1.0	3.3	3.3	0.57
50-29-3	4,4'-DDT	U	3.3	1.0	3.3	3.3	0.55
7421-36-3	Endrin Aldehyde	U	3.3	1.0	3.3	3.3	0.67
1031-07-8	Endosulfan sulfate	U	3.3	1.0	3.3	3.3	0.69
72-43-5	Methoxychlor	U	17	1.0	17	17	1.0
8001-35-2	Toxaphene	U	33	1.0	33	33	12
5103-71-9	alpha-Chlordane	U	1.7	1.0	1.7	1.7	0.69
5103-74-2	gamma-Chlordane	U	1.7	1.0	1.7	1.7	0.63
53494-70-5	Endrin Ketone	U	3.3	1.0	3.3	3.3	0.73
877-09-8	Tetrachloro-m-Xylene		86%				
2051-24-3	Decachlorobiphenyl		102%				

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column(1): RTX-CLPI ID: 0.53 (mm) GC Column(2): RTX-CLPII ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG1299-BLANK	WG1299-1	86	84	102	97			0
02	WG1299-LCS	WG1299-2	82	82	102	96			0
03	WG1299-LCSD	WG1299-3	90	89	105	99			0
04	JAX-47-SB57-S01	WS4555-1	88	86	99	94			0
05	JAX-47-SB56-S02	WS4555-3	92	90	104	90			0
06	JAX-47-SB16-S02	WS4555-4	86	82	100	92			0
07	JAX-47-SB56-S01	WS4555-5	97*	95*	99	91			2
08	JAX-47-SB55-S01	WS4555-6	101*	97*	101	92			2
09	JAX-47-IDW-SS1	WS4555-7	86	81	91	84			0
10	JAX-47-SB58-S01	WS4555-2	D	D	D	D			0
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY QC LIMITS

S1 (TCX) = Tetrachloro-m-Xylene (45- 94)
S2 (DCB) = Decachlorobiphenyl (37-119)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/12/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL

Lab ID: WG1299-2 & WG1299-3
Client ID: WG1299-LCS & WG1299-LCSD
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
alpha-BHC	17	17	NA	16	17	94	*	104		10	50	59-101
gamma BHC	17	17	NA	16	18	99	*	108		9	50	63-101
Heptachlor	17	17	NA	17	18	100	*	109		8	50	62-106
beta-BHC	17	17	NA	19	20	* 112	*	118		5	50	70-106
Aldrin	17	17	NA	16	17	97	*	104		6	50	63-100
delta-BHC	17	17	NA	19	20	112		119		6	50	63-124
Heptachlor Epoxide	17	17	NA	18	19	* 107	*	114		6	50	72-102
Endosulfan I	17	17	NA	16	17	* 98	*	100		2	50	70- 93
4,4'-DDE	17	17	NA	17	18	103	*	109		5	50	69-108
Dieldrin	17	17	NA	17	18	103	*	109		5	50	71-104
Endrin	17	17	NA	18	19	110	*	113		3	50	69-110
4,4'-DDD	17	17	NA	18	19	110		116		5	50	61-130
Endosulfan II	17	17	NA	18	20	* 110	*	117		6	50	67-108
4,4'-DDT	17	17	NA	18	19	107		112		4	50	62-126
Endrin Aldehyde	17	17	NA	18	19	108		115		6	50	45-124
Endosulfan sulfate	17	17	NA	19	20	114		120		5	50	51-137
Methoxychlor	17	17	NA	18	19	111		115		4	50	53-180
alpha-Chlordane	17	17	NA	17	18	103	*	107		4	50	72-105
gamma-Chlordane	17	17	NA	17	18	* 103	*	107		4	50	72-102
Endrin Ketone	17	17	NA	19	20	113		119		5	50	66-140

FORM 4

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG1299-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVI Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab Sample ID: WG1299-1 Lab File ID: 8SL1108

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW846 3550

Sulfur Cleanup: (Y/N) N Date Extracted: 12/12/02

Date Analyzed (1): 12/13/02 Date Analyzed (2): 12/13/02

Time Analyzed (1): 0930 Time Analyzed (2): 0930

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG1299-LCS	WG1299-2	8SL1109	12/13/02	12/13/02
02	WG1299-LCSD	WG1299-3	8SL1110	12/13/02	12/13/02
03	JAX-47-SB57-S01	WS4555-1	8SL1111	12/13/02	12/13/02
04	JAX-47-SB56-S02	WS4555-3	8SL1113	12/13/02	12/13/02
05	JAX-47-SB16-S02	WS4555-4	8SL1114	12/13/02	12/13/02
06	JAX-47-SB56-S01	WS4555-5	8SL1115	12/13/02	12/13/02
07	JAX-47-SB55-S01	WS4555-6	8SL1116	12/13/02	12/13/02
08	JAX-47-IDW-SS1	WS4555-7	8SL1117	12/13/02	12/13/02
09	JAX-47-SB58-S01	WS4555-2	8SL1121	12/13/02	12/13/02
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS: _____

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date(s): 12/12/02 12/13/02

Column: RTX-CLPI ID: 0.53 (mm) Calibration Time(s): 2220 0035

LAB FILE ID: RF0.005: 8SL1097 RF0.01: 8SL1098 RF0.025: 8SL1099
RF0.05: 8SL1096 RF0.1: 8SL1100 RF0.25: 8SL1101

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	A0	A1	A2	OR R^2	OR R^2
Endosulfan I	11841	24350	59667	117050	224320	503880	2ORDR	9e-005	4e-007	2e-013	1.00000	0.99000
alpha-BHC	10527	22985	70267	141030	275960	645050	2ORDR	1e-003	3e-007	7e-014	0.99994	0.99000
gamma BHC	11239	23396	66400	129880	257680	629510	2ORDR	4e-004	4e-007	3e-014	0.99997	0.99000
beta-BHC	7192	14405	34074	66143	126790	300880	2ORDR	-6e-004	8e-007	3e-013	0.99997	0.99000
delta-BHC	9691	21252	58891	124730	249950	601420	2ORDR	1e-003	4e-007	5e-014	0.99994	0.99000
Heptachlor	13831	27373	69098	136480	267930	645700	2ORDR	-6e-005	4e-007	4e-014	1.00000	0.99000
Aldrin	11490	23947	65904	132460	259760	597000	2ORDR	8e-004	4e-007	1.e-013	0.99998	0.99000
Heptachlor Epoxide	12168	24873	62227	120660	226330	553690	2ORDR	-7e-004	4e-007	4e-014	0.99986	0.99000
gamma-Chlordane	13123	26574	64604	125550	239100	535680	2ORDR	-9e-005	4e-007	2e-013	1.00000	0.99000
alpha-Chlordane	13358	27145	64450	124080	234500	527360	2ORDR	-4e-004	4e-007	2e-013	0.99999	0.99000
4,4'-DDE	9641	20868	51750	108800	218740	540860	2ORDR	6e-004	5e-007	2e-014	0.99997	0.99000
4,4'-DDT	6923	15081	38628	80477	159850	391030	2ORDR	6e-004	6e-007	7e-014	0.99998	0.99000
Dieldrin	10059	21396	55412	113690	221840	510910	2ORDR	7e-004	4e-007	1e-013	0.99998	0.99000
Endrin	9392	19832	50600	103350	203200	472920	2ORDR	6.e-004	5e-007	1e-013	0.99998	0.99000
4,4'-DDD	6218	13627	33723	73644	152210	384850	2ORDR	1e-003	7e-007	-4e-014	0.99990	0.99000
Endosulfan II	8716	18280	43799	85833	168420	414790	2ORDR	-4e-004	6e-007	4.e-014	0.99998	0.99000
Endrin Aldehyde	5599	10704	24728	46928	94203	233200	2ORDR	-8e-004	1e-006	3e-014	0.99996	0.99000
Methoxychlor	4815	10026	22160	43838	82986	194570	2ORDR	-7e-004	1e-006	7e-013	0.99995	0.99000
Endosulfan sulfate	5449	11190	26264	53443	108710	274520	2ORDR	4e-005	9e-007	-8e-014	0.99998	0.99000
Endrin Ketone	6683	14053	34408	69877	134690	322950	2ORDR	-3e-006	7e-007	2e-013	0.99998	0.99000
Decachlorobiphenyl	11320	22118	46982	83407	148030	332940	2ORDR	-2e-003	6e-007	5e-013	0.99957	0.99000
Tetrachloro-m-Xylene	9446	18955	49321	90386	170290	397960	2ORDR	-7e-004	6e-007	2.e-013	0.99987	0.99000

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date(s): 12/12/02 12/13/02

Column: RTX-CLPII ID: 0.53 (mm) Calibration Time(s): 2220 0035

LAB FILE ID: RF0.005: 8SL2097 RF0.01: 8SL2098 RF0.025: 8SL2099
RF0.05: 8SL2096 RF0.1: 8SL2100 RF0.25: 8SL2101

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	A0	A1	A2	OR R^2	OR R^2
4,4'-DDE	7979	16742	40062	79661	153190	352050	2ORDR	-1e-005	6e-007	3e-013	1.00000	0.99000
delta-BHC	10150	22337	60139	121660	233930	572610	2ORDR	3e-004	4e-007	4.e-014	0.99994	0.99000
alpha-BHC	11790	25018	70951	143970	277700	636540	2ORDR	9e-004	3e-007	1e-013	0.99996	0.99000
Heptachlor	11182	21858	54642	110400	200560	453870	2ORDR	-2e-004	4e-007	2e-013	0.99988	0.99000
Aldrin	10505	21486	56182	112020	218480	503580	2ORDR	5e-004	4e-007	1e-013	0.99999	0.99000
Heptachlor Epoxide	10079	20405	48744	95111	181100	407510	2ORDR	-2e-004	5.e-007	3e-013	1.00000	0.99000
gamma-Chlordane	9315	18798	45338	87985	167480	383380	2ORDR	-3e-004	6e-007	3e-013	0.99999	0.99000
alpha-Chlordane	8840	17979	41869	81163	156970	368330	2ORDR	-5e-004	6e-007	2.e-013	0.99999	0.99000
gamma BHC	11933	24751	66933	134940	261110	599720	2ORDR	6e-004	4e-007	1.e-013	0.99998	0.99000
beta-BHC	6645	13176	31491	61256	118550	280240	2ORDR	-4e-004	8e-007	3.e-013	0.99999	0.99000
Endosulfan sulfate	5683	11462	26271	51642	100500	236890	2ORDR	-4e-004	1e-006	4e-013	0.99999	0.99000
Endrin Ketone	6649	13880	32610	64473	125180	291290	2ORDR	-2e-004	8e-007	4e-013	1.00000	0.99000
Endosulfan I	8035	16288	39706	76648	146180	339210	2ORDR	-4e-004	6e-007	3e-013	0.99998	0.99000
Dieldrin	6990	14614	35797	72934	145480	343370	2ORDR	5e-004	7e-007	2.e-013	0.99998	0.99000
Endrin	6074	12624	30366	61504	122020	287870	2ORDR	3e-004	8e-007	3e-013	0.99998	0.99000
4,4'-DDD	4413	9343	22682	47495	96996	237560	2ORDR	7e-004	1.e-006	1e-013	0.99994	0.99000
Endosulfan II	5888	12089	28335	55806	108250	250190	2ORDR	-2e-004	9e-007	5e-013	1.00000	0.99000
4,4'-DDT	4890	10209	24711	50035	99802	239120	2ORDR	3e-004	1e-006	3.e-013	0.99999	0.99000
Endrin Aldehyde	5153	9788	21877	41578	82581	195790	2ORDR	-8e-004	1e-006	5e-013	0.99995	0.99000
Methoxychlor	3861	7896	17456	33753	63564	146580	2ORDR	-9e-004	1e-006	2e-012	0.99995	0.99000
Decachlorobiphenyl	8679	17218	37516	67100	120390	268410	2ORDR	-2e-003	7e-007	7e-013	0.99971	0.99000
Tetrachloro-m-Xylene	9845	18919	47190	90036	169470	392870	2ORDR	-6e-004	6e-007	2e-013	0.99995	0.99000

FORM VI SV

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/12/02
Lab Sample ID (PEM): EVAL Time Analyzed :2153

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL1095.d	0.86	1.21

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/12/02
Lab Sample ID (PEM): EVAL Time Analyzed :2153

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL2095.d	0.79	1.94

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 0103

Lab File ID: 8SL1102 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Endosulfan I	5.12e-002	5.e-002	2396100.0	0.01	2.40	15.00	2RDR
gamma BHC	5.29e-002	5.e-002	2746400.0	0.01	5.80	15.00	2RDR
beta-BHC	5.29e-002	5.e-002	1383700.0	0.01	5.80	15.00	2RDR
delta-BHC	5.19e-002	5.e-002	2590200.0	0.01	3.80	15.00	2RDR
Heptachlor	5.32e-002	5.e-002	2893600.0	0.01	6.40	15.00	2RDR
Aldrin	5.19e-002	5.e-002	2758600.0	0.01	3.80	15.00	2RDR
Heptachlor Epoxide	5.28e-002	5.e-002	2469600.0	0.01	5.60	15.00	2RDR
gamma-Chlordane	5.12e-002	5.e-002	2563700.0	0.01	2.40	15.00	2RDR
alpha-Chlordane	5.18e-002	5.e-002	2553400.0	0.01	3.60	15.00	2RDR
4,4'-DDE	5.28e-002	5.e-002	2298400.0	0.01	5.60	15.00	2RDR
alpha-BHC	5.22e-002	5.e-002	2933900.0	0.01	4.40	15.00	2RDR
Dieldrin	5.07e-002	5.e-002	2303300.0	0.01	1.40	15.00	2RDR
Endrin	5.12e-002	5.e-002	2118100.0	0.01	2.40	15.00	2RDR
4,4'-DDD	5.19e-002	5.e-002	1543100.0	0.01	3.80	15.00	2RDR
Endosulfan II	5.29e-002	5.e-002	1805800.0	0.01	5.80	15.00	2RDR
4,4'-DDT	5.09e-002	5.e-002	1630200.0	0.01	1.80	15.00	2RDR
Endrin Aldehyde	5.33e-002	5.e-002	1011300.0	0.01	6.60	15.00	2RDR
Methoxychlor	5.21e-002	5.e-002	897660.00	0.01	4.20	15.00	2RDR
Endosulfan sulfate	5.23e-002	5.e-002	1126700.0	0.01	4.60	15.00	2RDR
Endrin Ketone	5.16e-002	5.e-002	1420000.0	0.01	3.20	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 0103

Lab File ID: 8SL2102 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4,4'-DDE	5.19e-002	5.e-002	1643800.0	0.01	3.80	15.00	2RDR
gamma BHC	5.24e-002	5.e-002	2811400.0	0.01	4.80	15.00	2RDR
beta-BHC	5.29e-002	5.e-002	1287700.0	0.01	5.80	15.00	2RDR
delta-BHC	5.28e-002	5.e-002	2509900.0	0.01	5.60	15.00	2RDR
Heptachlor	4.98e-002	5.e-002	2122800.0	0.01	-0.40	15.00	2RDR
Aldrin	5.27e-002	5.e-002	2360500.0	0.01	5.40	15.00	2RDR
Heptachlor Epoxide	5.24e-002	5.e-002	1983400.0	0.01	4.80	15.00	2RDR
gamma-Chlordane	5.2e-002	5.e-002	1813900.0	0.01	4.00	15.00	2RDR
alpha-Chlordane	5.33e-002	5.e-002	1724100.0	0.01	6.60	15.00	2RDR
Endosulfan I	5.21e-002	5.e-002	1580800.0	0.01	4.20	15.00	2RDR
alpha-BHC	5.27e-002	5.e-002	3007000.0	0.01	5.40	15.00	2RDR
Dieldrin	5.22e-002	5.e-002	1534100.0	0.01	4.40	15.00	2RDR
Endrin	5.21e-002	5.e-002	1288400.0	0.01	4.20	15.00	2RDR
4,4'-DDD	5.16e-002	5.e-002	992840.00	0.01	3.20	15.00	2RDR
Endosulfan II	5.17e-002	5.e-002	1154300.0	0.01	3.40	15.00	2RDR
4,4'-DDT	5.14e-002	5.e-002	1034100.0	0.01	2.80	15.00	2RDR
Endrin Aldehyde	5.31e-002	5.e-002	895700.00	0.01	6.20	15.00	2RDR
Endosulfan sulfate	5.22e-002	5.e-002	1077200.0	0.01	4.40	15.00	2RDR
Methoxychlor	5.3e-002	5.e-002	704620.00	0.01	6.00	15.00	2RDR
Endrin Ketone	5.27e-002	5.e-002	1355700.0	0.01	5.40	15.00	2RDR

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/13/02
Lab Sample ID (PEM): EVAL Time Analyzed :0826

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL1106.d	1.42	0.27

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/13/02
Lab Sample ID (PEM): EVAL Time Analyzed :0826

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL2106.d	1.63	0.67

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 0853

Lab File ID: 8SL1107 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.19e-002	5.e-002	2915900.0	0.01	3.80	15.00	2RDR
gamma BHC	5.58e-002	5.e-002	2895400.0	0.01	11.60	15.00	2RDR
Heptachlor	5.49e-002	5.e-002	2983400.0	0.01	9.80	15.00	2RDR
beta-BHC	5.44e-002	5.e-002	1420000.0	0.01	8.80	15.00	2RDR
Aldrin	4.94e-002	5.e-002	2628700.0	0.01	-1.20	15.00	2RDR
delta-BHC	5.16e-002	5.e-002	2576600.0	0.01	3.20	15.00	2RDR
Heptachlor Epoxide	5.49e-002	5.e-002	2563100.0	0.01	9.80	15.00	2RDR
Endosulfan I	4.83e-002	5.e-002	2265000.0	0.01	-3.40	15.00	2RDR
4,4'-DDE	5.3e-002	5.e-002	2305900.0	0.01	6.00	15.00	2RDR
Dieldrin	4.86e-002	5.e-002	2210200.0	0.01	-2.80	15.00	2RDR
Endrin	4.8e-002	5.e-002	1990200.0	0.01	-4.00	15.00	2RDR
4,4'-DDD	5.21e-002	5.e-002	1549600.0	0.01	4.20	15.00	2RDR
Endosulfan II	5.32e-002	5.e-002	1814100.0	0.01	6.40	15.00	2RDR
4,4'-DDT	5.09e-002	5.e-002	1630000.0	0.01	1.80	15.00	2RDR
Endrin Aldehyde	5.33e-002	5.e-002	1013000.0	0.01	6.60	15.00	2RDR
Endosulfan sulfate	5.31e-002	5.e-002	1144200.0	0.01	6.20	15.00	2RDR
Methoxychlor	5.26e-002	5.e-002	906300.00	0.01	5.20	15.00	2RDR
alpha-Chlordane	4.78e-002	5.e-002	2364300.0	0.01	-4.40	15.00	2RDR
gamma-Chlordane	4.86e-002	5.e-002	2438900.0	0.01	-2.80	15.00	2RDR
Endrin Ketone	5.22e-002	5.e-002	1434800.0	0.01	4.40	15.00	2RDR
Tetrachloro-m-Xylene	5.45e-002	5.e-002	1938900.0	0.01	9.00	15.00	2RDR
Decachlorobiphenyl	5.38e-002	5.e-002	1737400.0	0.01	7.60	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 0853

Lab File ID: 8SL2107 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.07e-002	5.e-002	2898200.0	0.01	1.40	15.00	2RDR
gamma BHC	5.16e-002	5.e-002	2771300.0	0.01	3.20	15.00	2RDR
Heptachlor	4.5e-002	5.e-002	1928000.0	0.01	-10.00	15.00	2RDR
beta-BHC	5.37e-002	5.e-002	1306800.0	0.01	7.40	15.00	2RDR
Aldrin	5.03e-002	5.e-002	2255300.0	0.01	0.60	15.00	2RDR
delta-BHC	5.33e-002	5.e-002	2534400.0	0.01	6.60	15.00	2RDR
Heptachlor Epoxide	4.95e-002	5.e-002	1879200.0	0.01	-1.00	15.00	2RDR
Endosulfan I	5.12e-002	5.e-002	1553900.0	0.01	2.40	15.00	2RDR
4,4'-DDE	4.95e-002	5.e-002	1570600.0	0.01	-1.00	15.00	2RDR
Dieldrin	5.e-002	5.e-002	1471200.0	0.01	0.00	15.00	2RDR
Endrin	5.02e-002	5.e-002	1243100.0	0.01	0.40	15.00	2RDR
4,4'-DDD	4.99e-002	5.e-002	960040.00	0.01	-0.20	15.00	2RDR
Endosulfan II	5.e-002	5.e-002	1116300.0	0.01	0.00	15.00	2RDR
4,4'-DDT	4.9e-002	5.e-002	986680.00	0.01	-2.00	15.00	2RDR
Endrin Aldehyde	5.24e-002	5.e-002	883720.00	0.01	4.80	15.00	2RDR
Endosulfan sulfate	5.01e-002	5.e-002	1033800.0	0.01	0.20	15.00	2RDR
Methoxychlor	4.98e-002	5.e-002	664660.00	0.01	-0.40	15.00	2RDR
alpha-Chlordane	5.23e-002	5.e-002	1693100.0	0.01	4.60	15.00	2RDR
gamma-Chlordane	4.94e-002	5.e-002	1728800.0	0.01	-1.20	15.00	2RDR
Endrin Ketone	5.07e-002	5.e-002	1307400.0	0.01	1.40	15.00	2RDR
Tetrachloro-m-Xylene	5.44e-002	5.e-002	1923800.0	0.01	8.80	15.00	2RDR
Decachlorobiphenyl	5.06e-002	5.e-002	1329400.0	0.01	1.20	15.00	2RDR

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/13/02
Lab Sample ID (PEM): EVAL Time Analyzed :1401

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL1118.d	1.98	0.34

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/13/02
Lab Sample ID (PEM): EVAL Time Analyzed :1401

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL2118.d	2.37	0.72

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 1428

Lab File ID: 8SL1119 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.5e-002	5.e-002	3089100.0	0.01	10.00	15.00	2RDR
gamma BHC	5.61e-002	5.e-002	2909500.0	0.01	12.20	15.00	2RDR
Heptachlor	5.59e-002	5.e-002	3039600.0	0.01	11.80	15.00	2RDR
beta-BHC	5.65e-002	5.e-002	1473100.0	0.01	13.00	15.00	2RDR
Aldrin	5.31e-002	5.e-002	2820100.0	0.01	6.20	15.00	2RDR
delta-BHC	5.43e-002	5.e-002	2709600.0	0.01	8.60	15.00	2RDR
Heptachlor Epoxide	5.48e-002	5.e-002	2560200.0	0.01	9.60	15.00	2RDR
Endosulfan I	5.1e-002	5.e-002	2387500.0	0.01	2.00	15.00	2RDR
4,4'-DDE	5.5e-002	5.e-002	2394600.0	0.01	10.00	15.00	2RDR
Dieldrin	5.03e-002	5.e-002	2285300.0	0.01	0.60	15.00	2RDR
Endrin	5.16e-002	5.e-002	2135800.0	0.01	3.20	15.00	2RDR
4,4'-DDD	5.51e-002	5.e-002	1641900.0	0.01	10.20	15.00	2RDR
Endosulfan II	5.55e-002	5.e-002	1890900.0	0.01	11.00	15.00	2RDR
4,4'-DDT	5.17e-002	5.e-002	1656200.0	0.01	3.40	15.00	2RDR
Endrin Aldehyde	5.67e-002	5.e-002	1076100.0	0.01	13.40	15.00	2RDR
Endosulfan sulfate	5.39e-002	5.e-002	1163100.0	0.01	7.80	15.00	2RDR
Methoxychlor	5.37e-002	5.e-002	924000.00	0.01	7.40	15.00	2RDR
alpha-Chlordane	5.19e-002	5.e-002	2558700.0	0.01	3.80	15.00	2RDR
gamma-Chlordane	5.14e-002	5.e-002	2575300.0	0.01	2.80	15.00	2RDR
Endrin Ketone	5.39e-002	5.e-002	1480900.0	0.01	7.80	15.00	2RDR
Tetrachloro-m-Xylene	5.73e-002	5.e-002	2035400.0	0.01	14.60	15.00	2RDR
Decachlorobiphenyl	5.45e-002	5.e-002	1756400.0	0.01	9.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 1428

Lab File ID: 8SL2119 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.29e-002	5.e-002	3017500.0	0.01	5.80	15.00	2RDR
gamma BHC	5.17e-002	5.e-002	2773900.0	0.01	3.40	15.00	2RDR
Heptachlor	5.5e-002	5.e-002	2330800.0	0.01	10.00	15.00	2RDR
beta-BHC	5.1e-002	5.e-002	1244000.0	0.01	2.00	15.00	2RDR
Aldrin	5.15e-002	5.e-002	2310600.0	0.01	3.00	15.00	2RDR
delta-BHC	5.28e-002	5.e-002	2510600.0	0.01	5.60	15.00	2RDR
Heptachlor Epoxide	5.13e-002	5.e-002	1944500.0	0.01	2.60	15.00	2RDR
Endosulfan I	5.31e-002	5.e-002	1609400.0	0.01	6.20	15.00	2RDR
4,4'-DDE	5.19e-002	5.e-002	1643200.0	0.01	3.80	15.00	2RDR
Dieldrin	5.12e-002	5.e-002	1504200.0	0.01	2.40	15.00	2RDR
Endrin	5.09e-002	5.e-002	1258400.0	0.01	1.80	15.00	2RDR
4,4'-DDD	5.05e-002	5.e-002	972000.00	0.01	1.00	15.00	2RDR
Endosulfan II	5.15e-002	5.e-002	1149500.0	0.01	3.00	15.00	2RDR
4,4'-DDT	5.09e-002	5.e-002	1023800.0	0.01	1.80	15.00	2RDR
Endrin Aldehyde	5.25e-002	5.e-002	885060.00	0.01	5.00	15.00	2RDR
Endosulfan sulfate	5.e-002	5.e-002	1032200.0	0.01	0.00	15.00	2RDR
Methoxychlor	5.03e-002	5.e-002	670860.00	0.01	0.60	15.00	2RDR
alpha-Chlordane	5.2e-002	5.e-002	1680800.0	0.01	4.00	15.00	2RDR
gamma-Chlordane	5.23e-002	5.e-002	1823600.0	0.01	4.60	15.00	2RDR
Endrin Ketone	5.04e-002	5.e-002	1298600.0	0.01	0.80	15.00	2RDR
Tetrachloro-m-Xylene	5.36e-002	5.e-002	1895100.0	0.01	7.20	15.00	2RDR
Decachlorobiphenyl	5.1e-002	5.e-002	1338700.0	0.01	2.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 1646

Lab File ID: 8SL1122 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.57e-002	5.e-002	3128900.0	0.01	11.40	15.00	2RDR	
gamma BHC	5.74e-002	5.e-002	2977000.0	0.01	14.80	15.00	2RDR	
Heptachlor	5.49e-002	5.e-002	2982800.0	0.01	9.80	15.00	2RDR	
beta-BHC	5.75e-002	5.e-002	1499800.0	0.01	15.00	15.00	2RDR	
Aldrin	5.52e-002	5.e-002	2929500.0	0.01	10.40	15.00	2RDR	
delta-BHC	5.62e-002	5.e-002	2806800.0	0.01	12.40	15.00	2RDR	
Heptachlor Epoxide	5.65e-002	5.e-002	2637000.0	0.01	13.00	15.00	2RDR	
Endosulfan I	5.39e-002	5.e-002	2516500.0	0.01	7.80	15.00	2RDR	
4,4'-DDE	5.34e-002	5.e-002	2325300.0	0.01	6.80	15.00	2RDR	
Dieldrin	5.37e-002	5.e-002	2437200.0	0.01	7.40	15.00	2RDR	
Endrin	5.4e-002	5.e-002	2234400.0	0.01	8.00	15.00	2RDR	
4,4'-DDD	5.46e-002	5.e-002	1628200.0	0.01	9.20	15.00	2RDR	
Endosulfan II	5.61e-002	5.e-002	1913600.0	0.01	12.20	15.00	2RDR	
4,4'-DDT	5.48e-002	5.e-002	1754300.0	0.01	9.60	15.00	2RDR	
Endrin Aldehyde	5.68e-002	5.e-002	1078200.0	0.01	13.60	15.00	2RDR	
Endosulfan sulfate	5.56e-002	5.e-002	1198100.0	0.01	11.20	15.00	2RDR	
Methoxychlor	5.48e-002	5.e-002	942280.00	0.01	9.60	15.00	2RDR	
alpha-Chlordane	5.42e-002	5.e-002	2666300.0	0.01	8.40	15.00	2RDR	
gamma-Chlordane	5.49e-002	5.e-002	2739700.0	0.01	9.80	15.00	2RDR	
Endrin Ketone	5.5e-002	5.e-002	1511400.0	0.01	10.00	15.00	2RDR	
Tetrachloro-m-Xylene	6.05e-002	5.e-002	2140500.0	0.01	21.00	15.00	2RDR	<-
Decachlorobiphenyl	5.47e-002	5.e-002	1761000.0	0.01	9.40	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 1646

Lab File ID: 8SL2122 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.28e-002	5.e-002	3016700.0	0.01	5.60	15.00	2RDR
gamma BHC	5.39e-002	5.e-002	2890400.0	0.01	7.80	15.00	2RDR
Heptachlor	5.16e-002	5.e-002	2193500.0	0.01	3.20	15.00	2RDR
beta-BHC	5.53e-002	5.e-002	1344000.0	0.01	10.60	15.00	2RDR
Aldrin	5.25e-002	5.e-002	2351100.0	0.01	5.00	15.00	2RDR
delta-BHC	5.29e-002	5.e-002	2514900.0	0.01	5.80	15.00	2RDR
Heptachlor Epoxide	5.17e-002	5.e-002	1958000.0	0.01	3.40	15.00	2RDR
Endosulfan I	5.21e-002	5.e-002	1581200.0	0.01	4.20	15.00	2RDR
4,4'-DDE	5.2e-002	5.e-002	1648500.0	0.01	4.00	15.00	2RDR
Dieldrin	5.18e-002	5.e-002	1522000.0	0.01	3.60	15.00	2RDR
Endrin	5.16e-002	5.e-002	1277400.0	0.01	3.20	15.00	2RDR
4,4'-DDD	5.13e-002	5.e-002	987620.00	0.01	2.60	15.00	2RDR
Endosulfan II	5.19e-002	5.e-002	1159300.0	0.01	3.80	15.00	2RDR
4,4'-DDT	5.17e-002	5.e-002	1039900.0	0.01	3.40	15.00	2RDR
Endrin Aldehyde	5.37e-002	5.e-002	904260.00	0.01	7.40	15.00	2RDR
Endosulfan sulfate	5.11e-002	5.e-002	1053800.0	0.01	2.20	15.00	2RDR
Methoxychlor	5.12e-002	5.e-002	682440.00	0.01	2.40	15.00	2RDR
alpha-Chlordane	5.24e-002	5.e-002	1693800.0	0.01	4.80	15.00	2RDR
gamma-Chlordane	5.17e-002	5.e-002	1804800.0	0.01	3.40	15.00	2RDR
Endrin Ketone	5.17e-002	5.e-002	1331800.0	0.01	3.40	15.00	2RDR
Tetrachloro-m-Xylene	5.73e-002	5.e-002	2021700.0	0.01	14.60	15.00	2RDR
Decachlorobiphenyl	5.23e-002	5.e-002	1369500.0	0.01	4.60	15.00	2RDR

FORM VII PEST

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 15.89 TCX: 3.67

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	12/12/02	2153		
02	ICAL	INDAB 0.05PP	12/12/02	2220	15.91	3.68
03	ICAL	INDAB 0.005P	12/12/02	2247	15.91	3.68
04	ICAL	INDAB 0.01PP	12/12/02	2314	15.91	3.68
05	ICAL	INDAB 0.025P	12/12/02	2341	15.91	3.68
06	ICAL	INDAB 0.1PPM	12/13/02	0009	15.89	3.68
07	ICAL	INDAB 0.25PP	12/13/02	0035	15.89	3.67
08	IND SOURCE	INDAB 0.05PP	12/13/02	0103		
09	ICAL	TOXAPHENE 1.	12/13/02	0130		
10	ICAL	CHLORDANE 0.	12/13/02	0157		
11	EVAL	EVAL	12/13/02	0826		
12	CV	INDAB 0.05PP	12/13/02	0853	15.89	3.67
13	WG1299-BLANK	WG1299-1	12/13/02	0930	15.91	3.68
14	WG1299-LCS	WG1299-2	12/13/02	0957	15.89	3.68
15	WG1299-LCSD	WG1299-3	12/13/02	1024	15.89	3.68
16	JAX-47-SB57-	WS4555-1	12/13/02	1051	15.89	3.68
17	JAX-47-SB56-	WS4555-3	12/13/02	1145	15.89	3.68
18	JAX-47-SB16-	WS4555-4	12/13/02	1212	15.89	3.68
19	JAX-47-SB56-	WS4555-5	12/13/02	1239	15.89	3.68
20	JAX-47-SB55-	WS4555-6	12/13/02	1306	15.89	3.67

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 15.89 TCX: 3.67

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	JAX-47-IDW-S	WS4555-7	12/13/02	1334	15.89	3.68
02	EVAL	EVAL	12/13/02	1401		
03	CV	INDAB 0.05PP	12/13/02	1428	15.89	3.68
04	JAX-47-SB58-	WS4555-2	12/13/02	1609		
05	CV	INDAB 0.05PP	12/13/02	1646	15.92	3.68
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 19.64 TCX: 4.32

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	12/12/02	2153		
02	ICAL	INDAB 0.05PP	12/12/02	2220	19.64	4.32
03	ICAL	INDAB 0.005P	12/12/02	2247	19.64	4.32
04	ICAL	INDAB 0.01PP	12/12/02	2314	19.64	4.32
05	ICAL	INDAB 0.025P	12/12/02	2341	19.64	4.32
06	ICAL	INDAB 0.1PPM	12/13/02	0009	19.63	4.32
07	ICAL	INDAB 0.25PP	12/13/02	0035	19.63	4.32
08	IND SOURCE	INDAB 0.05PP	12/13/02	0103		
09	ICAL	TOXAPHENE 1.	12/13/02	0130		
10	ICAL	CHLORDANE 0.	12/13/02	0157		
11	EVAL	EVAL	12/13/02	0826		
12	CV	INDAB 0.05PP	12/13/02	0853	19.63	4.32
13	WG1299-BLANK	WG1299-1	12/13/02	0930	19.64	4.32
14	WG1299-LCS	WG1299-2	12/13/02	0957	19.63	4.32
15	WG1299-LCSD	WG1299-3	12/13/02	1024	19.63	4.32
16	JAX-47-SB57-	WS4555-1	12/13/02	1051	19.63	4.32
17	JAX-47-SB56-	WS4555-3	12/13/02	1145	19.63	4.32
18	JAX-47-SB16-	WS4555-4	12/13/02	1212	19.63	4.32
19	JAX-47-SB56-	WS4555-5	12/13/02	1239	19.64	4.32
20	JAX-47-SB55-	WS4555-6	12/13/02	1306	19.63	4.32

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 19.64 TCX: 4.32

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	JAX-47-IDW-S	WS4555-7	12/13/02	1334	19.64	4.32
02	EVAL	EVAL	12/13/02	1401		
03	CV	INDAB 0.05PP	12/13/02	1428	19.64	4.32
04	JAX-47-SB58-	WS4555-2	12/13/02	1609		
05	CV	INDAB 0.05PP	12/13/02	1646	19.64	4.32
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-1
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB57-S01	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	79 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-2
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB58-S01	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	75 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-3
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB56-S02	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	89 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-4
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB16-S02	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	80 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-5
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB56-S01	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	92 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-6
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-SB55-S01	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	90 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WS4555-7
Report Date: 12/23/02 11:29:29 AM
Client PO: MSA-0402-N4113-05 N4207-WR106(SD)
Project: NAS JACKSONVILLE CTO162
SDG: WS4555

Sample Description	Matrix	Date Sampled	Date Received
JAX-47-IDW-SS1	SL	12/11/2002	12/12/2002

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Total Solids	84 %	0.1	CLP SOW 788	12/13/02 07:20	JF	CLP SOW 788	12/12/02	JF	

Notes

Quality Control Report

Laboratory Control Sample Report

Company Tetra Tech NUS, Inc.
Sdg WS4555

Qc Batch Id	Anal Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Recovery Acceptance Range
Parameter: Total Solids							
WG1300	12/13/02	12/12/02	%	91	92	102	80-120

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Quality Control Report

Sample Duplicate Report

Client: Tetra Tech NUS, Inc.
Sdg: WS4555

Sample	Anal Date	Units	Native Result	Duplicate Result	RPD	Criteria (%)
Total Solids						
WS4555-1	12/13/02	%	79	80	1	20

340 County Road No. 5
P.O. Box 720, Westborrk, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

CTO 162
SDG WS4555
PEST/PCB

PESTICIDE DATA

QC Summary Section

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column(1): RTX-CLPI ID: 0.53 (mm) GC Column(2): RTX-CLPII ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG1299-BLANK	WG1299-1	86	84	102	97			0
02	WG1299-LCS	WG1299-2	82	82	102	96			0
03	WG1299-LCSD	WG1299-3	90	89	105	99			0
04	JAX-47-SB57-S01	WS4555-1	88	86	99	94			0
05	JAX-47-SB56-S02	WS4555-3	92	90	104	90			0
06	JAX-47-SB16-S02	WS4555-4	86	82	100	92			0
07	JAX-47-SB56-S01	WS4555-5	97*	95*	99	91			2
08	JAX-47-SB55-S01	WS4555-6	101*	97*	101	92			2
09	JAX-47-IDW-SS1	WS4555-7	86	81	91	84			0
10	JAX-47-SB58-S01	WS4555-2	D	D	D	D			0
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-Xylene (45- 94)
S2 (DCB) = Decachlorobiphenyl (37-119)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID: WG1299-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVI Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab Sample ID: WG1299-1 Lab File ID: 8SL1108

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW846 3550

Sulfur Cleanup: (Y/N) N Date Extracted: 12/12/02

Date Analyzed (1): 12/13/02 Date Analyzed (2): 12/13/02

Time Analyzed (1): 0930 Time Analyzed (2): 0930

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG1299-LCS	WG1299-2	8SL1109	12/13/02	12/13/02
02	WG1299-LCSD	WG1299-3	8SL1110	12/13/02	12/13/02
03	JAX-47-SB57-S01	WS4555-1	8SL1111	12/13/02	12/13/02
04	JAX-47-SB56-S02	WS4555-3	8SL1113	12/13/02	12/13/02
05	JAX-47-SB16-S02	WS4555-4	8SL1114	12/13/02	12/13/02
06	JAX-47-SB56-S01	WS4555-5	8SL1115	12/13/02	12/13/02
07	JAX-47-SB55-S01	WS4555-6	8SL1116	12/13/02	12/13/02
08	JAX-47-IDW-SS1	WS4555-7	8SL1117	12/13/02	12/13/02
09	JAX-47-SB58-S01	WS4555-2	8SL1121	12/13/02	12/13/02
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS: _____

FORM IV PEST

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 15.89 TCX: 3.67

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	12/12/02	2153		
02	ICAL	INDAB 0.05PP	12/12/02	2220	15.91	3.68
03	ICAL	INDAB 0.005P	12/12/02	2247	15.91	3.68
04	ICAL	INDAB 0.01PP	12/12/02	2314	15.91	3.68
05	ICAL	INDAB 0.025P	12/12/02	2341	15.91	3.68
06	ICAL	INDAB 0.1PPM	12/13/02	0009	15.89	3.68
07	ICAL	INDAB 0.25PP	12/13/02	0035	15.89	3.67
08	IND SOURCE	INDAB 0.05PP	12/13/02	0103		
09	ICAL	TOXAPHENE 1.	12/13/02	0130		
10	ICAL	CHLORDANE 0.	12/13/02	0157		
11	EVAL	EVAL	12/13/02	0826		
12	CV	INDAB 0.05PP	12/13/02	0853	15.89	3.67
13	WG1299-BLANK	WG1299-1	12/13/02	0930	15.91	3.68
14	WG1299-LCS	WG1299-2	12/13/02	0957	15.89	3.68
15	WG1299-LCSD	WG1299-3	12/13/02	1024	15.89	3.68
16	JAX-47-SB57-	WS4555-1	12/13/02	1051	15.89	3.68
17	JAX-47-SB56-	WS4555-3	12/13/02	1145	15.89	3.68
18	JAX-47-SB16-	WS4555-4	12/13/02	1212	15.89	3.68
19	JAX-47-SB56-	WS4555-5	12/13/02	1239	15.89	3.68
20	JAX-47-SB55-	WS4555-6	12/13/02	1306	15.89	3.67

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 3000005

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 15.89 TCX: 3.67

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	JAX-47-IDW-S	WS4555-7	12/13/02	1334	15.89	3.68
02	EVAL	EVAL	12/13/02	1401		
03	CV	INDAB 0.05PP	12/13/02	1428	15.89	3.68
04	JAX-47-SB58-	WS4555-2	12/13/02	1609		
05	CV	INDAB 0.05PP	12/13/02	1646	15.92	3.68
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 19.64 TCX: 4.32

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	12/12/02	2153		
02	ICAL	INDAB 0.05PP	12/12/02	2220	19.64	4.32
03	ICAL	INDAB 0.005P	12/12/02	2247	19.64	4.32
04	ICAL	INDAB 0.01PP	12/12/02	2314	19.64	4.32
05	ICAL	INDAB 0.025P	12/12/02	2341	19.64	4.32
06	ICAL	INDAB 0.1PPM	12/13/02	0009	19.63	4.32
07	ICAL	INDAB 0.25PP	12/13/02	0035	19.63	4.32
08	IND SOURCE	INDAB 0.05PP	12/13/02	0103		
09	ICAL	TOXAPHENE 1.	12/13/02	0130		
10	ICAL	CHLORDANE 0.	12/13/02	0157		
11	EVAL	EVAL	12/13/02	0826		
12	CV	INDAB 0.05PP	12/13/02	0853	19.63	4.32
13	WG1299-BLANK	WG1299-1	12/13/02	0930	19.64	4.32
14	WG1299-LCS	WG1299-2	12/13/02	0957	19.63	4.32
15	WG1299-LCSD	WG1299-3	12/13/02	1024	19.63	4.32
16	JAX-47-SB57-	WS4555-1	12/13/02	1051	19.63	4.32
17	JAX-47-SB56-	WS4555-3	12/13/02	1145	19.63	4.32
18	JAX-47-SB16-	WS4555-4	12/13/02	1212	19.63	4.32
19	JAX-47-SB56-	WS4555-5	12/13/02	1239	19.64	4.32
20	JAX-47-SB55-	WS4555-6	12/13/02	1306	19.63	4.32

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 19.64 TCX: 4.32

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	JAX-47-IDW-S	WS4555-7	12/13/02	1334	19.64	4.32
02	EVAL	EVAL	12/13/02	1401		
03	CV	INDAB 0.05PP	12/13/02	1428	19.64	4.32
04	JAX-47-SB58-	WS4555-2	12/13/02	1609		
05	CV	INDAB 0.05PP	12/13/02	1646	19.64	4.32
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Sample Data Section

ORGANICS DATA QUALIFIERS

U	Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
*	Compound recovery outside of quality control limits.
D	Indicates it was not possible to calculate the surrogate recovery due to sample dilution.
E	Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
J	Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
B	Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
N	Presumptive evidence of a compound based on a mass spectral library search.
A	Indicates that a tentatively identified compound is a suspected aldol-condensation product.
P	Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 79.1

Lab ID: WS4555-1
Client ID: JAX-47-SB57-S01
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.1	1.0	1.7	2.1	0.86
58-89-9	gamma BHC	U	2.1	1.0	1.7	2.1	0.74
76-44-8	Heptachlor	U	2.1	1.0	1.7	2.1	0.70
319-85-7	beta-BHC	U	2.1	1.0	1.7	2.1	1.3
309-00-2	Aldrin	U	2.1	1.0	1.7	2.1	0.71
319-86-8	delta-BHC	U	2.1	1.0	1.7	2.1	0.73
1024-57-3	Heptachlor Epoxide	U	2.1	1.0	1.7	2.1	0.82
959-98-8	Endosulfan I	U	2.1	1.0	1.7	2.1	0.77
72-55-9	4,4'-DDE	J	1.6	1.0	3.3	4.2	0.78
60-57-1	Dieldrin	U	4.2	1.0	3.3	4.2	0.76
72-20-8	Endrin	U	4.2	1.0	3.3	4.2	0.72
72-54-8	4,4'-DDD	J	1.5	1.0	3.3	4.2	0.78
33213-65-9	Endosulfan II	U	4.2	1.0	3.3	4.2	0.72
50-29-3	4,4'-DDT		55	1.0	3.3	4.2	0.70
7421-36-3	Endrin Aldehyde	U	4.2	1.0	3.3	4.2	0.85
1031-07-8	Endosulfan sulfate	U	4.2	1.0	3.3	4.2	0.87
72-43-5	Methoxychlor	U	21	1.0	17	21	1.3
8001-35-2	Toxaphene	U	42	1.0	33	42	15
5103-71-9	alpha-Chlordane	U	2.1	1.0	1.7	2.1	0.87
5103-74-2	gamma-Chlordane	U	2.1	1.0	1.7	2.1	0.80
53494-70-5	Endrin Ketone	U	4.2	1.0	3.3	4.2	0.92
877-09-8	Tetrachloro-m-Xylene		88%				
2051-24-3	Decachlorobiphenyl		99%				

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

JAX-47-SB57-S01

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab Sample ID: WS4555-1 Date(s) Analyzed: 12/13/02 12/13/02

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	7.33	7.26	7.40	1.64	
	2	9.51	9.44	9.58	1.47	10.4
4,4'-DDD	1	8.45	8.38	8.52	1.47	
	2	11.37	11.30	11.44	1.44	2.0
4,4'-DDT	1	9.09	9.02	9.16	54.8	
	2	12.63	12.56	12.70	51.5	6.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1111.d
Lab Smp Id: WS4555-1 Client Smp ID: JAX-47-SB57-S01
Inj Date : 13-DEC-2002 10:51
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-1
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 14:32 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

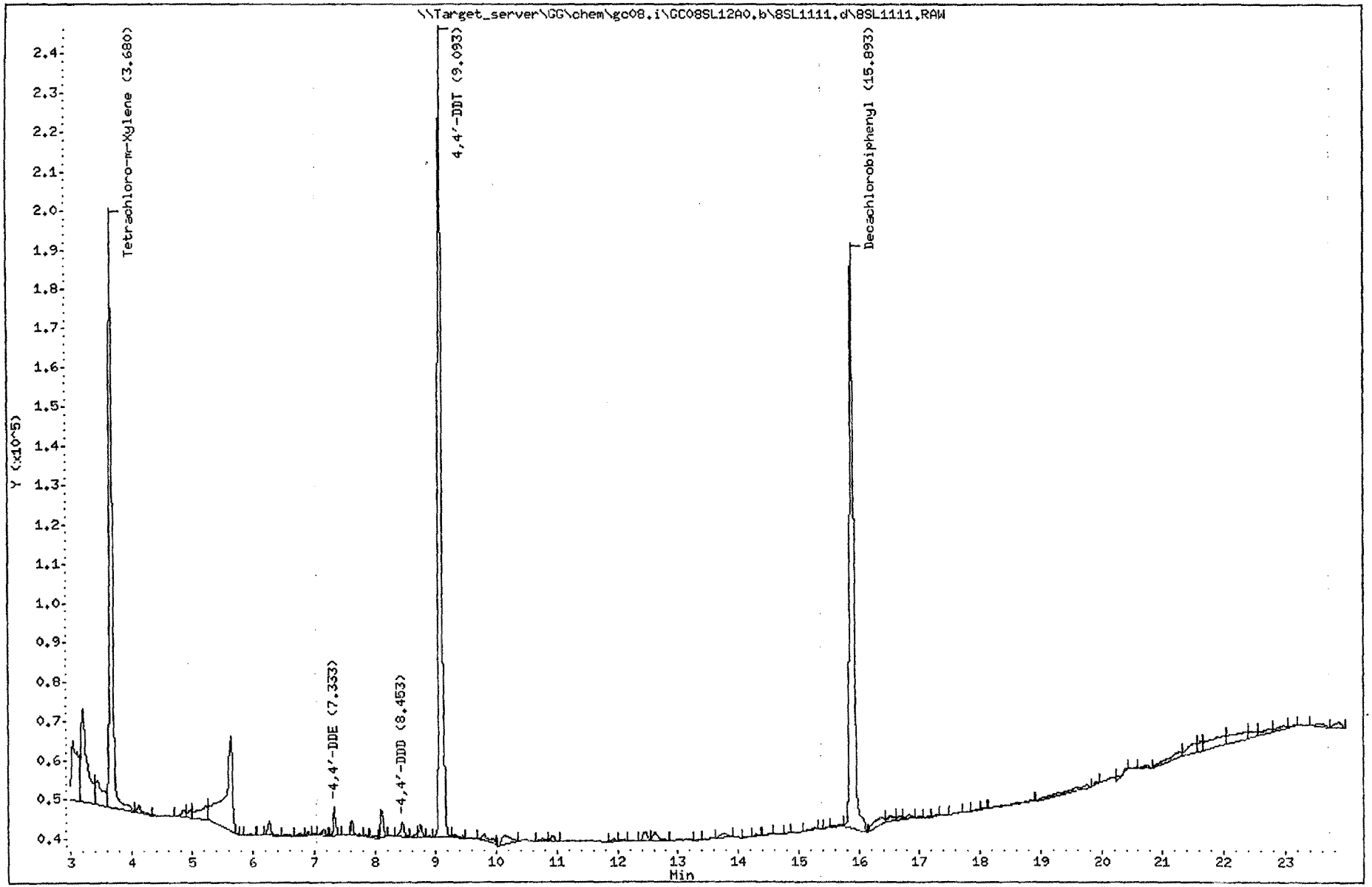
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	20.878	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	152643	0.08794	37.0
11 4,4'-DDE	7.333	7.333	0.000	7273	0.00390	1.64(a)
15 4,4'-DDD	8.453	8.453	0.000	3634	0.00350	1.47(a)
17 4,4'-DDT	9.093	9.093	0.000	206990	0.13008	54.8
$ 22 Decachlorobiphenyl	15.893	15.893	0.000	149737	0.09882	41.6

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1111.d
Date : 13-DEC-2002 10:51
Client ID: JAX-47-SB57-S01
Instrument: gc08.i
Sample Info: PSTA051A.M,GC08SL12A0.B,1,WS4555-1
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000014

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2111.d
Lab Smp Id: WS4555-1 Client Smp ID: JAX-47-SB57-S01
Inj Date : 13-DEC-2002 10:51
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-1
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 14:34 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	20.878	% Moisture
Cpnd Variable		Local Compound Variable

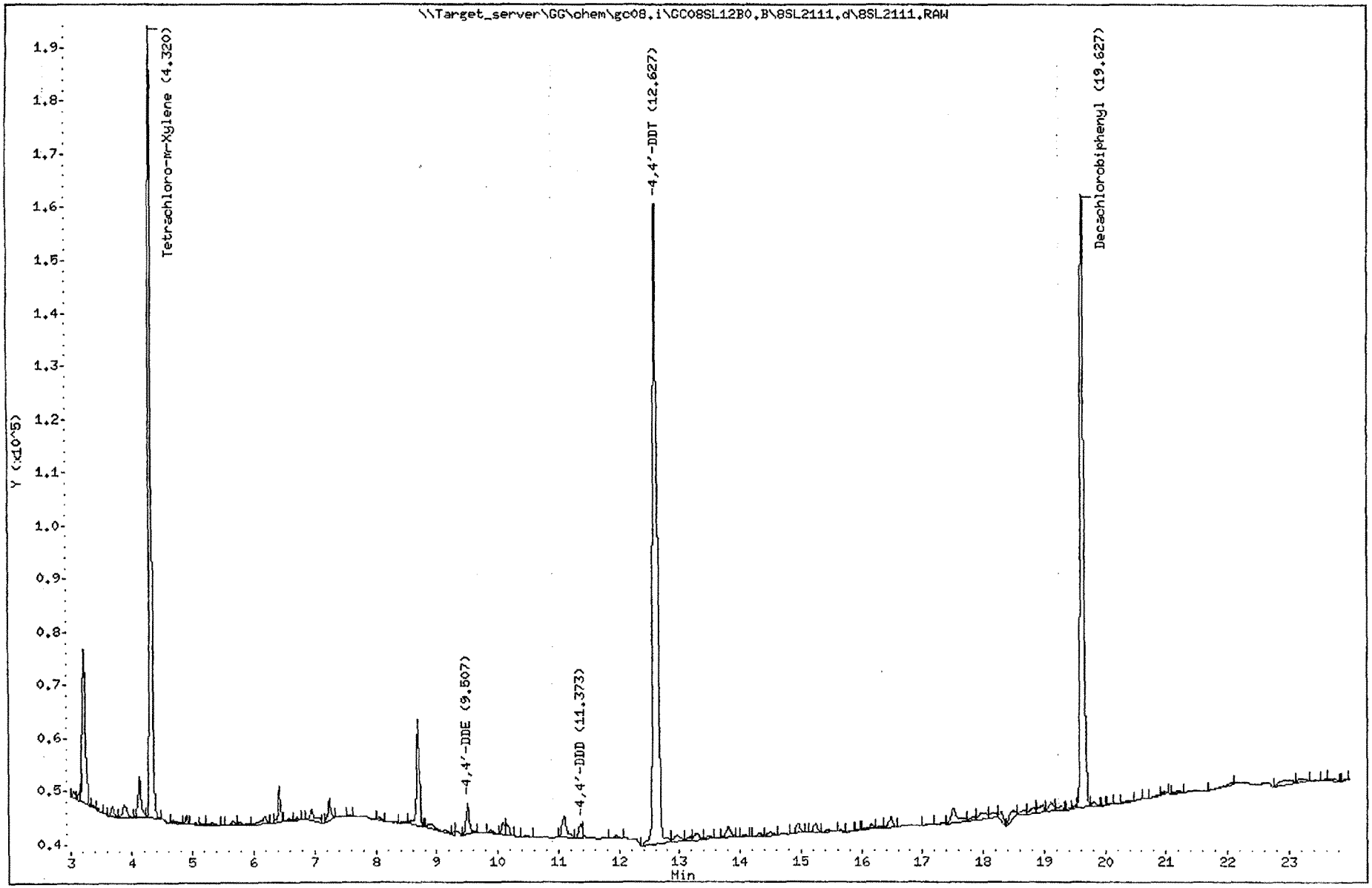
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	149082	0.08643	36.4
11 4,4'-DDE	9.506	9.506	0.000	5755	0.00349	1.47(a)
15 4,4'-DDD	11.373	11.373	0.000	2702	0.00343	1.44(a)
17 4,4'-DDT	12.626	12.626	0.000	120817	0.12219	51.5
$ 22 Decachlorobiphenyl	19.626	19.640	-0.014	115631	0.09366	39.4

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2111.d
Date : 13-DEC-2002 10:51
Client ID: JAX-47-SB57-S01
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WS4555-1
Purge Volume: 0.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000016

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 74.9

Lab ID: WS4555-2
Client ID: JAX-47-SB58-S01
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2300	1000	1.7	2300	910
58-89-9	gamma BHC	U	2300	1000	1.7	2300	790
76-44-8	Heptachlor	U	2300	1000	1.7	2300	730
319-85-7	beta-BHC	U	2300	1000	1.7	2300	1400
309-00-2	Aldrin	U	2300	1000	1.7	2300	750
319-86-8	delta-BHC	U	2300	1000	1.7	2300	770
1024-57-3	Heptachlor Epoxide	U	2300	1000	1.7	2300	870
959-98-8	Endosulfan I	U	2300	1000	1.7	2300	810
72-55-9	4,4'-DDE	J	2200	1000	3.3	4400	830
60-57-1	Dieldrin	U	4400	1000	3.3	4400	800
72-20-8	Endrin	U	4400	1000	3.3	4400	760
72-54-8	4,4'-DDD	J	2400	1000	3.3	4400	830
33213-65-9	Endosulfan II	U	4400	1000	3.3	4400	760
50-29-3	4,4'-DDT		53000	1000	3.3	4400	730
7421-36-3	Endrin Aldehyde	U	4400	1000	3.3	4400	890
1031-07-8	Endosulfan sulfate	U	4400	1000	3.3	4400	920
72-43-5	Methoxychlor	U	23000	1000	17	23000	1400
8001-35-2	Toxaphene	U	44000	1000	33	44000	16000
5103-71-9	alpha-Chlordane	U	2300	1000	1.7	2300	920
5103-74-2	gamma-Chlordane	U	2300	1000	1.7	2300	840
53494-70-5	Endrin Ketone	U	4400	1000	3.3	4400	970
877-09-8	Tetrachloro-m-Xylene		D				
2051-24-3	Decachlorobiphenyl		D				

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

JAX-47-SB58-S01

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab Sample ID: WS4555-2 Date(s) Analyzed: 12/13/02 12/13/02

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	7.36	7.26	7.40	2160	
	2	9.51	9.44	9.58	1960	9.2
4,4'-DDD	1	8.48	8.38	8.52	2440	
	2	11.37	11.30	11.44	2400	1.6
4,4'-DDT	1	9.13	9.02	9.16	52800	
	2	12.63	12.56	12.70	49900	5.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1121.d
Lab Smp Id: WS4555-2 Client Smp ID: JAX-47-SB58-S01
Inj Date : 13-DEC-2002 16:09
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1000,WS4555-2
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1
Dil Factor: 1000.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1000.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	25.082	% Moisture
Cpnd Variable		Local Compound Variable

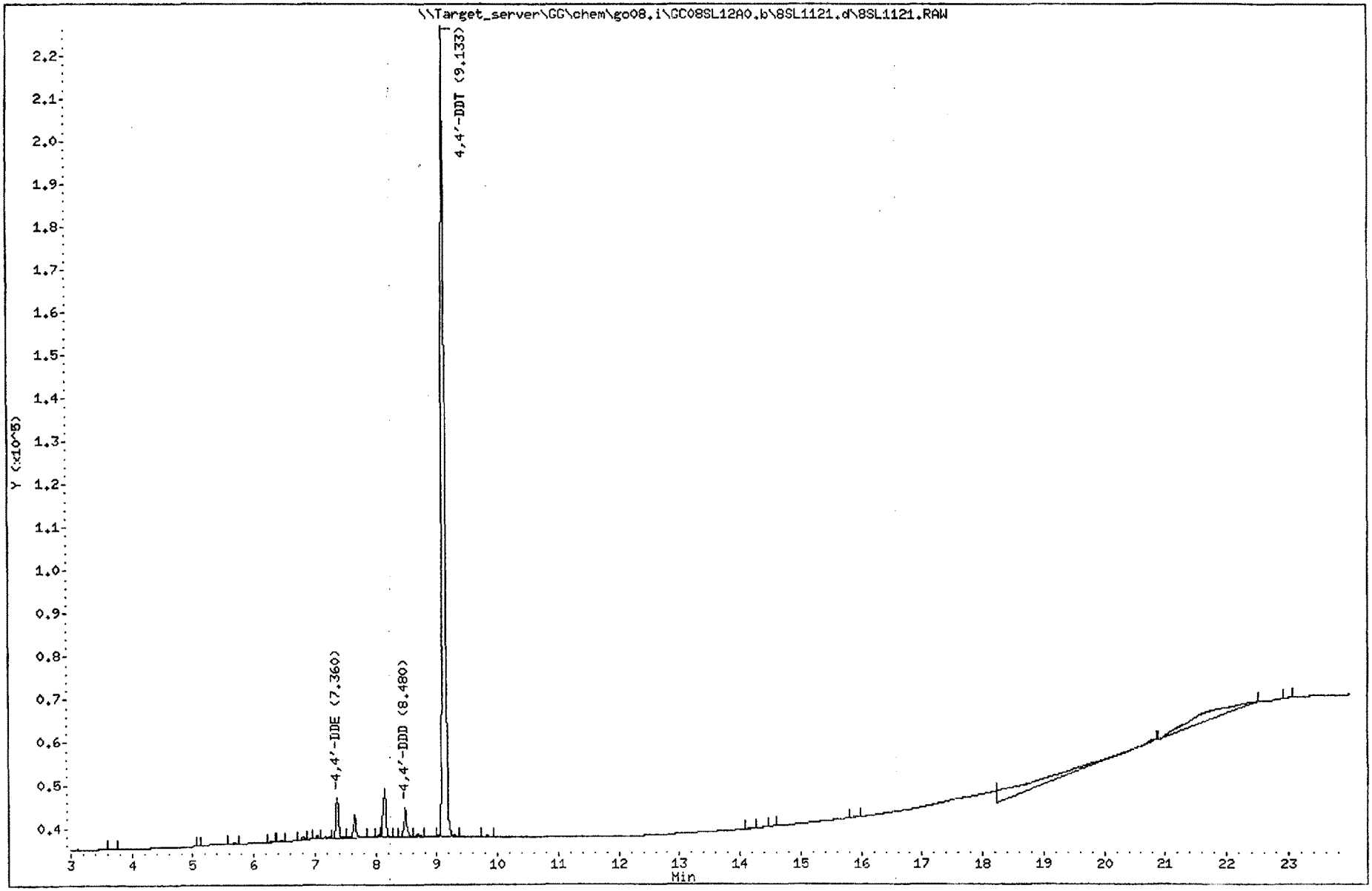
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
11 4,4'-DDE	7.360	7.333	0.027	9358	0.00485	2160 (aM)
15 4,4'-DDD	8.480	8.453	0.027	6660	0.00549	2440 (a)
17 4,4'-DDT	9.133	9.093	0.040	188953	0.11857	52800

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1121.d
Date : 13-DEC-2002 16:09
Client ID: JAX-47-SB58-S01
Sample Info: PSTA051A.M,GC08SL12A0,B,1000,WS4555-2
Purge Volume: 0.0
Column phase: RTX-CLPI

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000020

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2121.d
Lab Smp Id: WS4555-2 Client Smp ID: JAX-47-SB58-S01
Inj Date : 13-DEC-2002 16:09
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1000,WS4555-2
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 16-Dec-2002 07:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1
Dil Factor: 1000.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1000.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	25.082	% Moisture
Cpnd Variable		Local Compound Variable

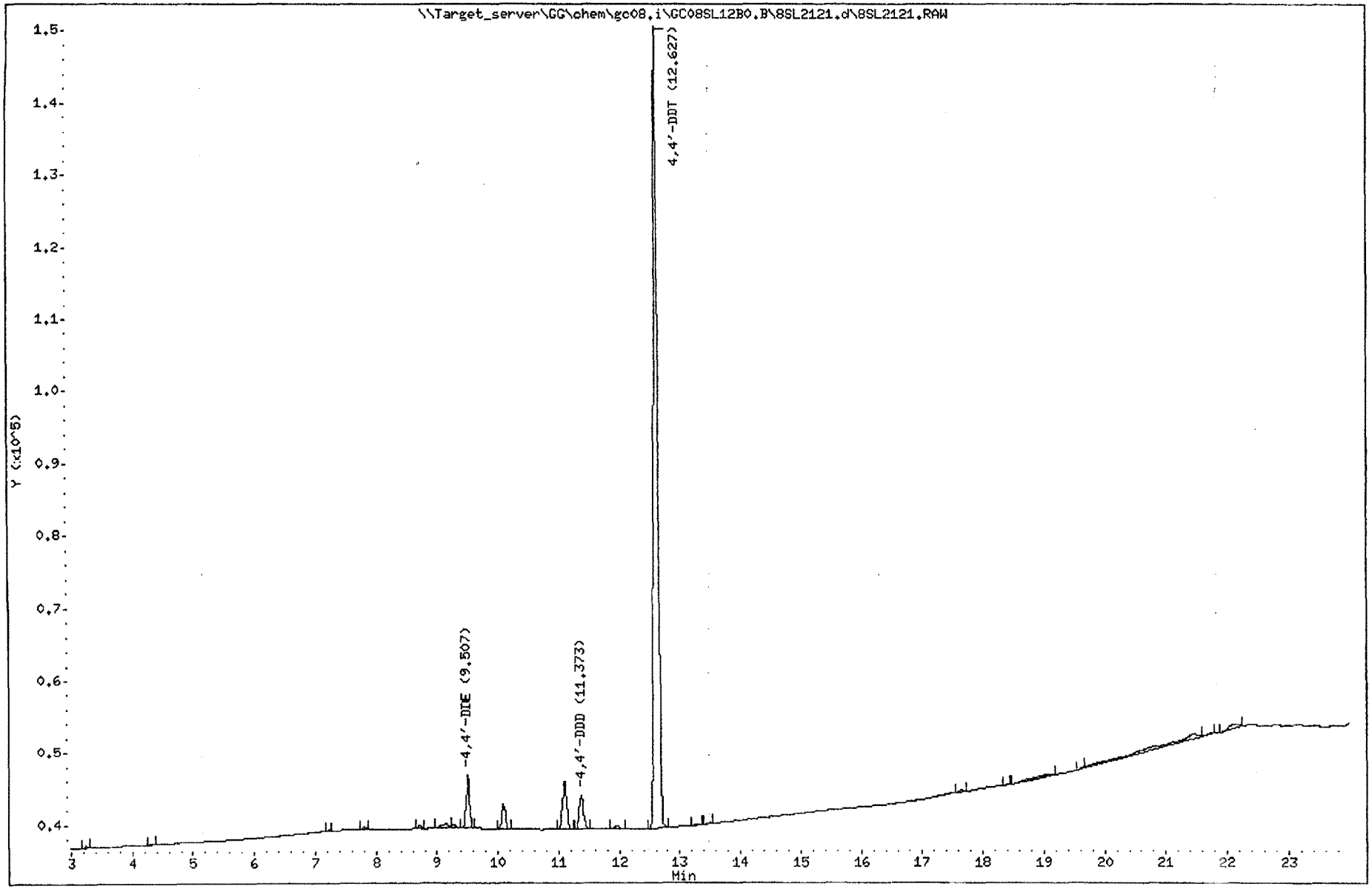
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
11 4,4'-DDE	9.506	9.506	0.000	7267	0.00442	1960(a)
15 4,4'-DDD	11.373	11.373	0.000	4637	0.00541	2400(a)
17 4,4'-DDT	12.626	12.626	0.000	111183	0.11215	49900

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2121.d
Date : 13-DEC-2002 16:09
Client ID: JAX-47-SB58-S01
Sample Info: PSTA051A,M,GC08SL12A0.B,1000,WS4555-2
Purge Volume: 0.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000022

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 89.4

Lab ID: WS4555-3
Client ID: JAX-47-SB56-S02
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.76
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.66
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.62
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	1.1
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	0.63
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	0.65
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.73
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.68
72-55-9	4,4'-DDE	U	3.7	1.0	3.3	3.7	0.69
60-57-1	Dieldrin	U	3.7	1.0	3.3	3.7	0.67
72-20-8	Endrin	U	3.7	1.0	3.3	3.7	0.64
72-54-8	4,4'-DDD	U	3.7	1.0	3.3	3.7	0.69
33213-65-9	Endosulfan II	U	3.7	1.0	3.3	3.7	0.64
50-29-3	4,4'-DDT	J	1.0	1.0	3.3	3.7	0.62
7421-36-3	Endrin Aldehyde	U	3.7	1.0	3.3	3.7	0.75
1031-07-8	Endosulfan sulfate	U	3.7	1.0	3.3	3.7	0.77
72-43-5	Methoxychlor	U	19	1.0	17	19	1.1
8001-35-2	Toxaphene	U	37	1.0	33	37	13
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	0.77
5103-74-2	gamma-Chlordane	U	1.9	1.0	1.7	1.9	0.70
53494-70-5	Endrin Ketone	U	3.7	1.0	3.3	3.7	0.82
877-09-8	Tetrachloro-m-Xylene		92%				
2051-24-3	Decachlorobiphenyl		104%				

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

JAX-47-SB56-S02

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab Sample ID: WS4555-3 Date(s) Analyzed: 12/13/02 12/13/02

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	9.09	9.02	9.16	1.00	
	2	12.63	12.56	12.70	0.942	5.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1113.d
Lab Smp Id: WS4555-3 Client Smp ID: JAX-47-SB56-S02
Inj Date : 13-DEC-2002 11:45
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-3
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 14:32 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

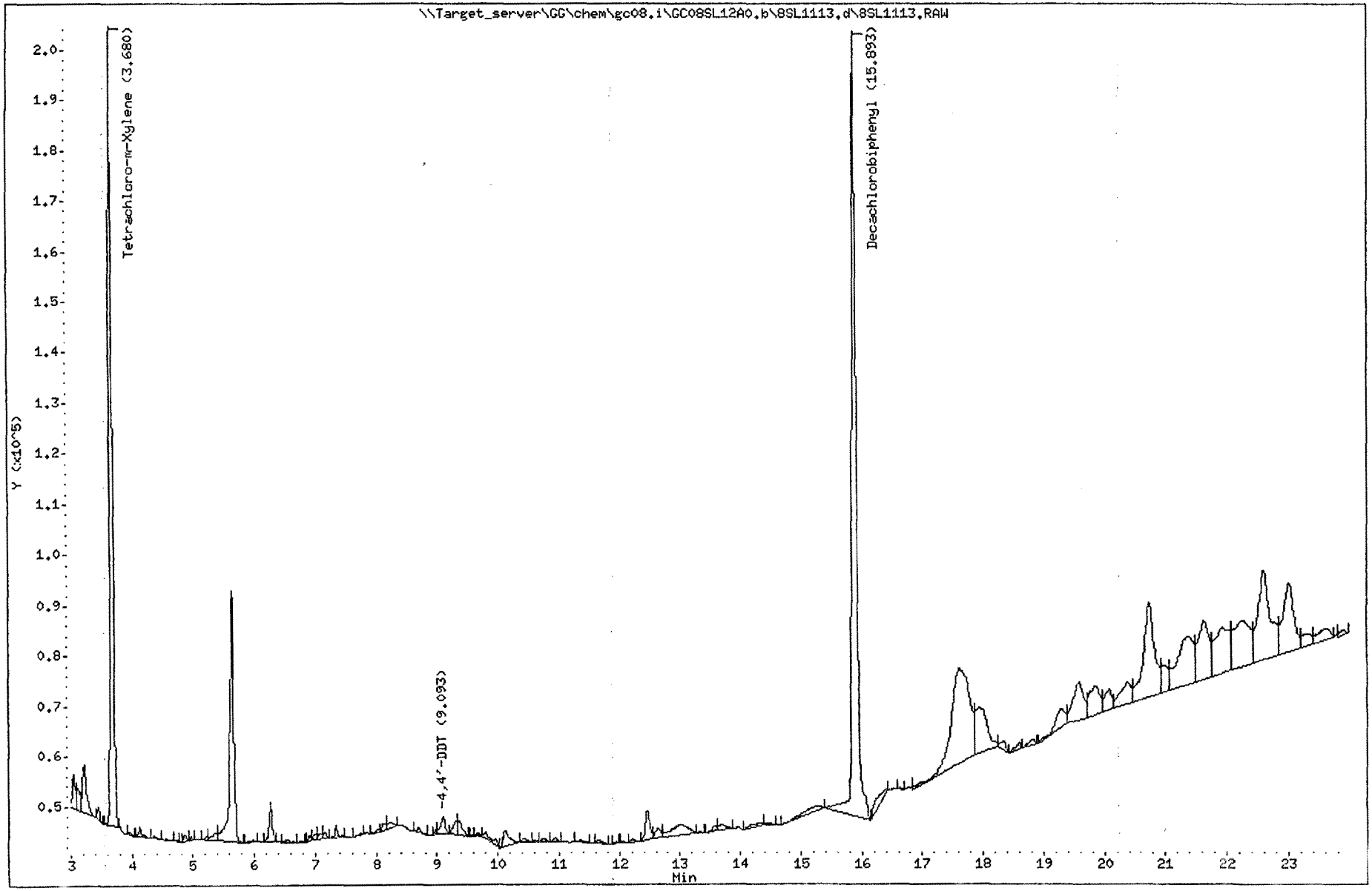
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	10.639	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	158573	0.09157	34.2
17 4,4'-DDT	9.093	9.093	0.000	3399	0.00269	1.00(a)
$ 22 Decachlorobiphenyl	15.893	15.893	0.000	156104	0.10357	38.6

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1113.d
Date : 13-DEC-2002 11:45
Client ID: JAX-47-SB56-S02
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WS4555-3
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000026

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2113.d
Lab Smp Id: WS4555-3 Client Smp ID: JAX-47-SB56-S02
Inj Date : 13-DEC-2002 11:45
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-3
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 14:34 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	10.639	% Moisture
Cpnd Variable		Local Compound Variable

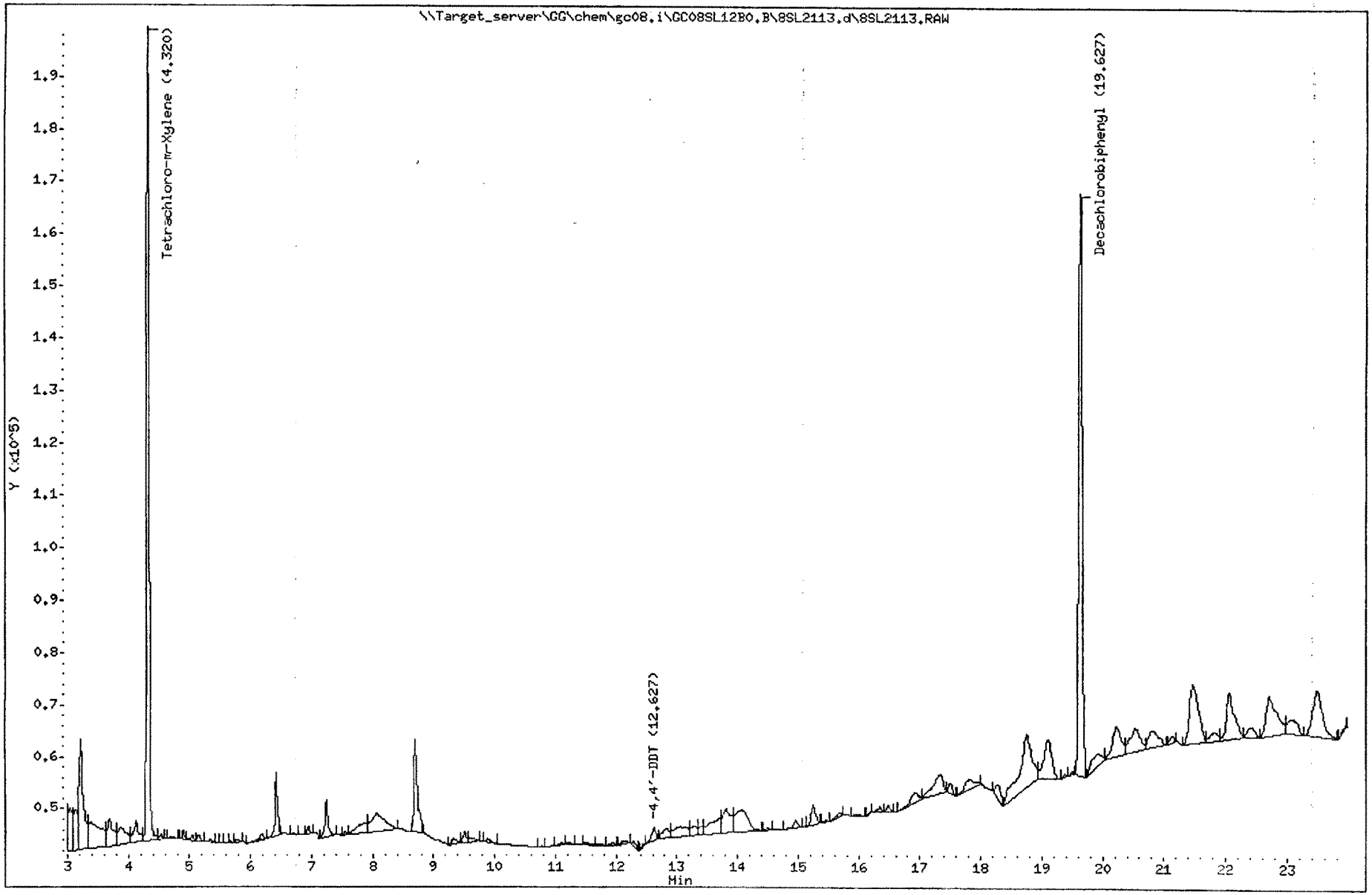
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	155595	0.09046	33.7
17 4,4'-DDT	12.626	12.626	0.000	2333	0.00253	0.942(a)
$ 22 Decachlorobiphenyl	19.626	19.640	-0.014	111389	0.08980	33.5

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2113.d
Date : 13-DEC-2002 11:45
Client ID: JAX-47-SB56-S02
Sample Info: PSTA051A.M,GC08SL12A0.B,1,WS4555-3
Purge Volume: 0.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000028

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 80.0

Lab ID: WS4555-4
Client ID: JAX-47-SB16-S02
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.1	1.0	1.7	2.1	0.85
58-89-9	gamma BHC	U	2.1	1.0	1.7	2.1	0.74
76-44-8	Heptachlor	U	2.1	1.0	1.7	2.1	0.69
319-85-7	beta-BHC	U	2.1	1.0	1.7	2.1	1.3
309-00-2	Aldrin	U	2.1	1.0	1.7	2.1	0.70
319-86-8	delta-BHC	U	2.1	1.0	1.7	2.1	0.72
1024-57-3	Heptachlor Epoxide	U	2.1	1.0	1.7	2.1	0.81
959-98-8	Endosulfan I	U	2.1	1.0	1.7	2.1	0.76
72-55-9	4,4'-DDE	J	3.0	1.0	3.3	4.1	0.77
60-57-1	Dieldrin	J	0.81	1.0	3.3	4.1	0.75
72-20-8	Endrin	U	4.1	1.0	3.3	4.1	0.71
72-54-8	4,4'-DDD		4.1	1.0	3.3	4.1	0.77
33213-65-9	Endosulfan II	U	4.1	1.0	3.3	4.1	0.71
50-29-3	4,4'-DDT		5.1	1.0	3.3	4.1	0.69
7421-36-3	Endrin Aldehyde	U	4.1	1.0	3.3	4.1	0.84
1031-07-8	Endosulfan sulfate	U	4.1	1.0	3.3	4.1	0.86
72-43-5	Methoxychlor	U	21	1.0	17	21	1.3
8001-35-2	Toxaphene	U	41	1.0	33	41	14
5103-71-9	alpha-Chlordane	U	2.1	1.0	1.7	2.1	0.86
5103-74-2	gamma-Chlordane	U	2.1	1.0	1.7	2.1	0.79
53494-70-5	Endrin Ketone	U	4.1	1.0	3.3	4.1	0.91
877-09-8	Tetrachloro-m-Xylene		86%				
2051-24-3	Decachlorobiphenyl		100%				

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

JAX-47-SB16-S02

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab Sample ID: WS4555-4 Date(s) Analyzed: 12/13/02 12/13/02

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	7.33	7.26	7.40	2.99	
	2	9.51	9.44	9.58	2.77	7.4
Dieldrin	1	7.81	7.74	7.88	0.807	
	2	9.96	9.89	10.03	0.766	5.1
4,4'-DDD	1	8.45	8.38	8.52	4.14	
	2	11.37	11.30	11.44	3.93	5.1
4,4'-DDT	1	9.09	9.02	9.16	5.12	
	2	12.63	12.56	12.70	4.93	3.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1114.d
Lab Smp Id: WS4555-4 Client Smp ID: JAX-47-SB16-S02
Inj Date : 13-DEC-2002 12:12
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-4
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 14:32 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

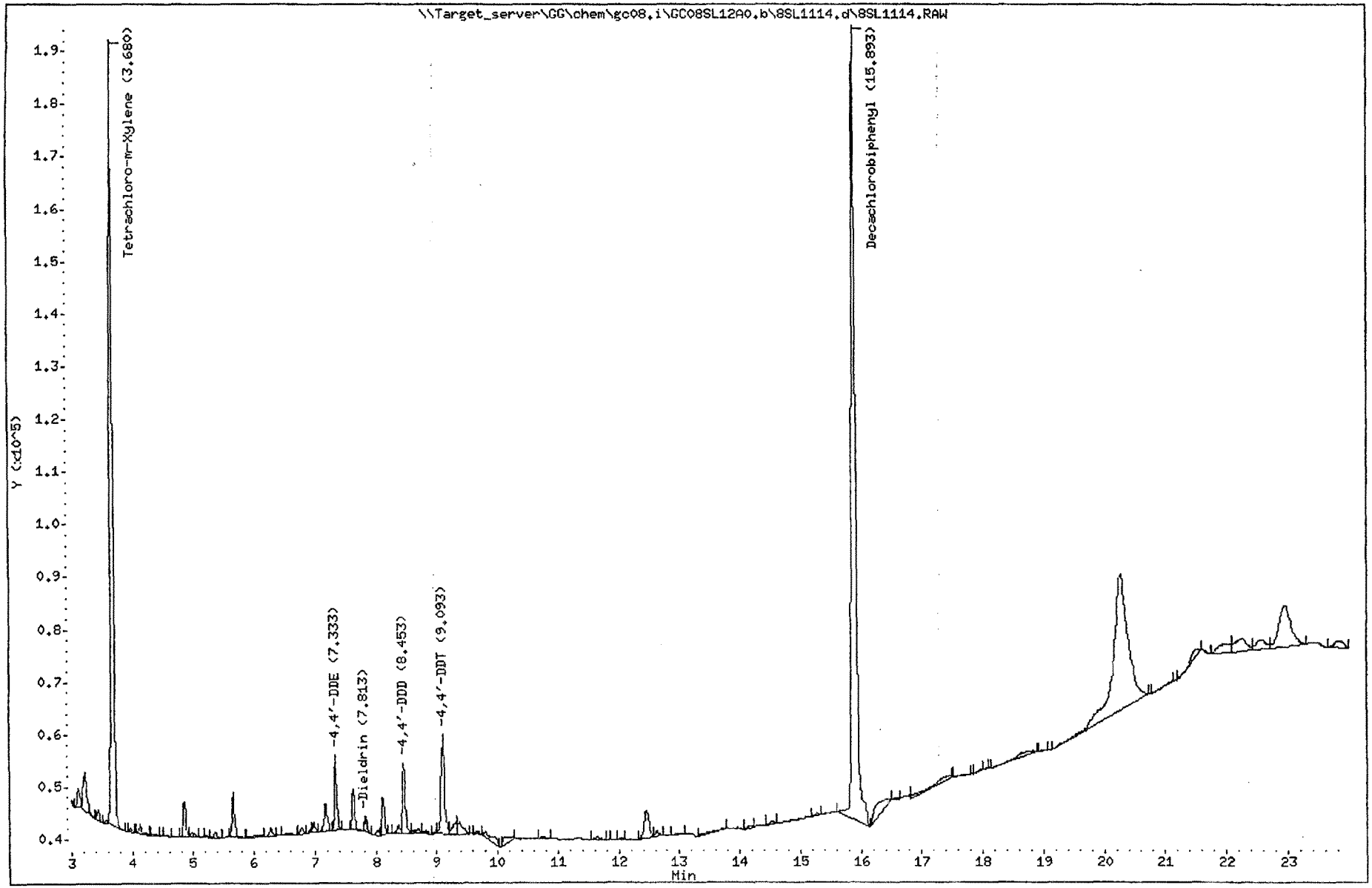
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	19.986	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	149434	0.08598	35.8
11 4,4'-DDE	7.333	7.333	0.000	14490	0.00717	2.99(a)
13 Dieldrin	7.813	7.813	0.000	2925	0.00194	0.807(a)
15 4,4'-DDD	8.453	8.453	0.000	13406	0.00995	4.14
17 4,4'-DDT	9.093	9.093	0.000	19071	0.01230	5.12
$ 22 Decachlorobiphenyl	15.893	15.893	0.000	151366	0.10003	41.7

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1114.d
Date : 13-DEC-2002 12:12
Client ID: JAX-47-SB16-S02
Instrument: gc08.i
Sample Info: PSTA051A.M,GC08SL12A0.B,1,WS4555-4
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000032

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2114.d
Lab Smp Id: WS4555-4 Client Smp ID: JAX-47-SB16-S02
Inj Date : 13-DEC-2002 12:12
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-4
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTb051A.m
Meth Date : 13-Dec-2002 14:34 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	19.986	% Moisture
Cpnd Variable		Local Compound Variable

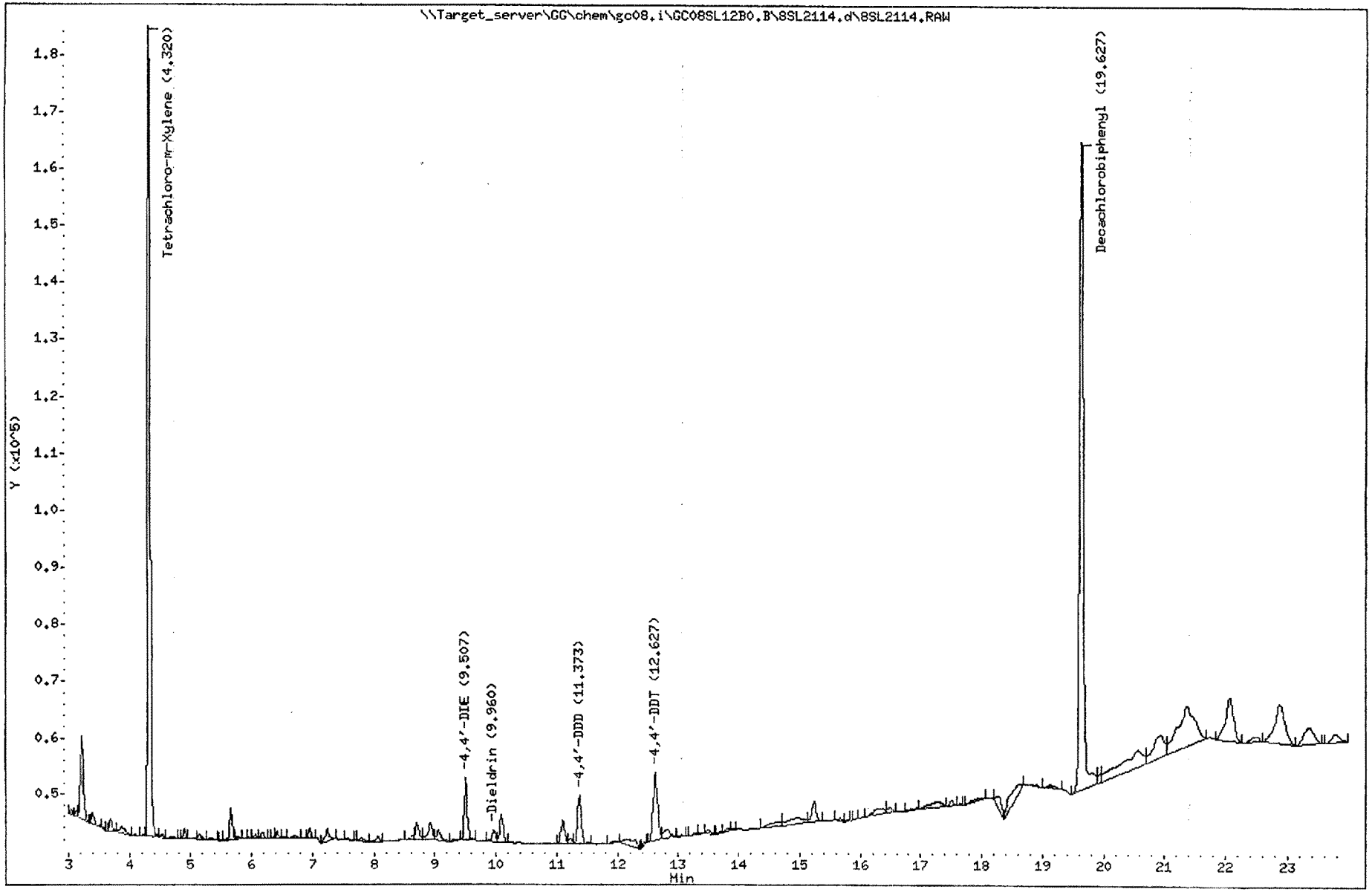
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	142348	0.08228	34.3
11 4,4'-DDE	9.506	9.506	0.000	10918	0.00665	2.77(a)
13 Dieldrin	9.960	9.960	0.000	2102	0.00184	0.766(a)
15 4,4'-DDD	11.373	11.373	0.000	8573	0.00943	3.93(a)
17 4,4'-DDT	12.626	12.626	0.000	11854	0.01183	4.93
$ 22 Decachlorobiphenyl	19.626	19.640	-0.014	114186	0.09234	38.5

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2114.d
Date : 13-DEC-2002 12:12
Client ID: JAX-47-SB16-S02
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WS4555-4
Purge Volume: 0.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000034

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 91.5

Lab ID: WS4555-5
Client ID: JAX-47-SB56-S01
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.74
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.64
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.60
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	1.1
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	0.61
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	0.63
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.71
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.67
72-55-9	4,4'-DDE	U	3.6	1.0	3.3	3.6	0.68
60-57-1	Dieldrin	U	3.6	1.0	3.3	3.6	0.66
72-20-8	Endrin	U	3.6	1.0	3.3	3.6	0.62
72-54-8	4,4'-DDD	U	3.6	1.0	3.3	3.6	0.68
33213-65-9	Endosulfan II	U	3.6	1.0	3.3	3.6	0.62
50-29-3	4,4'-DDT	J	1.8	1.0	3.3	3.6	0.60
7421-36-3	Endrin Aldehyde	U	3.6	1.0	3.3	3.6	0.73
1031-07-8	Endosulfan sulfate	U	3.6	1.0	3.3	3.6	0.75
72-43-5	Methoxychlor	U	18	1.0	17	18	1.1
8001-35-2	Toxaphene	U	36	1.0	33	36	13
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	0.75
5103-74-2	gamma-Chlordane	U	1.8	1.0	1.7	1.8	0.69
53494-70-5	Endrin Ketone	U	3.6	1.0	3.3	3.6	0.80
877-09-8	Tetrachloro-m-Xylene		* 97%				
2051-24-3	Decachlorobiphenyl		99%				

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

JAX-47-SB56-S01

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab Sample ID: WS4555-5 Date(s) Analyzed: 12/13/02 12/13/02

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	9.09	9.02	9.16	1.78	
	2	12.63	12.56	12.70	1.44	19.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

Katahdin Analytical Services 3000036

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1115.d
Lab Smp Id: WS4555-5 Client Smp ID: JAX-47-SB56-S01
Inj Date : 13-DEC-2002 12:39
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-5
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 14:32 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	8.493	% Moisture
Cpnd Variable		Local Compound Variable

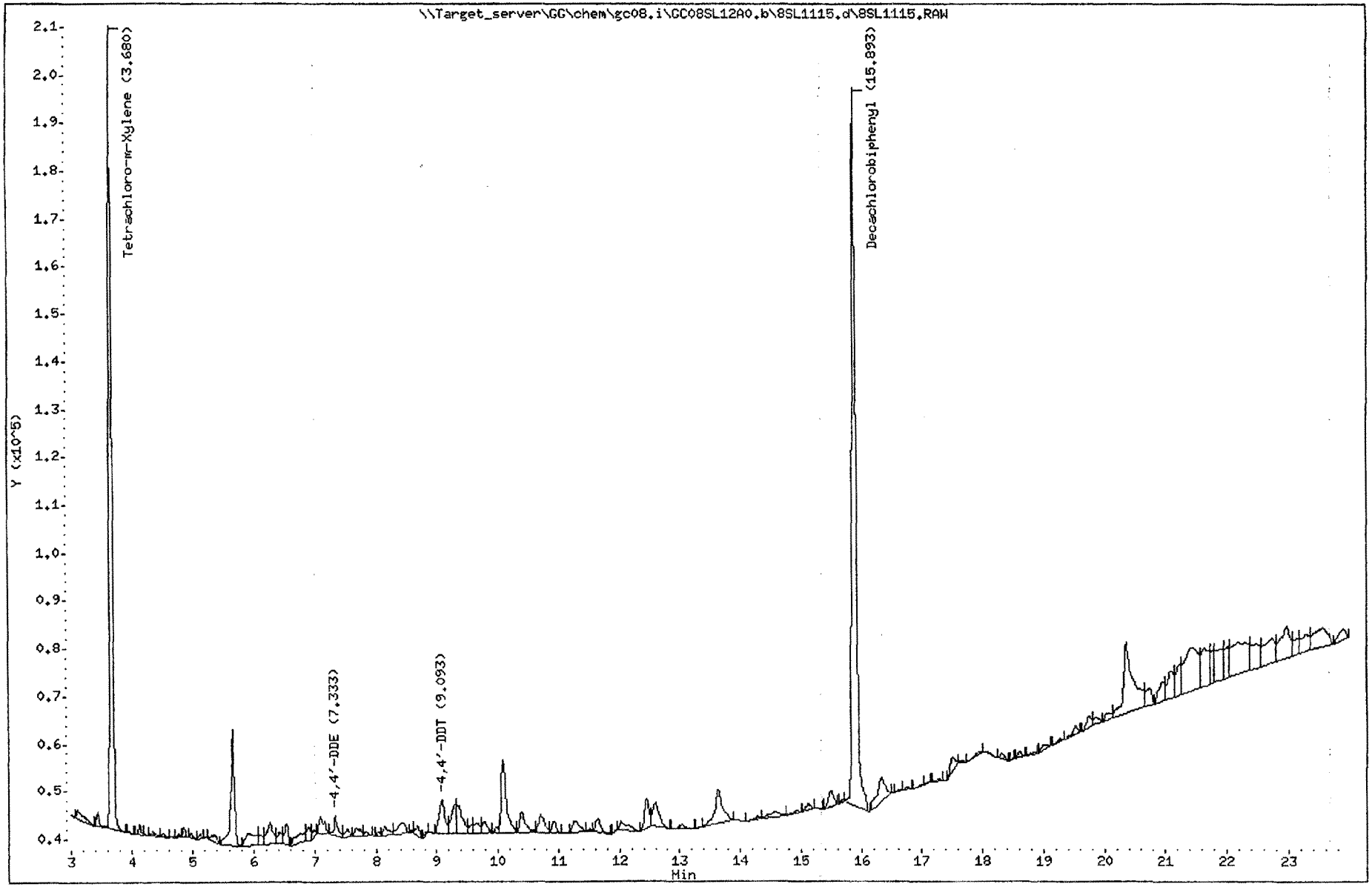
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	168005	0.09738	35.5(R)
11 4,4'-DDE	7.333	7.333	0.000	4140	0.00249	~~0.906(aM)~~ <MDL
17 4,4'-DDT	9.093	9.093	0.000	6990	0.00489	1.78(a)
$ 22 Decachlorobiphenyl	15.893	15.893	0.000	150583	0.09944	36.2

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1115.d
Date : 13-DEC-2002 12:39
Client ID: JAX-47-SB56-S01
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WS4555-5
Purge Volume: 0.0
Column phase: RTX-CLPI

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000038

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2115.d
Lab Smp Id: WS4555-5 Client Smp ID: JAX-47-SB56-S01
Inj Date : 13-DEC-2002 12:39
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-5
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTb051A.m
Meth Date : 13-Dec-2002 14:34 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

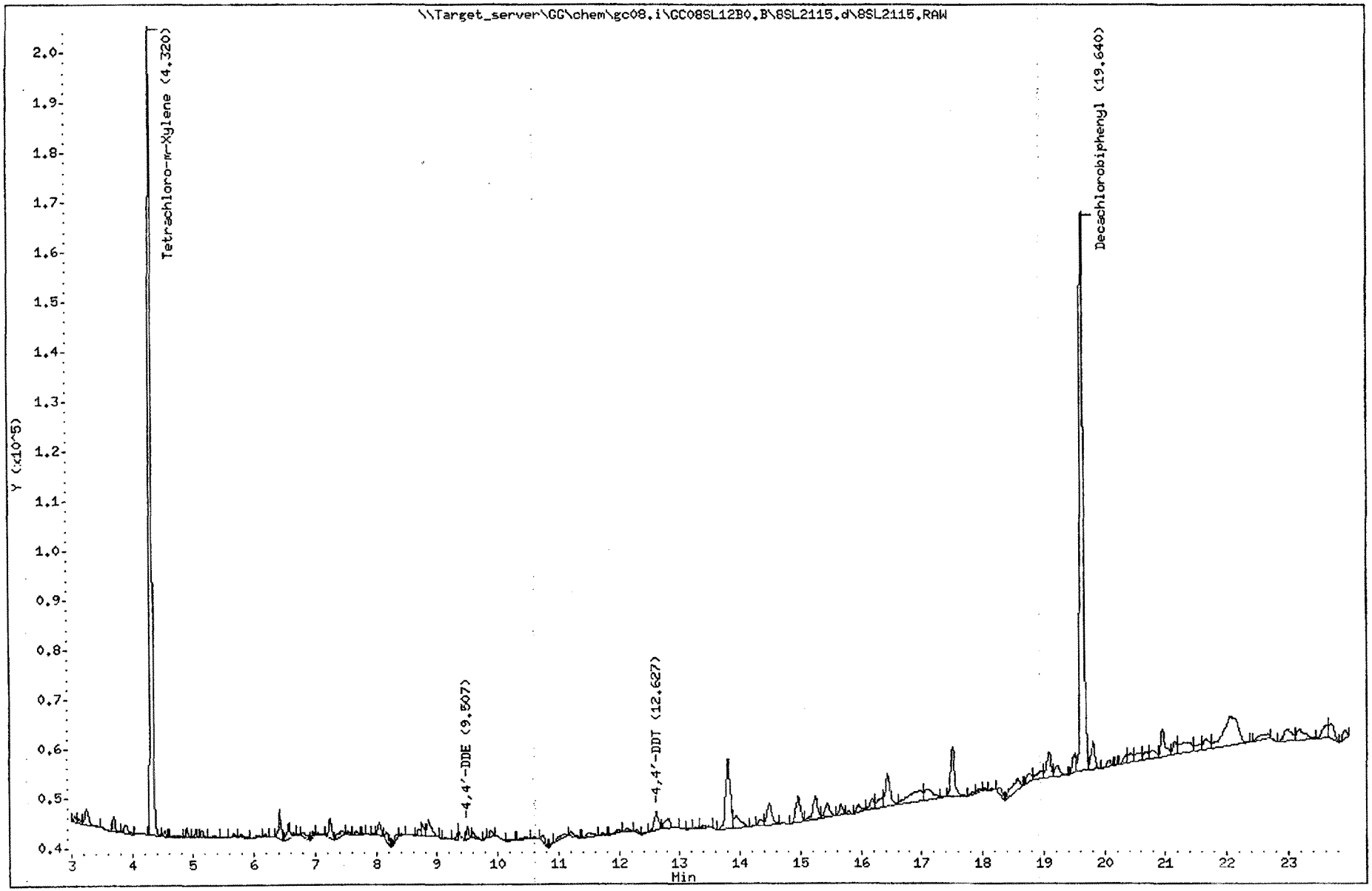
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	8.493	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	162601	0.09481	34.5(R)
17 4,4'-DDT	12.626	12.626	0.000	3800	0.00396	1.44(a)
$ 22 Decachlorobiphenyl	19.640	19.640	0.000	113068	0.09133	33.3

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2115.d
Date : 13-DEC-2002 12:39
Client ID: JAX-47-SB56-S01
Instrument: gc08.i
Sample Info: PSTA051A.M,GC08SL12A0.B,1,WS4555-5
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000040

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 90.5

Lab ID: WS4555-6
Client ID: JAX-47-SB55-S01
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.75
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.65
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.61
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	1.1
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	0.62
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	0.64
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.72
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.67
72-55-9	4,4'-DDE	J	2.7	1.0	3.3	3.6	0.68
60-57-1	Dieldrin	U	3.6	1.0	3.3	3.6	0.66
72-20-8	Endrin	U	3.6	1.0	3.3	3.6	0.63
72-54-8	4,4'-DDD	U	3.6	1.0	3.3	3.6	0.68
33213-65-9	Endosulfan II	U	3.6	1.0	3.3	3.6	0.63
50-29-3	4,4'-DDT		4.1	1.0	3.3	3.6	0.61
7421-36-3	Endrin Aldehyde	U	3.6	1.0	3.3	3.6	0.74
1031-07-8	Endosulfan sulfate	U	3.6	1.0	3.3	3.6	0.76
72-43-5	Methoxychlor	U	19	1.0	17	19	1.1
8001-35-2	Toxaphene	U	36	1.0	33	36	13
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	0.76
5103-74-2	gamma-Chlordane	U	1.9	1.0	1.7	1.9	0.70
53494-70-5	Endrin Ketone	U	3.6	1.0	3.3	3.6	0.81
877-09-8	Tetrachloro-m-Xylene		*101%				
2051-24-3	Decachlorobiphenyl		101%				

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

JAX-47-SB55-S01

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Lab Sample ID: WS4555-6 Date(s) Analyzed: 12/13/02 12/13/02

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	7.33	7.26	7.40	2.68	
	2	9.51	9.44	9.58	2.32	13.4
4,4'-DDT	1	9.09	9.02	9.16	4.11	
	2	12.63	12.56	12.70	3.95	3.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1116.d
Lab Smp Id: WS4555-6 Client Smp ID: JAX-47-SB55-S01
Inj Date : 13-DEC-2002 13:06
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-6
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 14:32 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

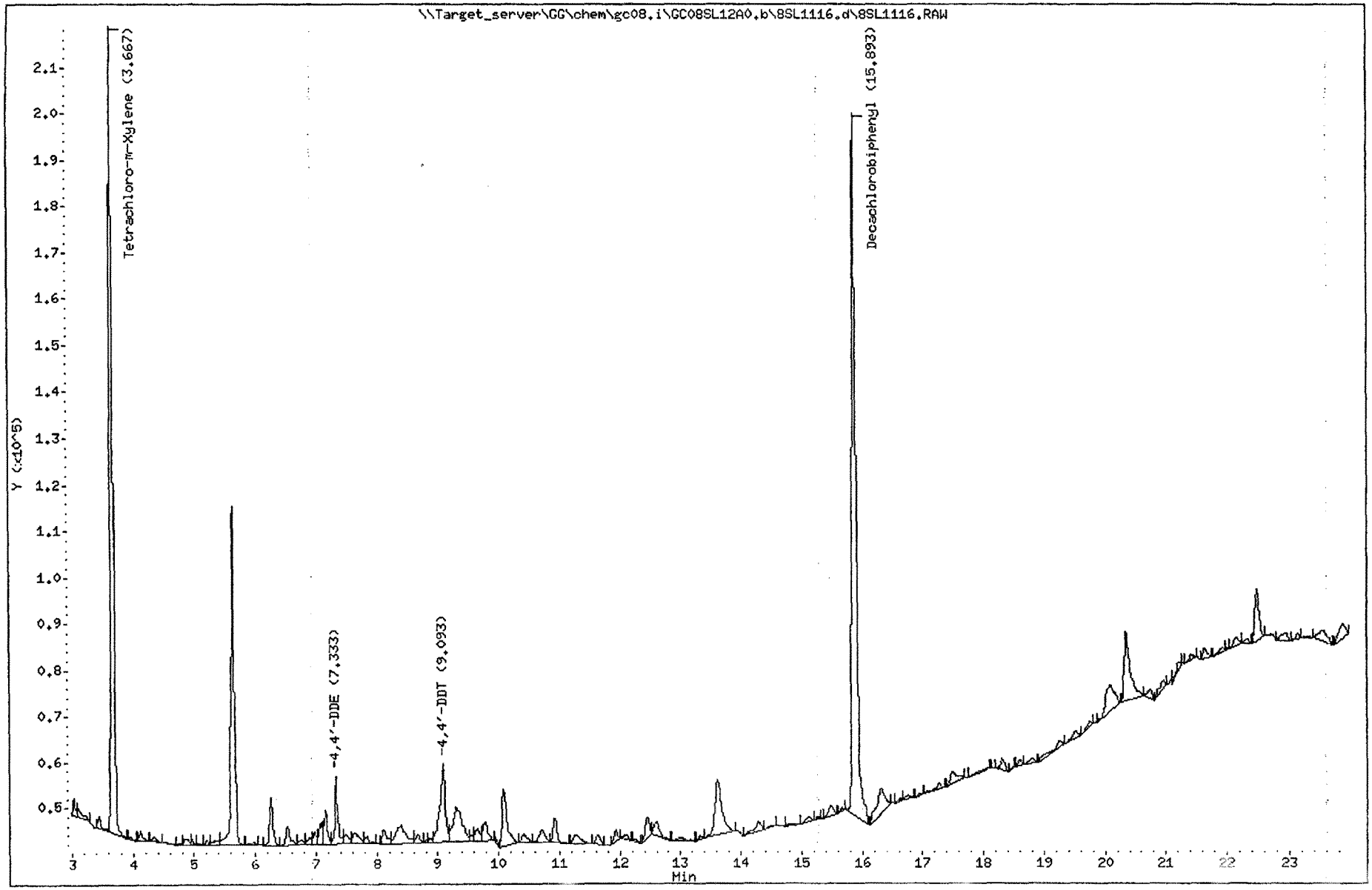
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	9.511	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.666	3.666	0.000	174201	0.10122	37.3(R)
11 4,4'-DDE	7.333	7.333	0.000	14718	0.00727	2.68(a)
17 4,4'-DDT	9.093	9.093	0.000	17189	0.01115	4.11
$ 22 Decachlorobiphenyl	15.893	15.893	0.000	152432	0.10082	37.1

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1116.d
Date : 13-DEC-2002 13:06
Client ID: JAX-47-SB55-S01
Instrument: gc08.i
Sample Info: PSTA051A.M,GC08SL12A0.B,1,WS4555-6
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000044

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2116.d
Lab Smp Id: WS4555-6 Client Smp ID: JAX-47-SB55-S01
Inj Date : 13-DEC-2002 13:06
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-6
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTb051A.m
Meth Date : 13-Dec-2002 14:34 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

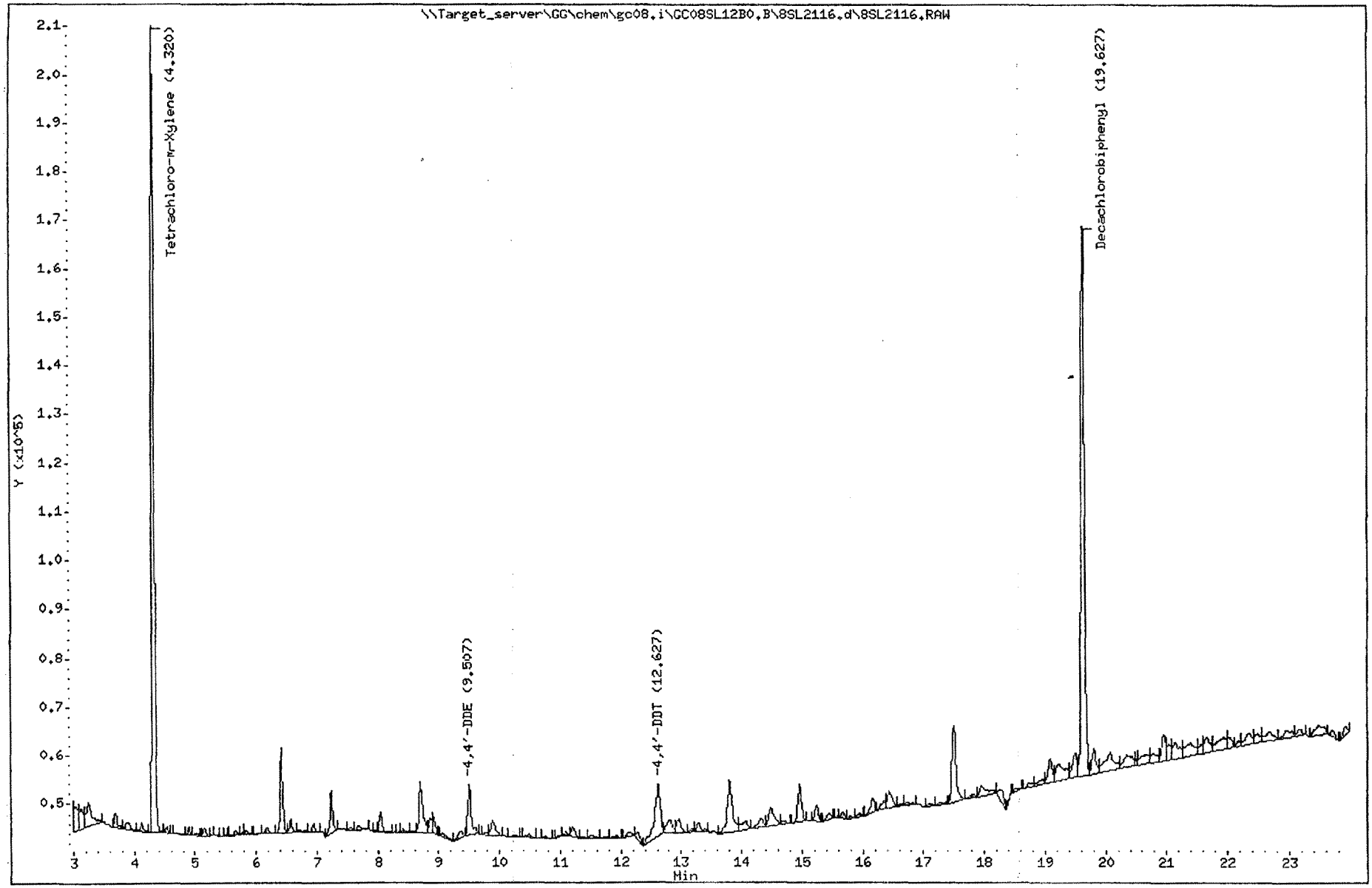
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	9.511	% Moisture
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/Kg)
$ 1	Tetrachloro-m-Xylene	4.320	4.320	0.000	165919	0.09688	35.7(R)
11	4,4'-DDE	9.506	9.506	0.000	10357	0.00631	2.32(a)
17	4,4'-DDT	12.626	12.626	0.000	10711	0.01071	3.95
$ 22	Decachlorobiphenyl	19.626	19.640	-0.014	113480	0.09170	33.8

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2116.d
Date : 13-DEC-2002 13:06
Client ID: JAX-47-SB55-S01
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WS4555-6
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000046

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/11/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 83.6

Lab ID: WS4555-7
Client ID: JAX-47-IDW-SS1
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	2.0	1.0	1.7	2.0	0.81
58-89-9	gamma BHC	U	2.0	1.0	1.7	2.0	0.71
76-44-8	Heptachlor	U	2.0	1.0	1.7	2.0	0.66
319-85-7	beta-BHC	U	2.0	1.0	1.7	2.0	1.2
309-00-2	Aldrin	U	2.0	1.0	1.7	2.0	0.67
319-86-8	delta-BHC	U	2.0	1.0	1.7	2.0	0.69
1024-57-3	Heptachlor Epoxide	U	2.0	1.0	1.7	2.0	0.78
959-98-8	Endosulfan I	U	2.0	1.0	1.7	2.0	0.73
72-55-9	4,4'-DDE	U	3.9	1.0	3.3	3.9	0.74
60-57-1	Dieldrin	U	3.9	1.0	3.3	3.9	0.72
72-20-8	Endrin	U	3.9	1.0	3.3	3.9	0.68
72-54-8	4,4'-DDD	U	3.9	1.0	3.3	3.9	0.74
33213-65-9	Endosulfan II	U	3.9	1.0	3.3	3.9	0.68
50-29-3	4,4'-DDT	U	3.9	1.0	3.3	3.9	0.66
7421-36-3	Endrin Aldehyde	U	3.9	1.0	3.3	3.9	0.80
1031-07-8	Endosulfan sulfate	U	3.9	1.0	3.3	3.9	0.82
72-43-5	Methoxychlor	U	20	1.0	17	20	1.2
8001-35-2	Toxaphene	U	39	1.0	33	39	14
5103-71-9	alpha-Chlordane	U	2.0	1.0	1.7	2.0	0.82
5103-74-2	gamma-Chlordane	U	2.0	1.0	1.7	2.0	0.75
53494-70-5	Endrin Ketone	U	3.9	1.0	3.3	3.9	0.87
877-09-8	Tetrachloro-m-Xylene		86%				
2051-24-3	Decachlorobiphenyl		91%				

Katahdin Analytical Services

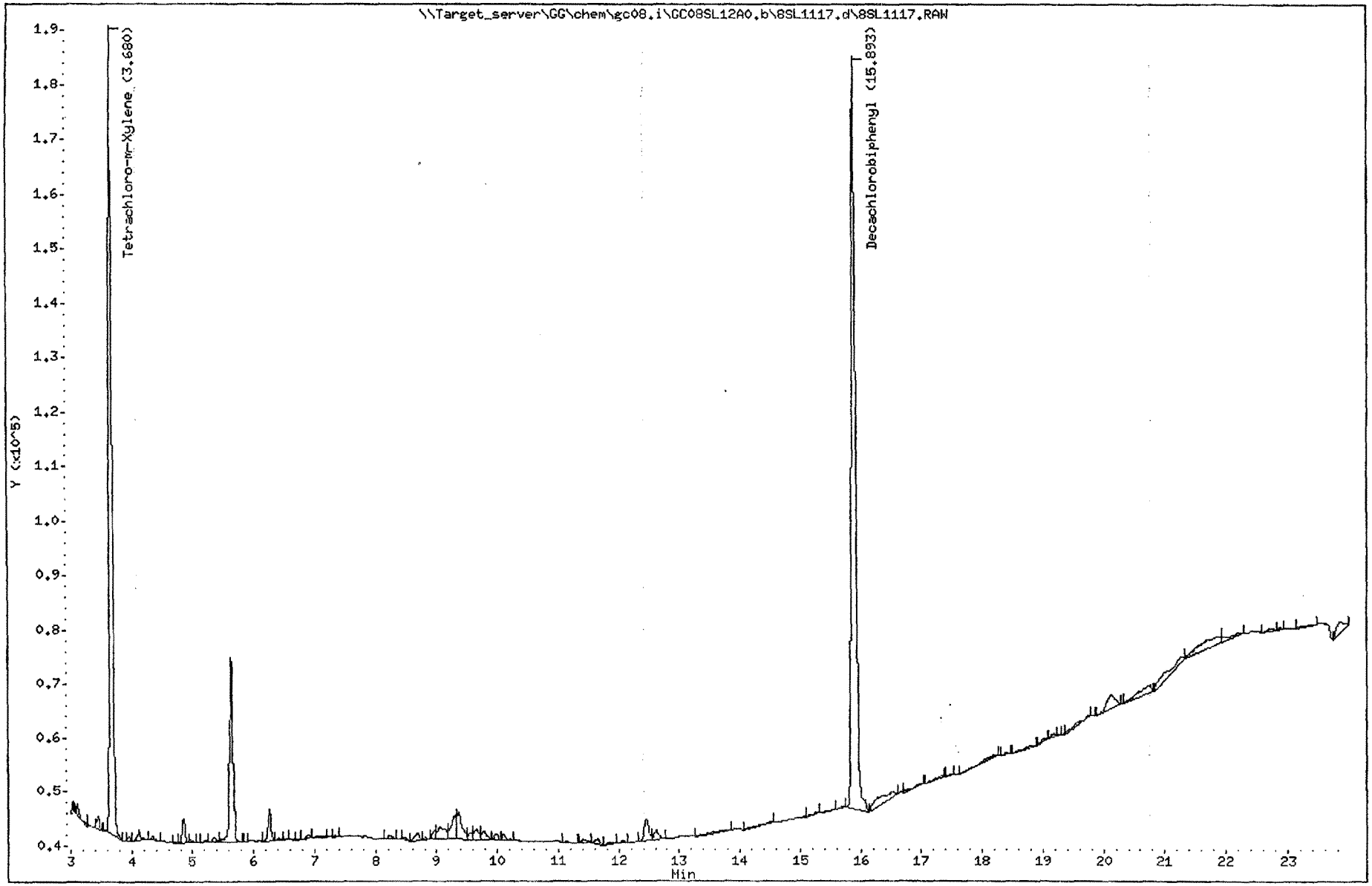
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1117.d
Lab Smp Id: WS4555-7 Client Smp ID: JAX-47-IDW-SS1
Inj Date : 13-DEC-2002 13:34
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-7
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 14:32 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	16.447	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	148681	0.08552	34.1
$ 22 Decachlorobiphenyl	15.893	15.893	0.000	138714	0.09067	36.2

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1117.d
Date : 13-DEC-2002 13:34
Client ID: JAX-47-IDW-SS1
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WS4555-7
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000049

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2117.d
Lab Smp Id: WS4555-7 Client Smp ID: JAX-47-IDW-SS1
Inj Date : 13-DEC-2002 13:34
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WS4555-7
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTb051A.m
Meth Date : 13-Dec-2002 14:34 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

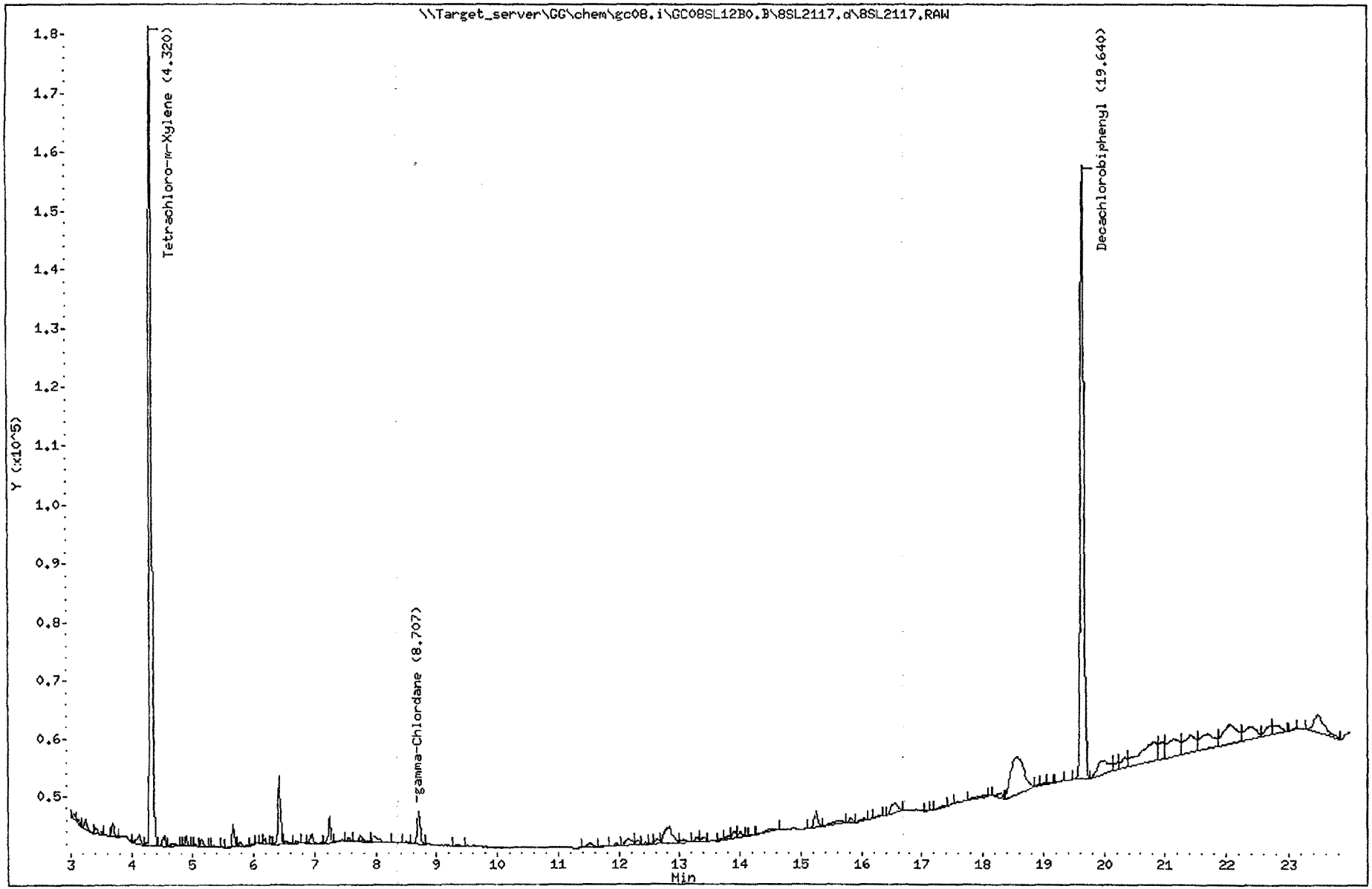
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	16.447	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	139875	0.08077	32.2
9 gamma-Chlordane	8.706	8.706	0.000	5475	0.00272	1.08(a)
$ 22 Decachlorobiphenyl	19.640	19.640	0.000	104955	0.08401	33.5

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2117.d
Date : 13-DEC-2002 13:34
Client ID: JAX-47-IDW-SS1
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WS4555-7
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000051

Standards Data Section

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date(s): 12/12/02 12/13/02

Column: RTX-CLPI ID: 0.53 (mm) Calibration Time(s): 2220 0035

LAB FILE ID: RF0.005: 8SL1097 RF0.01: 8SL1098 RF0.025: 8SL1099
RF0.05: 8SL1096 RF0.1: 8SL1100 RF0.25: 8SL1101

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
Endosulfan I	11841	24350	59667	117050	224320	503880	2ORDR	9e-005	4e-007	2e-013	1.00000	0.99000
alpha-BHC	10527	22985	70267	141030	275960	645050	2ORDR	1e-003	3e-007	7e-014	0.99994	0.99000
gamma BHC	11239	23396	66400	129880	257680	629510	2ORDR	4e-004	4e-007	3e-014	0.99997	0.99000
beta-BHC	7192	14405	34074	66143	126790	300880	2ORDR	-6e-004	8e-007	3e-013	0.99997	0.99000
delta-BHC	9691	21252	58891	124730	249950	601420	2ORDR	1e-003	4e-007	5e-014	0.99994	0.99000
Heptachlor	13831	27373	69098	136480	267930	645700	2ORDR	-6e-005	4e-007	4e-014	1.00000	0.99000
Aldrin	11490	23947	65904	132460	259760	597000	2ORDR	8e-004	4e-007	1.e-013	0.99998	0.99000
Heptachlor Epoxide	12168	24873	62227	120660	226330	553690	2ORDR	-7e-004	4e-007	4e-014	0.99986	0.99000
gamma-Chlordane	13123	26574	64604	125550	239100	535680	2ORDR	-9e-005	4e-007	2e-013	1.00000	0.99000
alpha-Chlordane	13358	27145	64450	124080	234500	527360	2ORDR	-4e-004	4e-007	2e-013	0.99999	0.99000
4,4'-DDE	9641	20868	51750	108800	218740	540860	2ORDR	6e-004	5e-007	2e-014	0.99997	0.99000
4,4'-DDT	6923	15081	38628	80477	159850	391030	2ORDR	6e-004	6e-007	7e-014	0.99998	0.99000
Dieldrin	10059	21396	55412	113690	221840	510910	2ORDR	7e-004	4e-007	1e-013	0.99998	0.99000
Endrin	9392	19832	50600	103350	203200	472920	2ORDR	6.e-004	5e-007	1e-013	0.99998	0.99000
4,4'-DDD	6218	13627	33723	73644	152210	384850	2ORDR	1e-003	7e-007	-4e-014	0.99990	0.99000
Endosulfan II	8716	18280	43799	85833	168420	414790	2ORDR	-4e-004	6e-007	4.e-014	0.99998	0.99000
Endrin Aldehyde	5599	10704	24728	46928	94203	233200	2ORDR	-8e-004	1e-006	3e-014	0.99996	0.99000
Methoxychlor	4815	10026	22160	43838	82986	194570	2ORDR	-7e-004	1e-006	7e-013	0.99995	0.99000
Endosulfan sulfate	5449	11190	26264	53443	108710	274520	2ORDR	4e-005	9e-007	-8e-014	0.99998	0.99000
Endrin Ketone	6683	14053	34408	69877	134690	322950	2ORDR	-3e-006	7e-007	2e-013	0.99998	0.99000
Decachlorobiphenyl	11320	22118	46982	83407	148030	332940	2ORDR	-2e-003	6e-007	5e-013	0.99957	0.99000
Tetrachloro-m-Xylene	9446	18955	49321	90386	170290	397960	2ORDR	-7e-004	6e-007	2.e-013	0.99987	0.99000

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date(s): 12/12/02 12/13/02

Column: RTX-CLPII ID: 0.53 (mm) Calibration Time(s): 2220 0035

LAB FILE ID: RF0.005: 8SL2097 RF0.01: 8SL2098 RF0.025: 8SL2099
RF0.05: 8SL2096 RF0.1: 8SL2100 RF0.25: 8SL2101

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	A0	A1	A2	OR R^2	OR R^2
4,4'-DDE	7979	16742	40062	79661	153190	352050	2ORDR	-1e-005	6e-007	3e-013	1.00000	0.99000
delta-BHC	10150	22337	60139	121660	233930	572610	2ORDR	3e-004	4e-007	4.e-014	0.99994	0.99000
alpha-BHC	11790	25018	70951	143970	277700	636540	2ORDR	9e-004	3e-007	1e-013	0.99996	0.99000
Heptachlor	11182	21858	54642	110400	200560	453870	2ORDR	-2e-004	4e-007	2e-013	0.99988	0.99000
Aldrin	10505	21486	56182	112020	218480	503580	2ORDR	5e-004	4e-007	1e-013	0.99999	0.99000
Heptachlor Epoxide	10079	20405	48744	95111	181100	407510	2ORDR	-2e-004	5.e-007	3e-013	1.00000	0.99000
gamma-Chlordane	9315	18798	45338	87985	167480	383380	2ORDR	-3e-004	6e-007	3e-013	0.99999	0.99000
alpha-Chlordane	8840	17979	41869	81163	156970	368330	2ORDR	-5e-004	6e-007	2.e-013	0.99999	0.99000
gamma BHC	11933	24751	66933	134940	261110	599720	2ORDR	6e-004	4e-007	1.e-013	0.99998	0.99000
beta-BHC	6645	13176	31491	61256	118550	280240	2ORDR	-4e-004	8e-007	3.e-013	0.99999	0.99000
Endosulfan sulfate	5683	11462	26271	51642	100500	236890	2ORDR	-4e-004	1e-006	4e-013	0.99999	0.99000
Endrin Ketone	6649	13880	32610	64473	125180	291290	2ORDR	-2e-004	8e-007	4e-013	1.00000	0.99000
Endosulfan I	8035	16288	39706	76648	146180	339210	2ORDR	-4e-004	6e-007	3e-013	0.99998	0.99000
Dieldrin	6990	14614	35797	72934	145480	343370	2ORDR	5e-004	7e-007	2.e-013	0.99998	0.99000
Endrin	6074	12624	30366	61504	122020	287870	2ORDR	3e-004	8e-007	3e-013	0.99998	0.99000
4,4'-DDD	4413	9343	22682	47495	96996	237560	2ORDR	7e-004	1.e-006	1e-013	0.99994	0.99000
Endosulfan II	5888	12089	28335	55806	108250	250190	2ORDR	-2e-004	9e-007	5e-013	1.00000	0.99000
4,4'-DDT	4890	10209	24711	50035	99802	239120	2ORDR	3e-004	1e-006	3.e-013	0.99999	0.99000
Endrin Aldehyde	5153	9788	21877	41578	82581	195790	2ORDR	-8e-004	1e-006	5e-013	0.99995	0.99000
Methoxychlor	3861	7896	17456	33753	63564	146580	2ORDR	-9e-004	1e-006	2e-012	0.99995	0.99000
Decachlorobiphenyl	8679	17218	37516	67100	120390	268410	2ORDR	-2e-003	7e-007	7e-013	0.99971	0.99000
Tetrachloro-m-Xylene	9845	18919	47190	90036	169470	392870	2ORDR	-6e-004	6e-007	2e-013	0.99995	0.99000

FORM VI SV

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/12/02
Lab Sample ID (PEM): EVAL Time Analyzed :2153

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL1095.d	0.86	1.21

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1095.d
Lab Smp Id: EVAL Client Smp ID: EVAL
Inj Date : 12-DEC-2002 21:53
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,EVAL
Misc Info : EVAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVAL.SUB
Target Version: 4.12
Processing Host: TARGET02

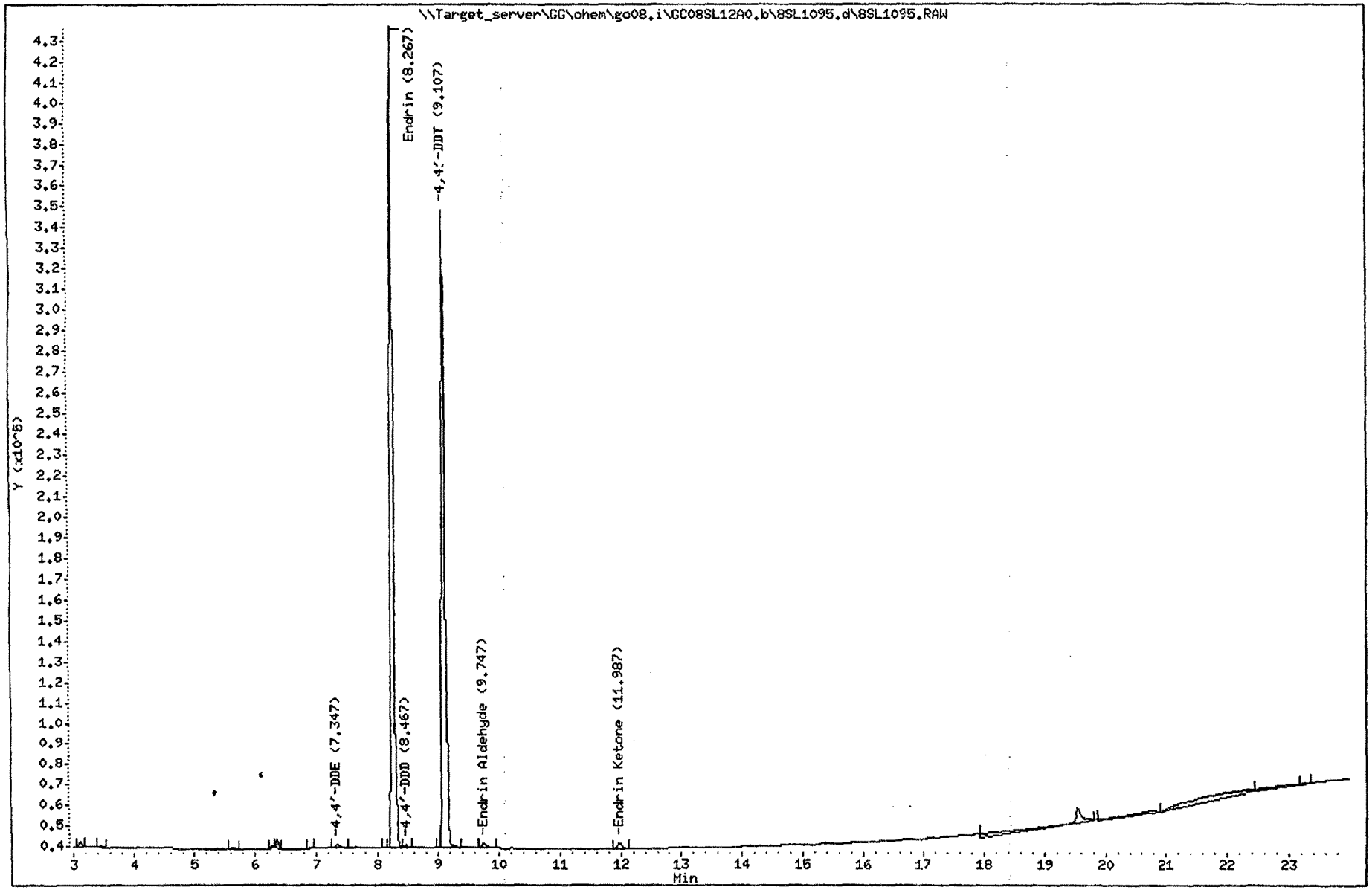
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
11 4,4'-DDE	7.346	7.333	0.013	1674		
14 Endrin	8.266	8.266	0.000	397781		
15 4,4'-DDD	8.466	8.453	0.013	1002		
17 4,4'-DDT	9.106	9.093	0.013	308802		
18 Endrin Aldehyde	9.746	9.733	0.013	2136		
21 Endrin Ketone	11.986	11.973	0.013	2739		

12/30

Data File: \\Target_server\GC\chem\go08.i\GC08SL12A0.b\8SL1095.d
Date : 12-DEC-2002 21:53
Client ID: EVAL
Instrument: go08.i
Sample Info: PSTA051A,M,GC08SL12A0.B,1,EVAL
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000057

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL
Lab Sample ID (PEM): EVAL

Date Analyzed :12/12/02
Time Analyzed :2153

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL2095.d	0.79	1.94

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2095.d
Lab Smp Id: EVAL Client Smp ID: EVAL
Inj Date : 12-DEC-2002 21:53
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,EVAL
Misc Info : EVAL.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVAL.SUB
Target Version: 4.12
Processing Host: TARGET02

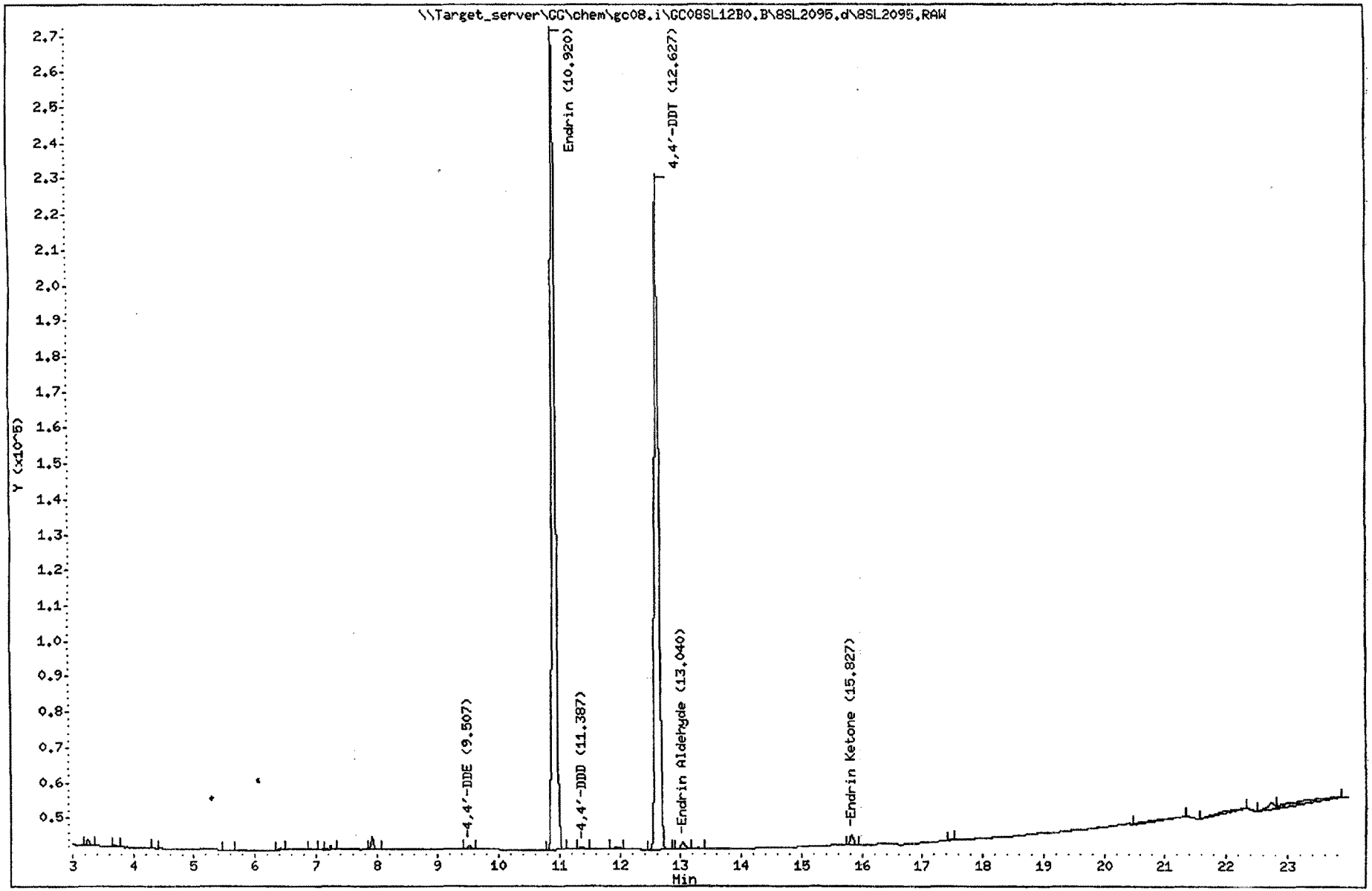
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
11 4,4'-DDE	9.506	9.506	0.000	935		
14 Endrin	10.920	10.920	0.000	231478		
15 4,4'-DDD	11.386	11.373	0.013	582		
17 4,4'-DDT	12.626	12.626	0.000	190312		
18 Endrin Aldehyde	13.040	13.026	0.014	1929		
21 Endrin Ketone	15.826	15.826	0.000	2650		

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2095.d
Date : 12-DEC-2002 21:53
Client ID: EVAL
Sample Info: PSTB051A.M,GC08SL12A0,B,1,EVAL
Purge Volume: 1.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000060

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1096.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: ICAL
Inj Date : 12-DEC-2002 22:20
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : ICAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL1096.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

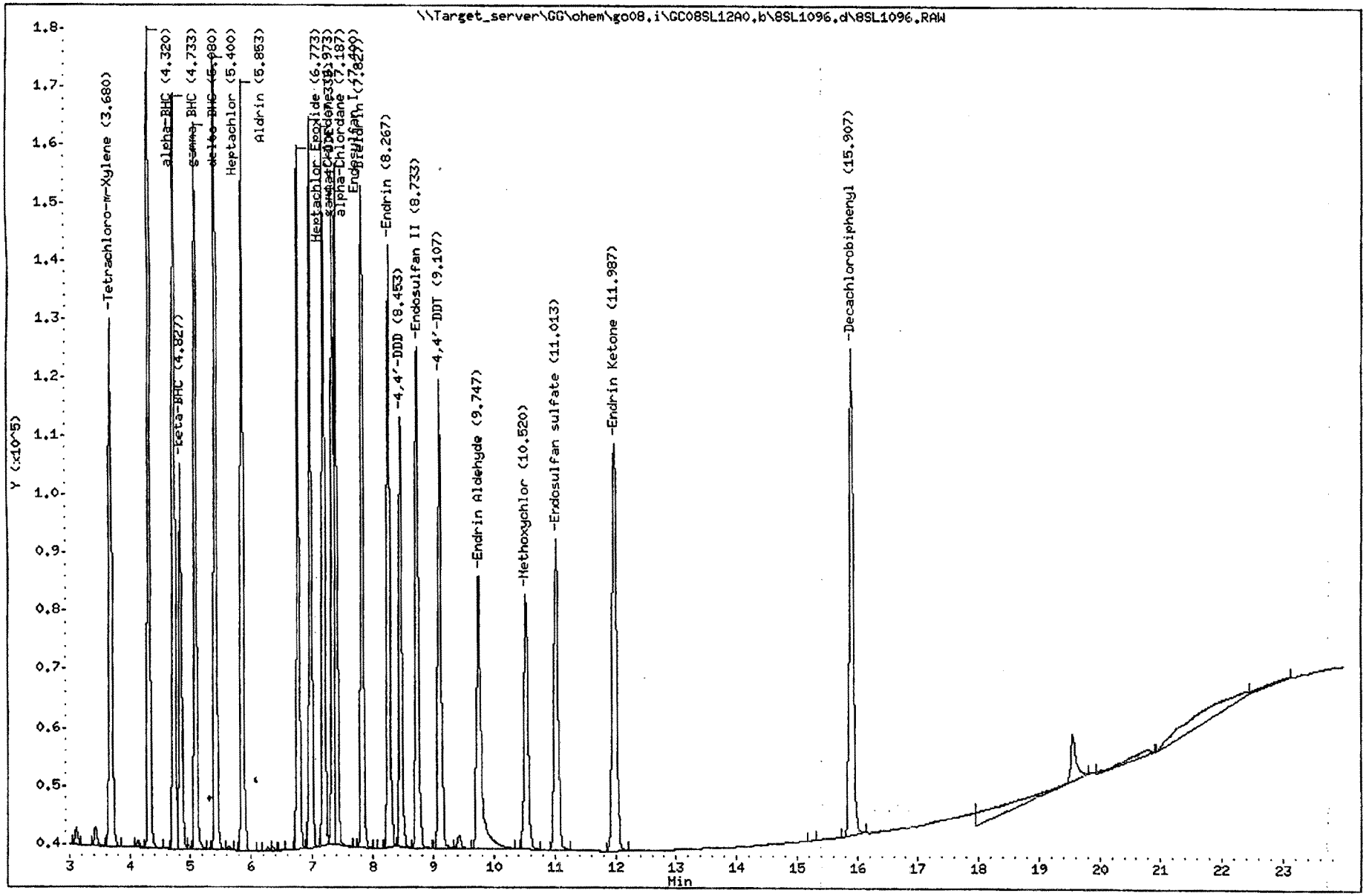
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	90386	0.05000	0.0500
2 alpha-BHC	4.320	4.306	0.014	141032	0.05000	0.0500
3 gamma BHC	4.733	4.720	0.013	129882	0.05000	0.0500
4 beta-BHC	4.826	4.826	0.000	66143	0.05000	0.0500
5 delta-BHC	5.080	5.080	0.000	124732	0.05000	0.0500
6 Heptachlor	5.400	5.400	0.000	136485	0.05000	0.0500
7 Aldrin	5.853	5.853	0.000	132463	0.05000	0.0500
8 Heptachlor Epoxide	6.773	6.760	0.013	120659	0.05000	0.0500
9 gamma-Chlordane	6.973	6.973	0.000	125553	0.05000	0.0500
10 alpha-Chlordane	7.186	7.186	0.000	124085	0.05000	0.0500
11 4,4'-DDE	7.333	7.333	0.000	108803	0.05000	0.0500
12 Endosulfan I	7.400	7.386	0.014	117049	0.05000	0.0500
13 Dieldrin	7.826	7.813	0.013	113692	0.05000	0.0500
14 Endrin	8.266	8.266	0.000	103349	0.05000	0.0500
15 4,4'-DDD	8.453	8.453	0.000	73644	0.05000	0.0500
16 Endosulfan II	8.733	8.720	0.013	85833	0.05000	0.0500
17 4,4'-DDT	9.106	9.093	0.013	80477	0.05000	0.0500
18 Endrin Aldehyde	9.746	9.733	0.013	46928	0.05000	0.0500
19 Methoxychlor	10.520	10.520	0.000	43838	0.05000	0.0500
20 Endosulfan sulfate	11.013	11.013	0.000	53443	0.05000	0.0500
21 Endrin Ketone	11.986	11.973	0.013	69877	0.05000	0.0500
$ 22 Decachlorobiphenyl	15.906	15.893	0.013	83407	0.05000	0.0500

12/13/02

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1096.d
Date : 12-DEC-2002 22:20
Client ID: ICAL
Sample Info: PSTA051A,M,GC08SL12A0,B,1,INDAB 0.05PPM
Purge Volume: 1.0
Column phase: RTX-CLPI

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000062

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2096.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: ICAL
Inj Date : 12-DEC-2002 22:20
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : ICAL.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

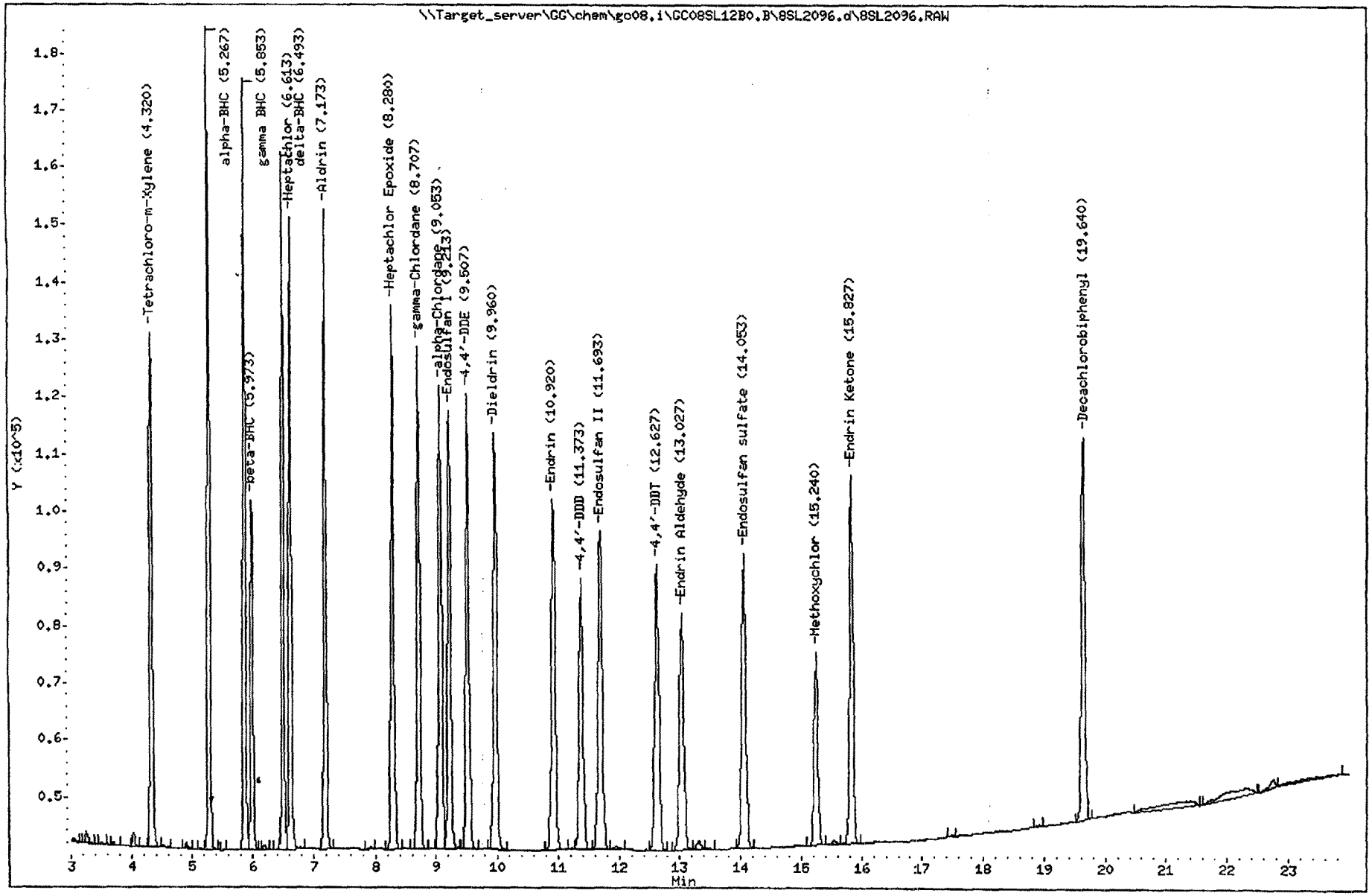
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	90036	0.05000	0.0508
$ 22 Decachlorobiphenyl	19.640	19.640	0.000	67100	0.05000	0.0511
2 alpha-BHC	5.266	5.266	0.000	143972	0.05000	0.0504
6 Heptachlor	6.613	6.613	0.000	110400	0.05000	0.0519
7 Aldrin	7.173	7.173	0.000	112024	0.05000	0.0499
8 Heptachlor Epoxide	8.280	8.280	0.000	95111	0.05000	0.0501
9 gamma-Chlordane	8.706	8.706	0.000	87985	0.05000	0.0504
10 alpha-Chlordane	9.053	9.053	0.000	81163	0.05000	0.0501
3 gamma BHC	5.853	5.853	0.000	134939	0.05000	0.0502(M)
4 beta-BHC	5.973	5.973	0.000	61256	0.05000	0.0502(M)
5 delta-BHC	6.493	6.493	0.000	121659	0.05000	0.0512
11 4,4'-DDE	9.506	9.506	0.000	79661	0.05000	0.0502
12 Endosulfan I	9.213	9.213	0.000	76648	0.05000	0.0504
13 Dieldrin	9.960	9.960	0.000	72934	0.05000	0.0496
14 Endrin	10.920	10.920	0.000	61504	0.05000	0.0497
15 4,4'-DDD	11.373	11.373	0.000	47495	0.05000	0.0494
16 Endosulfan II	11.693	11.693	0.000	55806	0.05000	0.0499
17 4,4'-DDT	12.626	12.626	0.000	50035	0.05000	0.0497
18 Endrin Aldehyde	13.026	13.026	0.000	41578	0.05000	0.0492
19 Methoxychlor	15.240	15.240	0.000	33753	0.05000	0.0506
20 Endosulfan sulfate	14.053	14.053	0.000	51642	0.05000	0.0500
21 Endrin Ketone	15.826	15.826	0.000	64473	0.05000	0.0500

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\go08.i\GC08SL12B0.B\8SL2096.d
Date : 12-DEC-2002 22:20
Client ID: ICAL
Instrument: go08.i
Sample Info: PSTB051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000065

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1097.d
Lab Smp Id: INDAB 0.005PPM Client Smp ID: ICAL
Inj Date : 12-DEC-2002 22:47
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.005PPM
Misc Info : ICAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:47 Cal File: 8SL1097.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

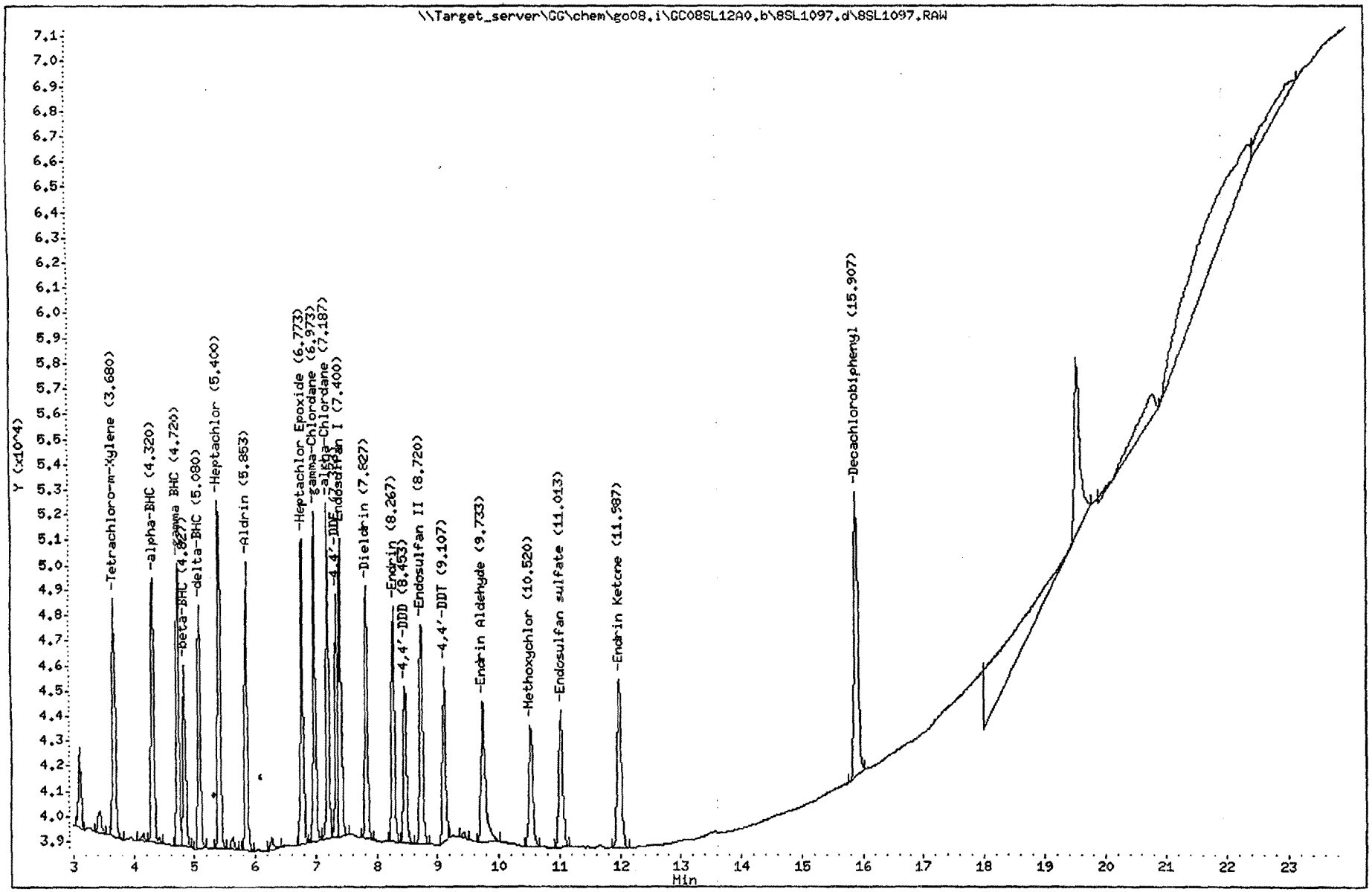
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tetrachloro-m-Xylene	3.680	3.666	0.014	9446	0.00500	0.00500
	2 alpha-BHC	4.320	4.306	0.014	10527	0.00500	0.00500
	3 gamma BHC	4.720	4.720	0.000	11239	0.00500	0.00500
	4 beta-BHC	4.826	4.826	0.000	7192	0.00500	0.00500
	5 delta-BHC	5.080	5.080	0.000	9691	0.00500	0.00500
	6 Heptachlor	5.400	5.400	0.000	13831	0.00500	0.00500
	7 Aldrin	5.853	5.853	0.000	11490	0.00500	0.00500
	8 Heptachlor Epoxide	6.773	6.760	0.013	12168	0.00500	0.00500
	9 gamma-Chlordane	6.973	6.973	0.000	13123	0.00500	0.00500
	10 alpha-Chlordane	7.186	7.186	0.000	13358	0.00500	0.00500
	11 4,4'-DDE	7.333	7.333	0.000	9641	0.00500	0.00500
	12 Endosulfan I	7.400	7.386	0.014	11841	0.00500	0.00500
	13 Dieldrin	7.826	7.813	0.013	10059	0.00500	0.00500
	14 Endrin	8.266	8.266	0.000	9392	0.00500	0.00500
	15 4,4'-DDD	8.453	8.453	0.000	6218	0.00500	0.00500
	16 Endosulfan II	8.720	8.720	0.000	8716	0.00500	0.00500
	17 4,4'-DDT	9.106	9.093	0.013	6923	0.00500	0.00500
	18 Endrin Aldehyde	9.733	9.733	0.000	5599	0.00500	0.00500
	19 Methoxychlor	10.520	10.520	0.000	4815	0.00500	0.00500
	20 Endosulfan sulfate	11.013	11.013	0.000	5449	0.00500	0.00500
	21 Endrin Ketone	11.986	11.973	0.013	6683	0.00500	0.00500
$	22 Decachlorobiphenyl	15.906	15.893	0.013	11320	0.00500	0.00500

12/13

Data File: \\Target_server\GC\chem\go08.i\GC08SL12A0.b\8SL1097.d
Date : 12-DEC-2002 22:47
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0.B,1,INDAB 0.005PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000067

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2097.d
Lab Smp Id: INDAB 0.005PPM Client Smp ID: ICAL
Inj Date : 12-DEC-2002 22:47
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.005PPM
Misc Info : ICAL.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:47 Cal File: 8SL2097.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

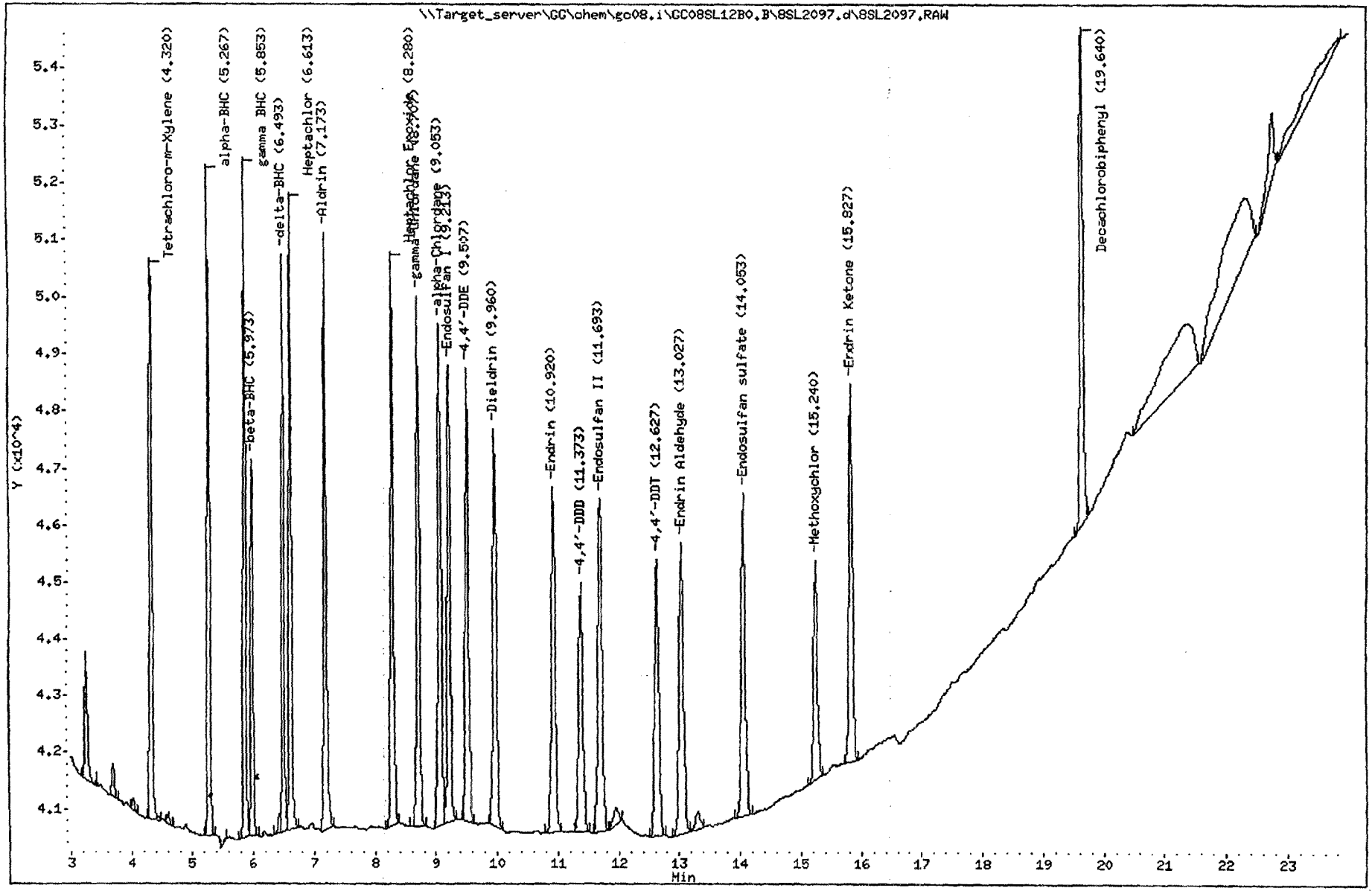
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	9845	0.00500	0.00500
$ 22 Decachlorobiphenyl	19.640	19.640	0.000	8679	0.00500	0.00500
2 alpha-BHC	5.266	5.266	0.000	11790	0.00500	0.00500
6 Heptachlor	6.613	6.613	0.000	11182	0.00500	0.00500
7 Aldrin	7.173	7.173	0.000	10505	0.00500	0.00500
8 Heptachlor Epoxide	8.280	8.280	0.000	10079	0.00500	0.00500
9 gamma-Chlordane	8.706	8.706	0.000	9315	0.00500	0.00500
10 alpha-Chlordane	9.053	9.053	0.000	8840	0.00500	0.00500
3 gamma BHC	5.853	5.853	0.000	11933	0.00500	0.00500
4 beta-BHC	5.973	5.973	0.000	6645	0.00500	0.00500
5 delta-BHC	6.493	6.493	0.000	10150	0.00500	0.00500
11 4,4'-DDE	9.506	9.506	0.000	7979	0.00500	0.00500
12 Endosulfan I	9.213	9.213	0.000	8035	0.00500	0.00500
13 Dieldrin	9.960	9.960	0.000	6990	0.00500	0.00500
14 Endrin	10.920	10.920	0.000	6074	0.00500	0.00500
15 4,4'-DDD	11.373	11.373	0.000	4413	0.00500	0.00500
16 Endosulfan II	11.693	11.693	0.000	5888	0.00500	0.00500
17 4,4'-DDT	12.626	12.626	0.000	4890	0.00500	0.00500
18 Endrin Aldehyde	13.026	13.026	0.000	5153	0.00500	0.00500
19 Methoxychlor	15.240	15.240	0.000	3861	0.00500	0.00500
20 Endosulfan sulfate	14.053	14.053	0.000	5683	0.00500	0.00500
21 Endrin Ketone	15.826	15.826	0.000	6649	0.00500	0.00500

12/13/02

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2097.d
Date : 12-DEC-2002 22:47
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTB051A.M,GC08SL12A0.B,1,INDAB 0.005PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000069

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1098.d
Lab Smp Id: INDAB 0.01PPM Client Smp ID: ICAL
Inj Date : 12-DEC-2002 23:14
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.01PPM
Misc Info : ICAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 23:14 Cal File: 8SL1098.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

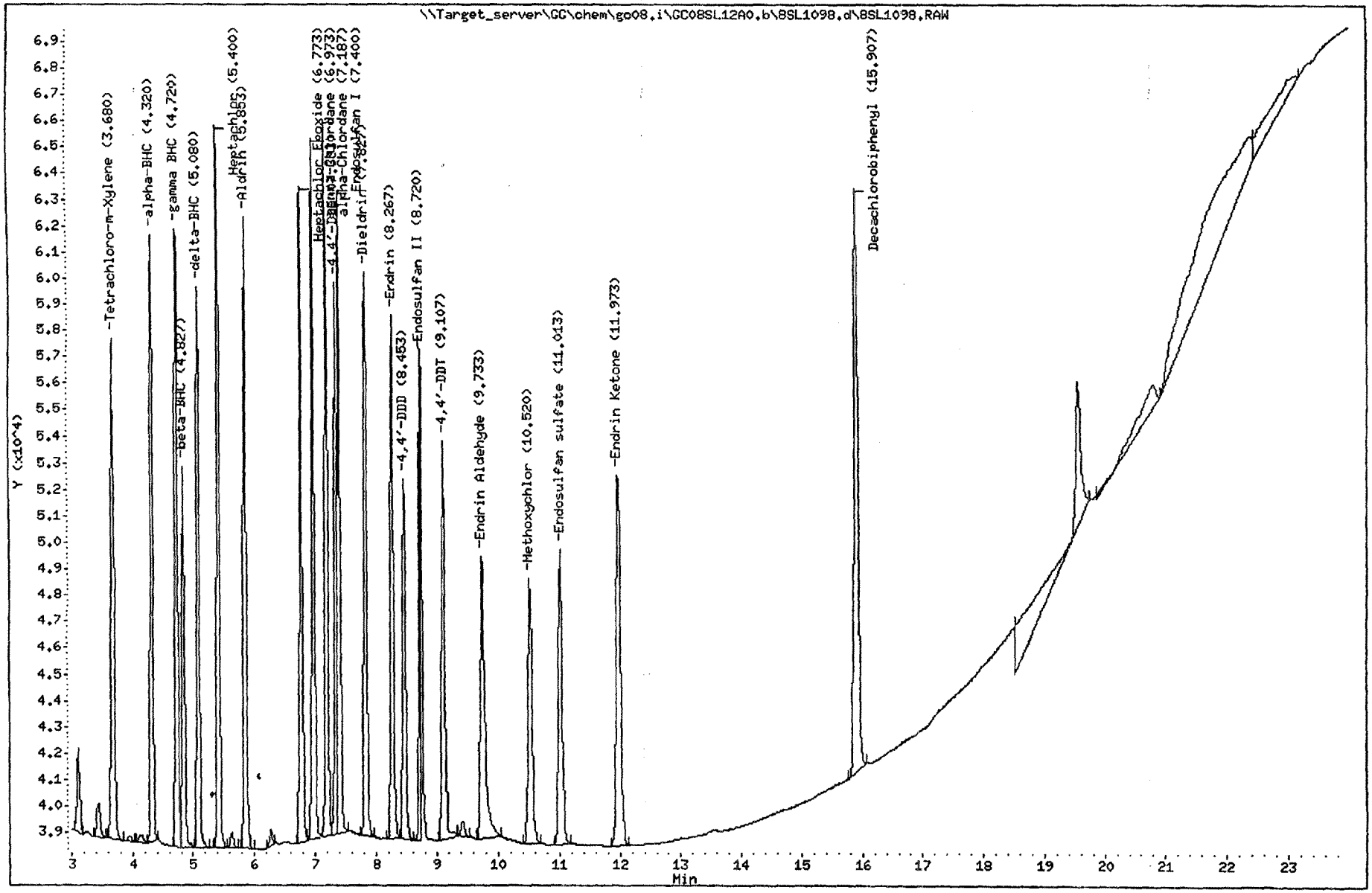
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tetrachloro-m-Xylene	3.680	3.666	0.014	18955	0.01000	0.0100
	2 alpha-BHC	4.320	4.306	0.014	22985	0.01000	0.0101
	3 gamma BHC	4.720	4.720	0.000	23396	0.01000	0.0100
	4 beta-BHC	4.826	4.826	0.000	14405	0.01000	0.0100
	5 delta-BHC	5.080	5.080	0.000	21252	0.01000	0.0101
	6 Heptachlor	5.400	5.400	0.000	27373	0.01000	0.00998
	7 Aldrin	5.853	5.853	0.000	23947	0.01000	0.0100
	8 Heptachlor Epoxide	6.773	6.760	0.013	24873	0.01000	0.0100
	9 gamma-Chlordane	6.973	6.973	0.000	26574	0.01000	0.0100
	10 alpha-Chlordane	7.186	7.186	0.000	27145	0.01000	0.0100
	11 4,4'-DDE	7.333	7.333	0.000	20868	0.01000	0.0101
	12 Endosulfan I	7.400	7.386	0.014	24350	0.01000	0.0100
	13 Dieldrin	7.826	7.813	0.013	21396	0.01000	0.0101
	14 Endrin	8.266	8.266	0.000	19832	0.01000	0.0101
	15 4,4'-DDD	8.453	8.453	0.000	13627	0.01000	0.0101
	16 Endosulfan II	8.720	8.720	0.000	18280	0.01000	0.0101
	17 4,4'-DDT	9.106	9.093	0.013	15081	0.01000	0.0101
	18 Endrin Aldehyde	9.733	9.733	0.000	10704	0.01000	0.00995
	19 Methoxychlor	10.520	10.520	0.000	10026	0.01000	0.0101
	20 Endosulfan sulfate	11.013	11.013	0.000	11190	0.01000	0.0100
	21 Endrin Ketone	11.973	11.973	0.000	14053	0.01000	0.0101
$	22 Decachlorobiphenyl	15.906	15.893	0.013	22118	0.01000	0.0101

12/13/02

Data File: \\Target_server\GC\chem\go08.i\GC08SL12A0.b\8SL1098.d
Date : 12-DEC-2002 23:14
Client ID: ICAL
Sample Info: PSTA051A,M,GC08SL12A0,B,1,INDAB 0.01PPM
Purge Volume: 1.0
Column phase: RTX-CLPI

Instrument: go08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000071

Katahdin Analytical Services

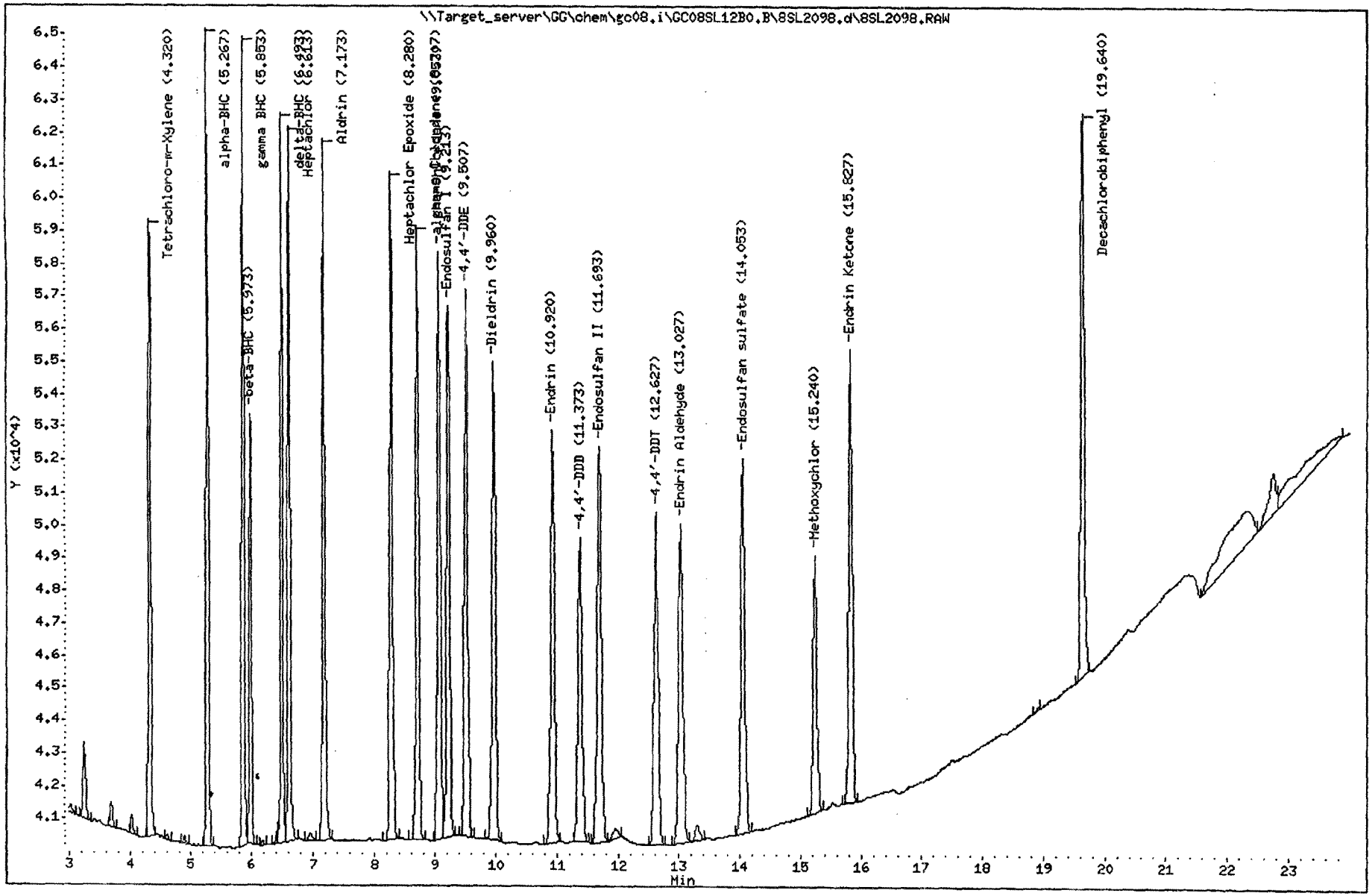
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2098.d
Lab Smp Id: INDAB 0.01PPM Client Smp ID: ICAL
Inj Date : 12-DEC-2002 23:14
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.01PPM
Misc Info : ICAL.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 23:14 Cal File: 8SL2098.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	18919	0.01000	0.00993
$ 22 Decachlorobiphenyl	19.640	19.640	0.000	17218	0.01000	0.0101
2 alpha-BHC	5.266	5.266	0.000	25018	0.01000	0.0101
6 Heptachlor	6.613	6.613	0.000	21858	0.01000	0.00995
7 Aldrin	7.173	7.173	0.000	21486	0.01000	0.0100
8 Heptachlor Epoxide	8.280	8.280	0.000	20405	0.01000	0.0100
9 gamma-Chlordane	8.706	8.706	0.000	18798	0.01000	0.0100
10 alpha-Chlordane	9.053	9.053	0.000	17979	0.01000	0.0100
3 gamma BHC	5.853	5.853	0.000	24751	0.01000	0.0100
4 beta-BHC	5.973	5.973	0.000	13176	0.01000	0.0100
5 delta-BHC	6.493	6.493	0.000	22337	0.01000	0.0101
11 4,4'-DDE	9.506	9.506	0.000	16742	0.01000	0.0101
12 Endosulfan I	9.213	9.213	0.000	16288	0.01000	0.0100
13 Dieldrin	9.960	9.960	0.000	14614	0.01000	0.0101
14 Endrin	10.920	10.920	0.000	12624	0.01000	0.0101
15 4,4'-DDD	11.373	11.373	0.000	9343	0.01000	0.0101
16 Endosulfan II	11.693	11.693	0.000	12089	0.01000	0.0101
17 4,4'-DDT	12.626	12.626	0.000	10209	0.01000	0.0101
18 Endrin Aldehyde	13.026	13.026	0.000	9788	0.01000	0.00995
19 Methoxychlor	15.240	15.240	0.000	7896	0.01000	0.0101
20 Endosulfan sulfate	14.053	14.053	0.000	11462	0.01000	0.0100
21 Endrin Ketone	15.826	15.826	0.000	13880	0.01000	0.0101

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2098.d
Date : 12-DEC-2002 23:14
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTB051A,M,GC08SL12A0.B,1,INDAB 0.01PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000073

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1099.d
Lab Smp Id: INDAB 0.025PPM Client Smp ID: ICAL
Inj Date : 12-DEC-2002 23:41
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.025PPM
Misc Info : ICAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 23:41 Cal File: 8SL1099.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

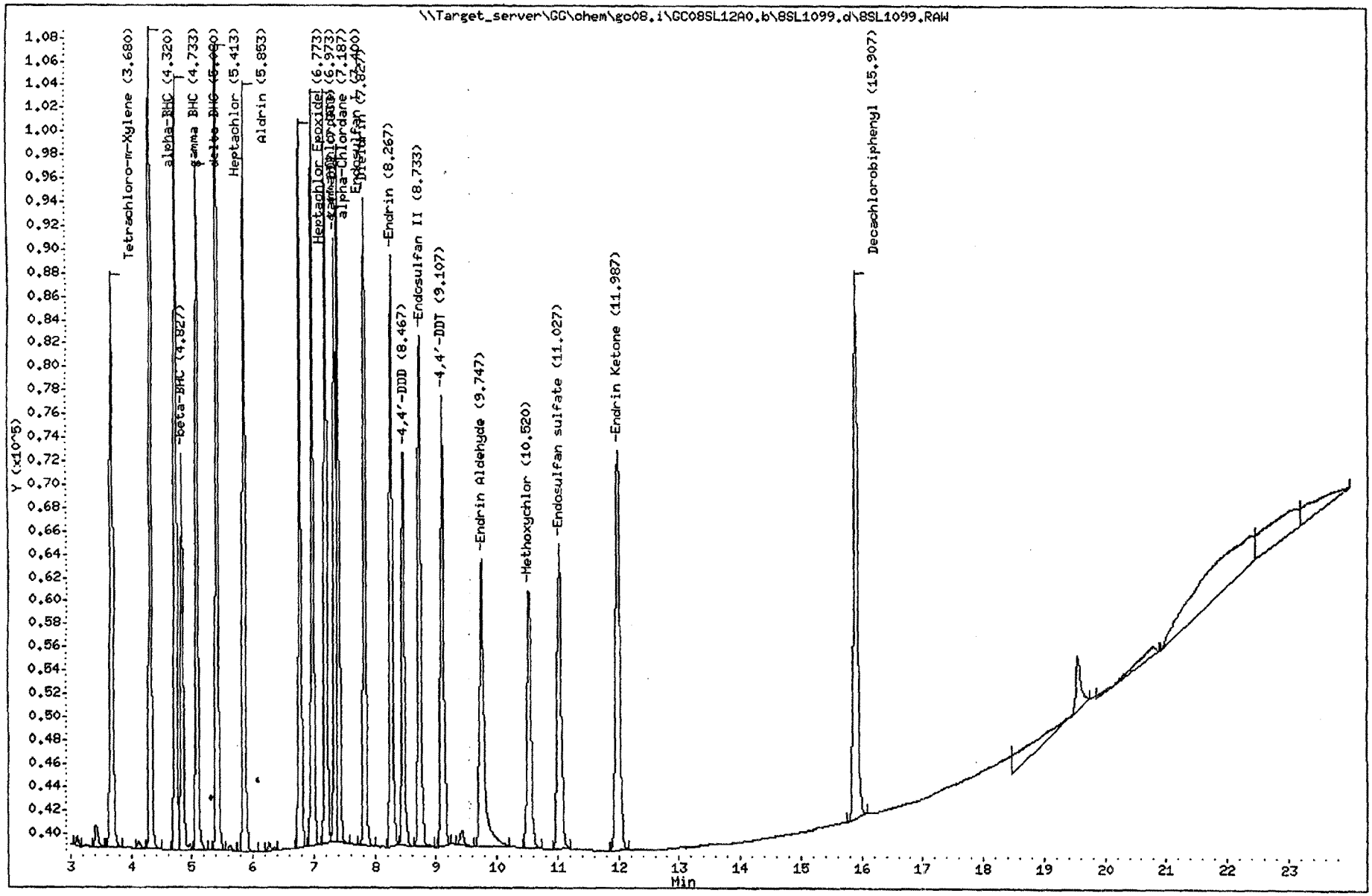
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tetrachloro-m-Xylene	3.680	3.666	0.014	49321	0.02500	0.0254
	2 alpha-BHC	4.320	4.306	0.014	70267	0.02500	0.0256
	3 gamma BHC	4.733	4.720	0.013	66400	0.02500	0.0255
	4 beta-BHC	4.826	4.826	0.000	34074	0.02500	0.0248
	5 delta-BHC	5.080	5.080	0.000	58891	0.02500	0.0253
	6 Heptachlor	5.413	5.400	0.013	69098	0.02500	0.0251
	7 Aldrin	5.853	5.853	0.000	65904	0.02500	0.0253
	8 Heptachlor Epoxide	6.773	6.760	0.013	62227	0.02500	0.0251
	9 gamma-Chlordane	6.973	6.973	0.000	64604	0.02500	0.0250
	10 alpha-Chlordane	7.186	7.186	0.000	64450	0.02500	0.0249
	11 4,4'-DDE	7.333	7.333	0.000	51750	0.02500	0.0249
	12 Endosulfan I	7.400	7.386	0.014	59667	0.02500	0.0250
	13 Dieldrin	7.826	7.813	0.013	55412	0.02500	0.0251
	14 Endrin	8.266	8.266	0.000	50600	0.02500	0.0250
	15 4,4'-DDD	8.466	8.453	0.013	33723	0.02500	0.0248
	16 Endosulfan II	8.733	8.720	0.013	43799	0.02500	0.0249
	17 4,4'-DDT	9.106	9.093	0.013	38628	0.02500	0.0250
	18 Endrin Aldehyde	9.746	9.733	0.013	24728	0.02500	0.0248
	19 Methoxychlor	10.520	10.520	0.000	22160	0.02500	0.0245
	20 Endosulfan sulfate	11.026	11.013	0.013	26264	0.02500	0.0247
	21 Endrin Ketone	11.986	11.973	0.013	34408	0.02500	0.0249
$	22 Decachlorobiphenyl	15.906	15.893	0.013	46982	0.02500	0.0247

12/13/02

Data File: \\Target_server\GC\ohem\gc08.i\GC08SL12A0.b\8SL1099.d
Date : 12-DEC-2002 23:41
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTA051A.M,GC08SL12A0.B,1,INDAB 0.025PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000075

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2099.d
Lab Smp Id: INDAB 0.025PPM Client Smp ID: ICAL
Inj Date : 12-DEC-2002 23:41
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.025PPM
Misc Info : ICAL.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 23:41 Cal File: 8SL2099.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

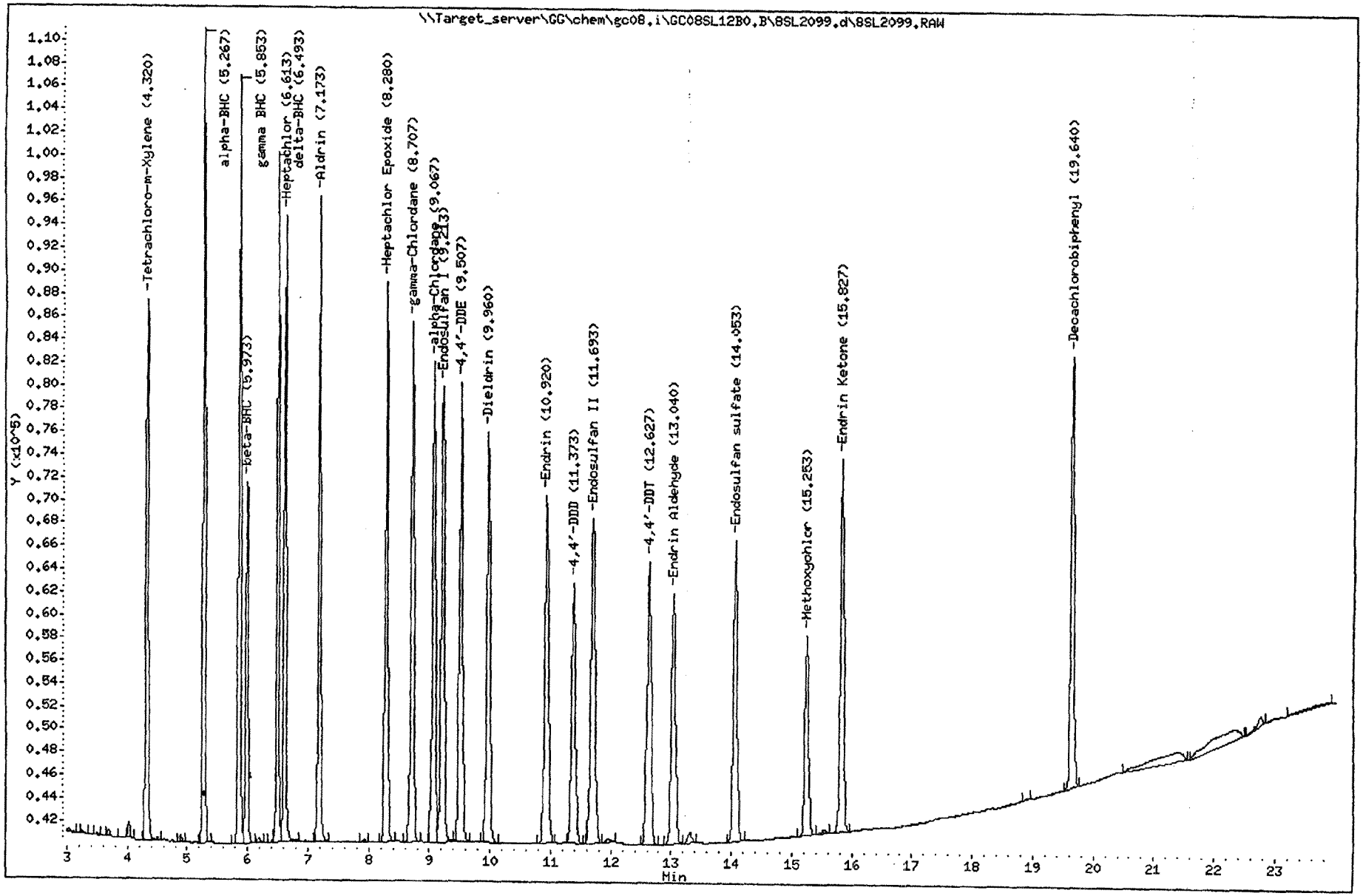
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	47190	0.02500	0.0251
$ 22 Decachlorobiphenyl	19.640	19.640	0.000	37516	0.02500	0.0248
2 alpha-BHC	5.266	5.266	0.000	70951	0.02500	0.0254
6 Heptachlor	6.613	6.613	0.000	54642	0.02500	0.0250
7 Aldrin	7.173	7.173	0.000	56182	0.02500	0.0252
8 Heptachlor Epoxide	8.280	8.280	0.000	48744	0.02500	0.0249
9 gamma-Chlordane	8.706	8.706	0.000	45338	0.02500	0.0249
10 alpha-Chlordane	9.066	9.053	0.013	41869	0.02500	0.0248
3 gamma BHC	5.853	5.853	0.000	66933	0.02500	0.0253
4 beta-BHC	5.973	5.973	0.000	31491	0.02500	0.0249
5 delta-BHC	6.493	6.493	0.000	60139	0.02500	0.0253
11 4,4'-DDE	9.506	9.506	0.000	40062	0.02500	0.0248
12 Endosulfan I	9.213	9.213	0.000	39706	0.02500	0.0250
13 Dieldrin	9.960	9.960	0.000	35797	0.02500	0.0249
14 Endrin	10.920	10.920	0.000	30366	0.02500	0.0248
15 4,4'-DDD	11.373	11.373	0.000	22682	0.02500	0.0248
16 Endosulfan II	11.693	11.693	0.000	28335	0.02500	0.0248
17 4,4'-DDT	12.626	12.626	0.000	24711	0.02500	0.0248
18 Endrin Aldehyde	13.040	13.026	0.014	21877	0.02500	0.0246
19 Methoxychlor	15.253	15.240	0.013	17456	0.02500	0.0245
20 Endosulfan sulfate	14.053	14.053	0.000	26271	0.02500	0.0247
21 Endrin Ketone	15.826	15.826	0.000	32610	0.02500	0.0248

12/13/02

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2099.d
Date : 12-DEC-2002 23:41
Client ID: ICAL
Sample Info: PSTB051A.M,GC08SL12A0.B,1,INDAB 0.025PPM
Purge Volume: 1.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000077

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1100.d
Lab Smp Id: INDAB 0.1PPM Client Smp ID: ICAL
Inj Date : 13-DEC-2002 00:09
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.1PPM
Misc Info : ICAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:09 Cal File: 8SL1100.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

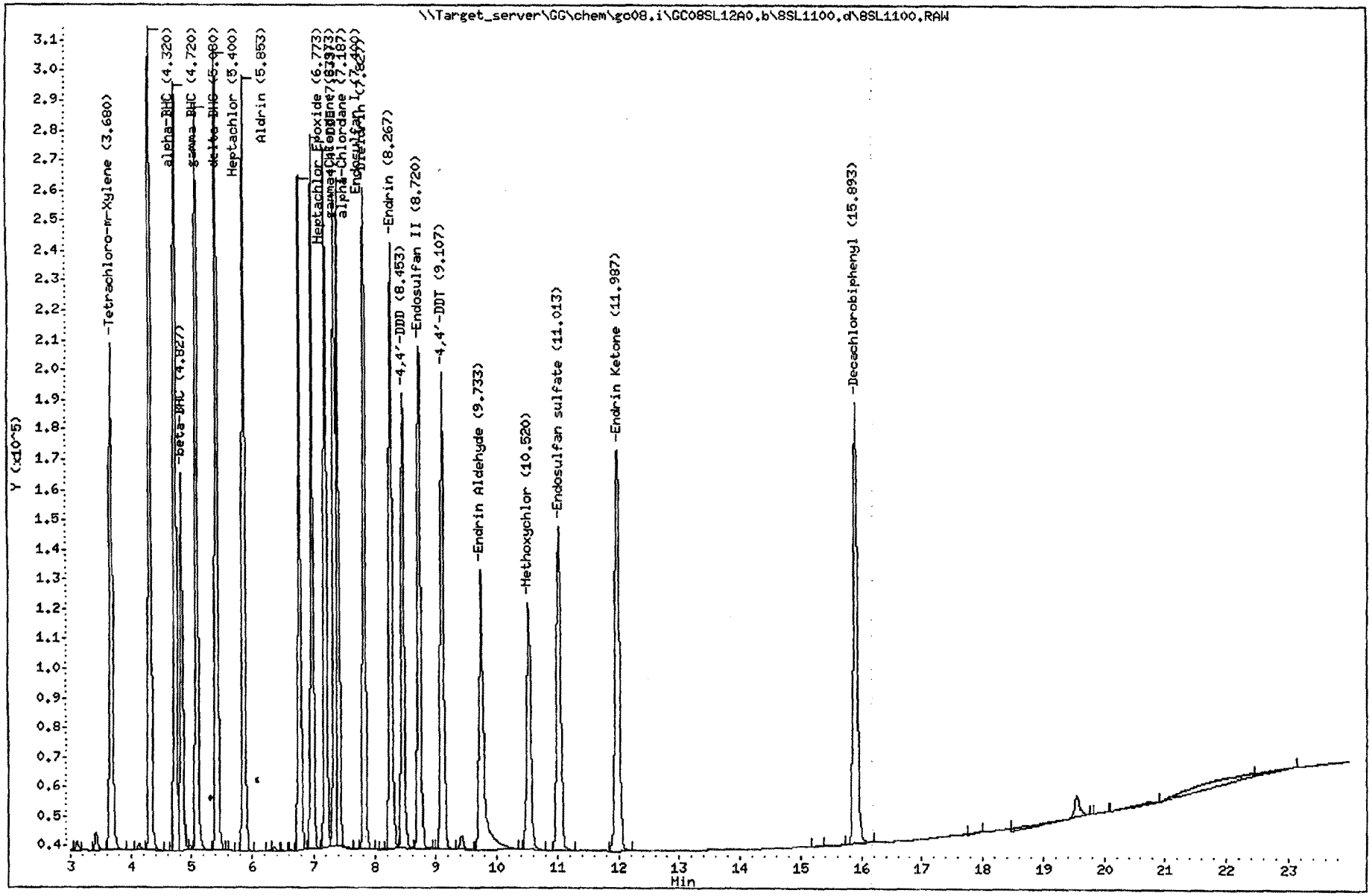
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tetrachloro-m-Xylene	3.680	3.666	0.014	170294	0.10000	0.100
	2 alpha-BHC	4.320	4.306	0.014	275956	0.10000	0.0999
	3 gamma BHC	4.720	4.720	0.000	257683	0.10000	0.100
	4 beta-BHC	4.826	4.826	0.000	126787	0.10000	0.100
	5 delta-BHC	5.080	5.080	0.000	249948	0.10000	0.0999
	6 Heptachlor	5.400	5.400	0.000	267926	0.10000	0.100
	7 Aldrin	5.853	5.853	0.000	259763	0.10000	0.0999
	8 Heptachlor Epoxide	6.773	6.760	0.013	226327	0.10000	0.1000
	9 gamma-Chlordane	6.973	6.973	0.000	239096	0.10000	0.100
	10 alpha-Chlordane	7.186	7.186	0.000	234501	0.10000	0.100
	11 4,4'-DDE	7.333	7.333	0.000	218739	0.10000	0.0999
	12 Endosulfan I	7.400	7.386	0.014	224320	0.10000	0.1000
	13 Dieldrin	7.826	7.813	0.013	221842	0.10000	0.0999
	14 Endrin	8.266	8.266	0.000	203202	0.10000	0.0999
	15 4,4'-DDD	8.453	8.453	0.000	152211	0.10000	0.0999
	16 Endosulfan II	8.720	8.720	0.000	168424	0.10000	0.100
	17 4,4'-DDT	9.106	9.093	0.013	159853	0.10000	0.0999
	18 Endrin Aldehyde	9.733	9.733	0.000	94203	0.10000	0.100
	19 Methoxychlor	10.520	10.520	0.000	82986	0.10000	0.1000
	20 Endosulfan sulfate	11.013	11.013	0.000	108714	0.10000	0.100
	21 Endrin Ketone	11.986	11.973	0.013	134689	0.10000	0.0999
$	22 Decachlorobiphenyl	15.893	15.893	0.000	148031	0.10000	0.100

BRS 12/13/~

Data File: \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1100.d
Date : 13-DEC-2002 00:09
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0.B,1,INDAB 0.1PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000079

Katahdin Analytical Services

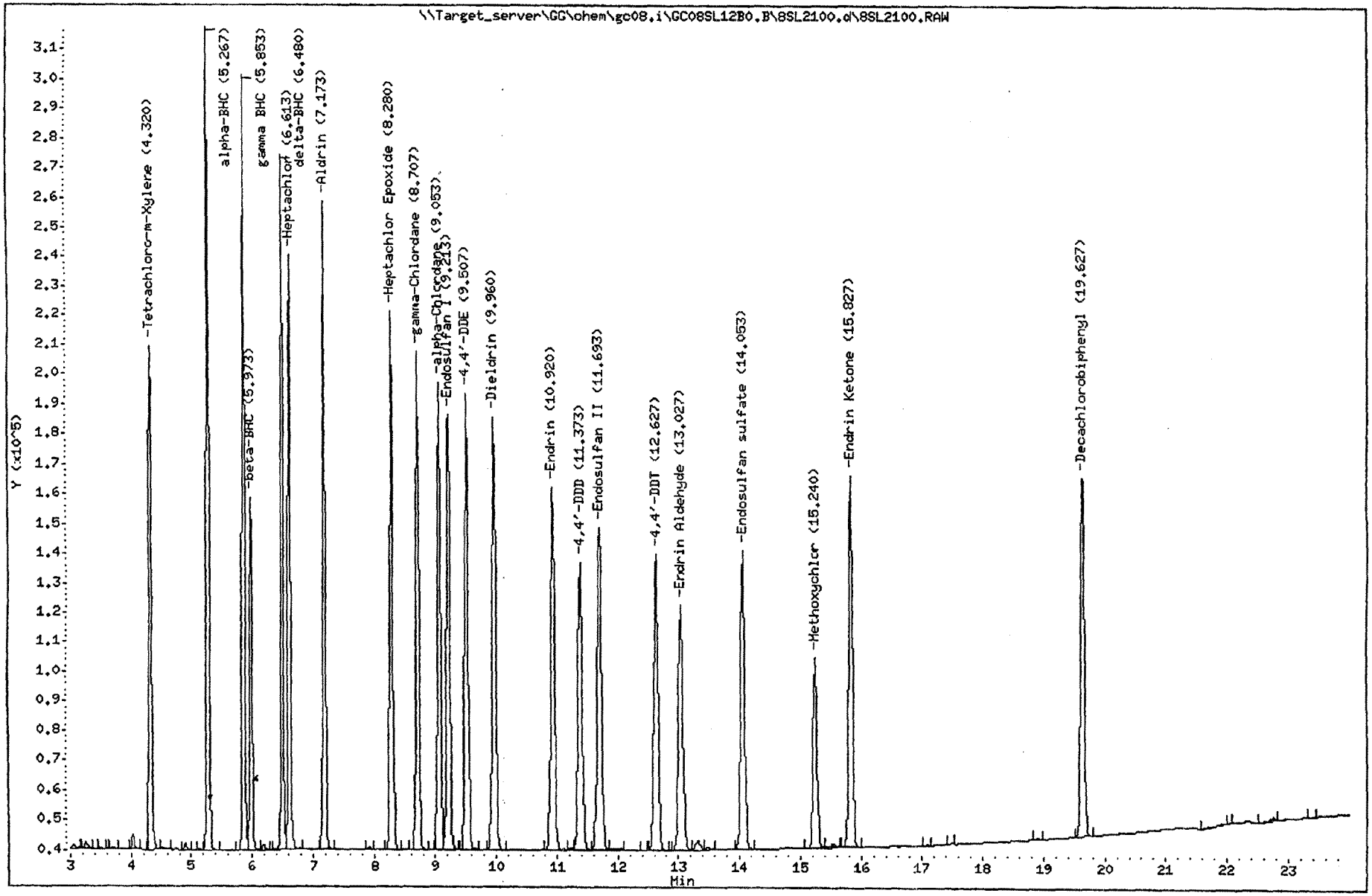
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2100.d
Lab Smp Id: INDAB 0.1PPM Client Smp ID: ICAL
Inj Date : 13-DEC-2002 00:09
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.1PPM
Misc Info : ICAL.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:09 Cal File: 8SL2100.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	169469	0.10000	0.100
$ 22 Decachlorobiphenyl	19.626	19.640	-0.014	120391	0.10000	0.100
2 alpha-BHC	5.266	5.266	0.000	277705	0.10000	0.0999
6 Heptachlor	6.613	6.613	0.000	200557	0.10000	0.0998
7 Aldrin	7.173	7.173	0.000	218485	0.10000	0.1000
8 Heptachlor Epoxide	8.280	8.280	0.000	181103	0.10000	0.100
9 gamma-Chlordane	8.706	8.706	0.000	167483	0.10000	0.100
10 alpha-Chlordane	9.053	9.053	0.000	156972	0.10000	0.100
3 gamma BHC	5.853	5.853	0.000	261114	0.10000	0.0999
4 beta-BHC	5.973	5.973	0.000	118550	0.10000	0.100
5 delta-BHC	6.480	6.493	-0.013	233927	0.10000	0.0999
11 4,4'-DDE	9.506	9.506	0.000	153191	0.10000	0.1000
12 Endosulfan I	9.213	9.213	0.000	146185	0.10000	0.100
13 Dieldrin	9.960	9.960	0.000	145484	0.10000	0.1000
14 Endrin	10.920	10.920	0.000	122021	0.10000	0.1000
15 4,4'-DDD	11.373	11.373	0.000	96996	0.10000	0.0999
16 Endosulfan II	11.693	11.693	0.000	108248	0.10000	0.100
17 4,4'-DDT	12.626	12.626	0.000	99802	0.10000	0.1000
18 Endrin Aldehyde	13.026	13.026	0.000	82581	0.10000	0.100
19 Methoxychlor	15.240	15.240	0.000	63564	0.10000	0.100
20 Endosulfan sulfate	14.053	14.053	0.000	100501	0.10000	0.100
21 Endrin Ketone	15.826	15.826	0.000	125183	0.10000	0.100

Data File: \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2100.d
Date : 13-DEC-2002 00:09
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTB051A.M,GC08SL12A0.B,1,INDAB 0.1PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000081

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1101.d
Lab Smp Id: INDAB 0.25PPM Client Smp ID: ICAL
Inj Date : 13-DEC-2002 00:35
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.25PPM
Misc Info : ICAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

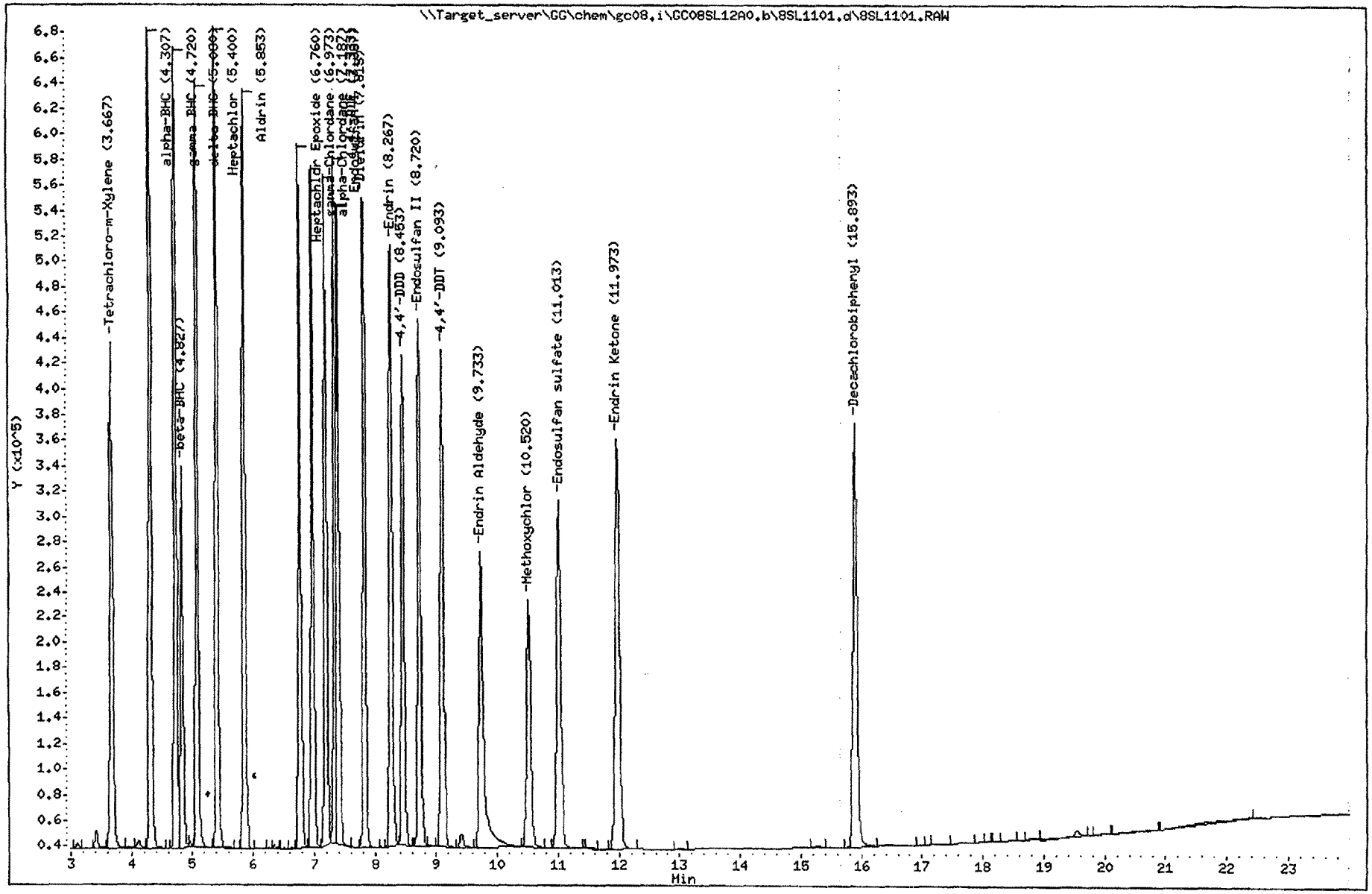
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tetrachloro-m-Xylene	3.666	3.666	0.000	397956	0.25000	0.250
	2 alpha-BHC	4.306	4.306	0.000	645052	0.25000	0.250
	3 gamma BHC	4.720	4.720	0.000	629508	0.25000	0.250
	4 beta-BHC	4.826	4.826	0.000	300885	0.25000	0.250
	5 delta-BHC	5.080	5.080	0.000	601416	0.25000	0.250
	6 Heptachlor	5.400	5.400	0.000	645700	0.25000	0.250
	7 Aldrin	5.853	5.853	0.000	597002	0.25000	0.250
	8 Heptachlor Epoxide	6.760	6.760	0.000	553688	0.25000	0.250
	9 gamma-Chlordane	6.973	6.973	0.000	535683	0.25000	0.250
	10 alpha-Chlordane	7.186	7.186	0.000	527365	0.25000	0.250
	11 4,4'-DDE	7.333	7.333	0.000	540856	0.25000	0.250
	12 Endosulfan I	7.386	7.386	0.000	503882	0.25000	0.250
	13 Dieldrin	7.813	7.813	0.000	510914	0.25000	0.250
	14 Endrin	8.266	8.266	0.000	472917	0.25000	0.250
	15 4,4'-DDD	8.453	8.453	0.000	384849	0.25000	0.250
	16 Endosulfan II	8.720	8.720	0.000	414792	0.25000	0.250
	17 4,4'-DDT	9.093	9.093	0.000	391030	0.25000	0.250
	18 Endrin Aldehyde	9.733	9.733	0.000	233203	0.25000	0.250
	19 Methoxychlor	10.520	10.520	0.000	194572	0.25000	0.250
	20 Endosulfan sulfate	**11.013**	**11.013**	**0.000**	**274515**	**0.25000**	**0.250**
	21 Endrin Ketone	11.973	11.973	0.000	322951	0.25000	0.250
$	22 Decachlorobiphenyl	15.893	15.893	0.000	332942	0.25000	0.250

12/13

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1101.d
Date : 13-DEC-2002 00:35
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0,B,1,INDAB 0.25PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000083

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2101.d
Lab Smp Id: INDAB 0.25PPM Client Smp ID: ICAL
Inj Date : 13-DEC-2002 00:35
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.25PPM
Misc Info : ICAL.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL2101.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

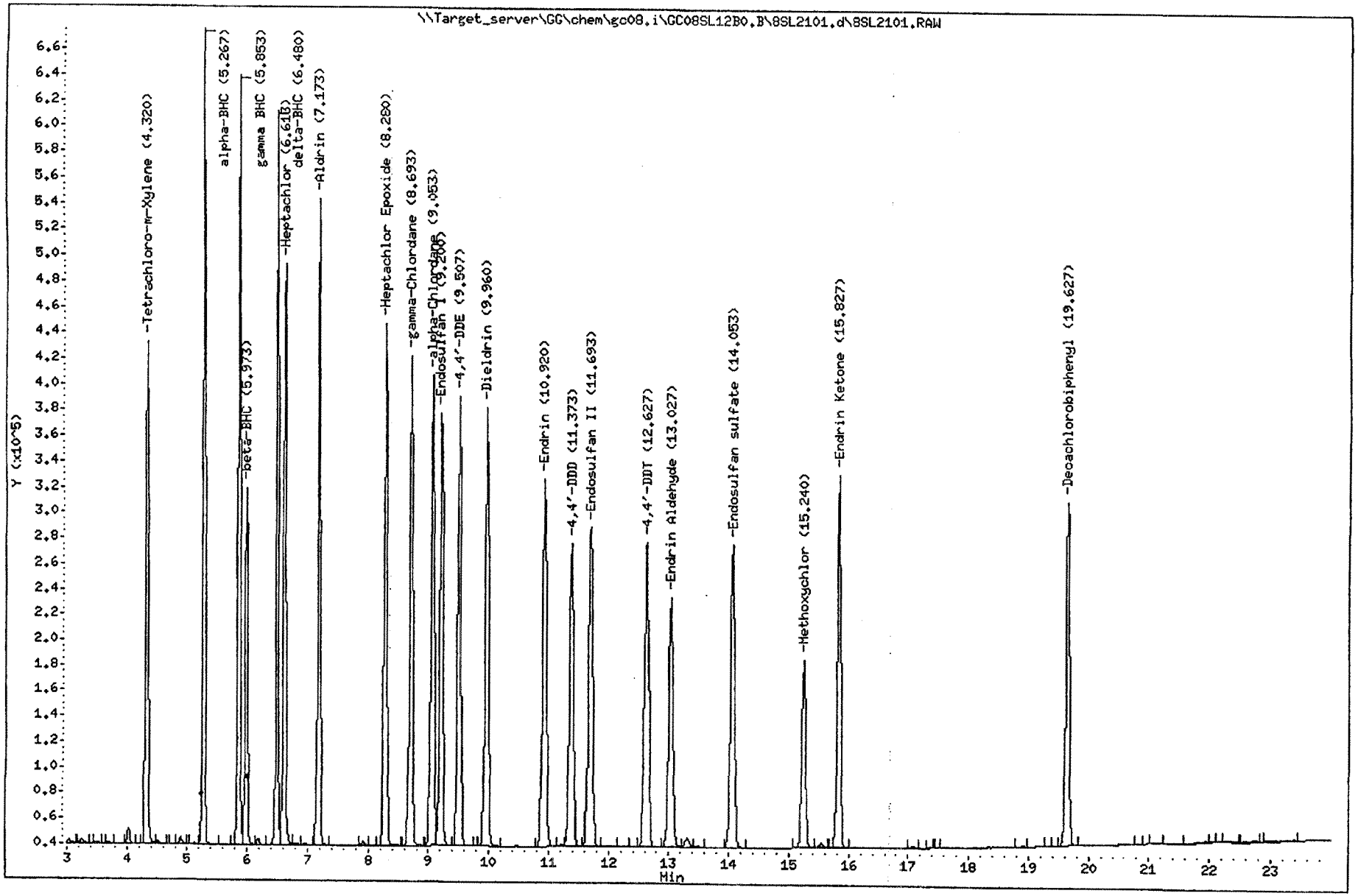
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	392869	0.25000	0.250
$ 22 Decachlorobiphenyl	19.626	19.640	-0.014	268412	0.25000	0.250
2 alpha-BHC	5.266	5.266	0.000	636538	0.25000	0.250
6 Heptachlor	6.613	6.613	0.000	453867	0.25000	0.250
7 Aldrin	7.173	7.173	0.000	503584	0.25000	0.250
8 Heptachlor Epoxide	8.280	8.280	0.000	407513	0.25000	0.250
9 gamma-Chlordane	8.693	8.706	-0.013	383382	0.25000	0.250
10 alpha-Chlordane	9.053	9.053	0.000	368333	0.25000	0.250
3 gamma BHC	5.853	5.853	0.000	599723	0.25000	0.250
4 beta-BHC	5.973	5.973	0.000	280239	0.25000	0.250
5 delta-BHC	6.480	6.493	-0.013	572606	0.25000	0.250
11 4,4'-DDE	9.506	9.506	0.000	352047	0.25000	0.250
12 Endosulfan I	9.200	9.213	-0.013	339208	0.25000	0.250
13 Dieldrin	9.960	9.960	0.000	343373	0.25000	0.250
14 Endrin	10.920	10.920	0.000	287866	0.25000	0.250
15 4,4'-DDD	11.373	11.373	0.000	237558	0.25000	0.250
16 Endosulfan II	11.693	11.693	0.000	250186	0.25000	0.250
17 4,4'-DDT	12.626	12.626	0.000	239115	0.25000	0.250
18 Endrin Aldehyde	13.026	13.026	0.000	195792	0.25000	0.250
19 Methoxychlor	15.240	15.240	0.000	146577	0.25000	0.250
20 Endosulfan sulfate	14.053	14.053	0.000	236887	0.25000	0.250
21 Endrin Ketone	15.826	15.826	0.000	291286	0.25000	0.250

RES 12/13/02

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2101.d
Date : 13-DEC-2002 00:35
Client ID: ICAL
Sample Info: PSTB051A.M,GC08SL12A0.B,1,INDAB 0.25PPM
Purge Volume: 1.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000085

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 0103

Lab File ID: 8SL1102 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Endosulfan I	5.12e-002	5.e-002	2396100.0	0.01	2.40	15.00	2RDR
gamma BHC	5.29e-002	5.e-002	2746400.0	0.01	5.80	15.00	2RDR
beta-BHC	5.29e-002	5.e-002	1383700.0	0.01	5.80	15.00	2RDR
delta-BHC	5.19e-002	5.e-002	2590200.0	0.01	3.80	15.00	2RDR
Heptachlor	5.32e-002	5.e-002	2893600.0	0.01	6.40	15.00	2RDR
Aldrin	5.19e-002	5.e-002	2758600.0	0.01	3.80	15.00	2RDR
Heptachlor Epoxide	5.28e-002	5.e-002	2469600.0	0.01	5.60	15.00	2RDR
gamma-Chlordane	5.12e-002	5.e-002	2563700.0	0.01	2.40	15.00	2RDR
alpha-Chlordane	5.18e-002	5.e-002	2553400.0	0.01	3.60	15.00	2RDR
4,4'-DDE	5.28e-002	5.e-002	2298400.0	0.01	5.60	15.00	2RDR
alpha-BHC	5.22e-002	5.e-002	2933900.0	0.01	4.40	15.00	2RDR
Dieldrin	5.07e-002	5.e-002	2303300.0	0.01	1.40	15.00	2RDR
Endrin	5.12e-002	5.e-002	2118100.0	0.01	2.40	15.00	2RDR
4,4'-DDD	5.19e-002	5.e-002	1543100.0	0.01	3.80	15.00	2RDR
Endosulfan II	5.29e-002	5.e-002	1805800.0	0.01	5.80	15.00	2RDR
4,4'-DDT	5.09e-002	5.e-002	1630200.0	0.01	1.80	15.00	2RDR
Endrin Aldehyde	5.33e-002	5.e-002	1011300.0	0.01	6.60	15.00	2RDR
Methoxychlor	5.21e-002	5.e-002	897660.00	0.01	4.20	15.00	2RDR
Endosulfan sulfate	5.23e-002	5.e-002	1126700.0	0.01	4.60	15.00	2RDR
Endrin Ketone	5.16e-002	5.e-002	1420000.0	0.01	3.20	15.00	2RDR

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1102.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: IND SOURCE
Inj Date : 13-DEC-2002 01:03
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : IND.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: IND.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
2 alpha-BHC	4.320	4.306	0.014	146697	0.05000	0.0522
3 gamma BHC	4.720	4.720	0.000	137318	0.05000	0.0529 (M)
4 beta-BHC	4.826	4.826	0.000	69183	0.05000	0.0529 (M)
5 delta-BHC	5.080	5.080	0.000	129508	0.05000	0.0519
6 Heptachlor	5.400	5.400	0.000	144678	0.05000	0.0532
7 Aldrin	5.853	5.853	0.000	137932	0.05000	0.0519
8 Heptachlor Epoxide	6.760	6.760	0.000	123482	0.05000	0.0528
9 gamma-Chlordane	6.973	6.973	0.000	128185	0.05000	0.0512
10 alpha-Chlordane	7.186	7.186	0.000	127669	0.05000	0.0518
11 4,4'-DDE	7.333	7.333	0.000	114919	0.05000	0.0528
12 Endosulfan I	7.400	7.386	0.014	119803	0.05000	0.0512
13 Dieldrin	7.826	7.813	0.013	115167	0.05000	0.0507
14 Endrin	8.266	8.266	0.000	105904	0.05000	0.0512
15 4,4'-DDD	8.453	8.453	0.000	77155	0.05000	0.0518
16 Endosulfan II	8.720	8.720	0.000	90288	0.05000	0.0529
17 4,4'-DDT	9.106	9.093	0.013	81508	0.05000	0.0509
18 Endrin Aldehyde	9.733	9.733	0.000	50563	0.05000	0.0532
19 Methoxychlor	10.520	10.520	0.000	44883	0.05000	0.0521
20 Endosulfan sulfate	11.013	11.013	0.000	56334	0.05000	0.0523
21 Endrin Ketone	11.973	11.973	0.000	71001	0.05000	0.0516

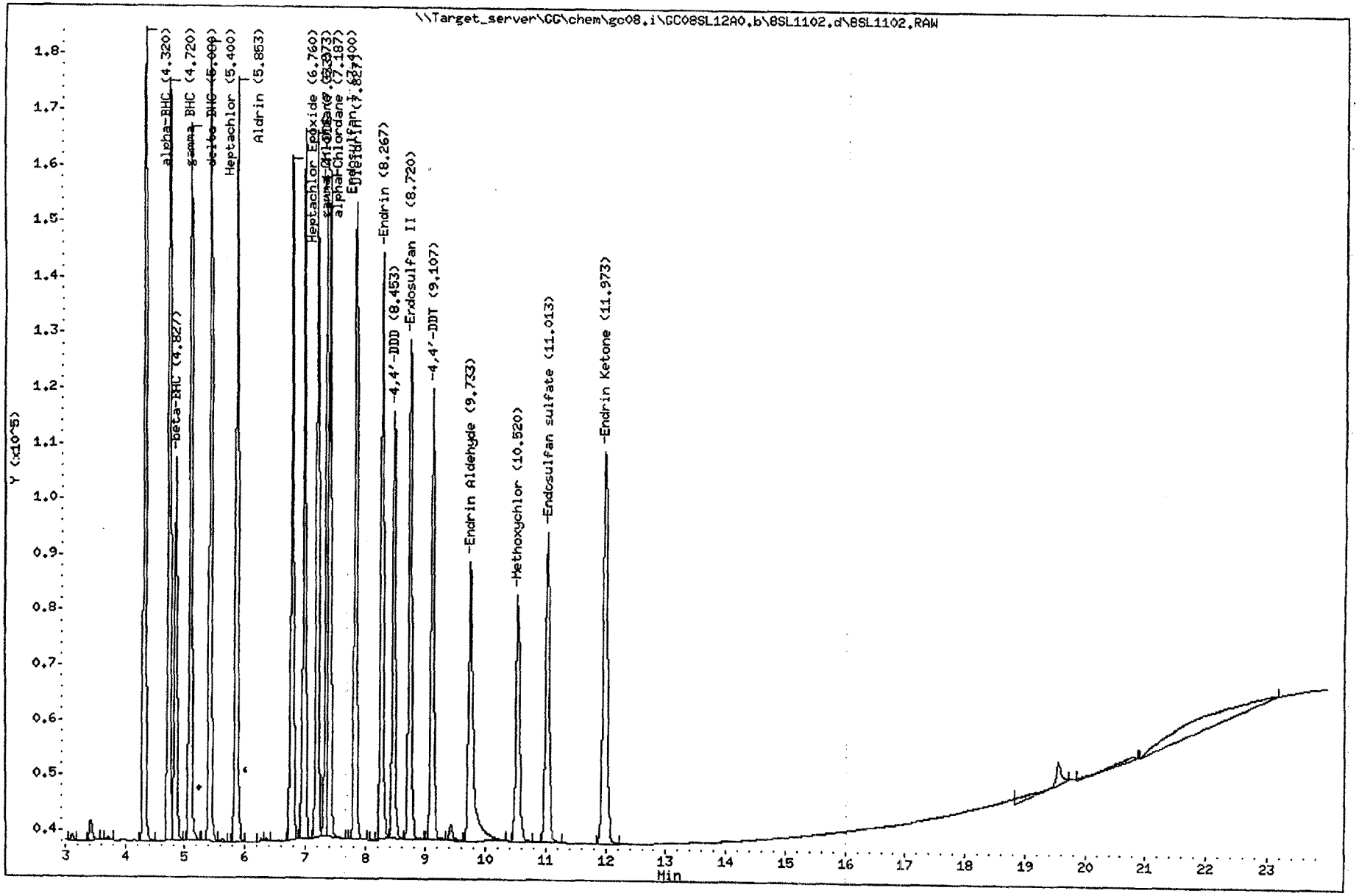
12/13/02

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1102.d
Date : 13-DEC-2002 01:03
Client ID: IND SOURCE
Sample Info: PSTA051A,M,GC08SL12A0,B,1,INDAB 0.05PPM
Purge Volume: 1.0
Column phase: RTX-CLPI

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000089

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 0103

Lab File ID: 8SL2102 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4,4'-DDE	5.19e-002	5.e-002	1643800.0	0.01	3.80	15.00	2RDR
gamma BHC	5.24e-002	5.e-002	2811400.0	0.01	4.80	15.00	2RDR
beta-BHC	5.29e-002	5.e-002	1287700.0	0.01	5.80	15.00	2RDR
delta-BHC	5.28e-002	5.e-002	2509900.0	0.01	5.60	15.00	2RDR
Heptachlor	4.98e-002	5.e-002	2122800.0	0.01	-0.40	15.00	2RDR
Aldrin	5.27e-002	5.e-002	2360500.0	0.01	5.40	15.00	2RDR
Heptachlor Epoxide	5.24e-002	5.e-002	1983400.0	0.01	4.80	15.00	2RDR
gamma-Chlordane	5.2e-002	5.e-002	1813900.0	0.01	4.00	15.00	2RDR
alpha-Chlordane	5.33e-002	5.e-002	1724100.0	0.01	6.60	15.00	2RDR
Endosulfan I	5.21e-002	5.e-002	1580800.0	0.01	4.20	15.00	2RDR
alpha-BHC	5.27e-002	5.e-002	3007000.0	0.01	5.40	15.00	2RDR
Dieldrin	5.22e-002	5.e-002	1534100.0	0.01	4.40	15.00	2RDR
Endrin	5.21e-002	5.e-002	1288400.0	0.01	4.20	15.00	2RDR
4,4'-DDD	5.16e-002	5.e-002	992840.00	0.01	3.20	15.00	2RDR
Endosulfan II	5.17e-002	5.e-002	1154300.0	0.01	3.40	15.00	2RDR
4,4'-DDT	5.14e-002	5.e-002	1034100.0	0.01	2.80	15.00	2RDR
Endrin Aldehyde	5.31e-002	5.e-002	895700.00	0.01	6.20	15.00	2RDR
Endosulfan sulfate	5.22e-002	5.e-002	1077200.0	0.01	4.40	15.00	2RDR
Methoxychlor	5.3e-002	5.e-002	704620.00	0.01	6.00	15.00	2RDR
Endrin Ketone	5.27e-002	5.e-002	1355700.0	0.01	5.40	15.00	2RDR

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2102.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: IND SOURCE
Inj Date : 13-DEC-2002 01:03
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : IND.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL2101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: IND.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

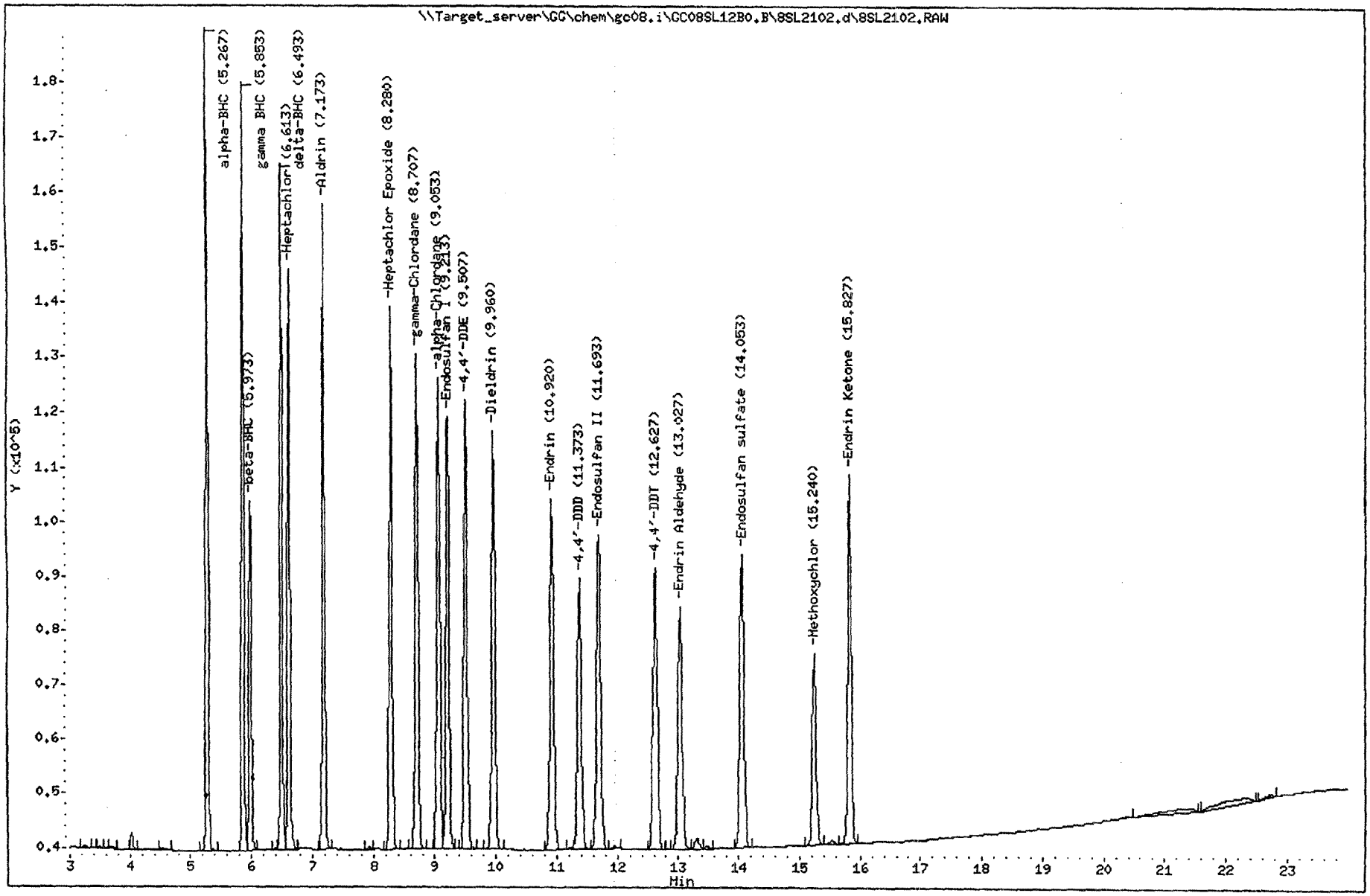
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
2 alpha-BHC	5.266	5.266	0.000	150352	0.05000	0.0527
3 gamma BHC	5.853	5.853	0.000	140570	0.05000	0.0524 (M)
4 beta-BHC	5.973	5.973	0.000	64383	0.05000	0.0529 (M)
5 delta-BHC	6.493	6.493	0.000	125494	0.05000	0.0528 (M)
6 Heptachlor	6.613	6.613	0.000	106140	0.05000	0.0498 (M)
7 Aldrin	7.173	7.173	0.000	118024	0.05000	0.0527
8 Heptachlor Epoxide	8.280	8.280	0.000	99170	0.05000	0.0524
9 gamma-Chlordane	8.706	8.706	0.000	90693	0.05000	0.0520
10 alpha-Chlordane	9.053	9.053	0.000	86203	0.05000	0.0533 (M)
12 Endosulfan I	9.213	9.213	0.000	79039	0.05000	0.0521 (M)
11 4,4'-DDE	9.506	9.506	0.000	82188	0.05000	0.0519
13 Dieldrin	9.960	9.960	0.000	76704	0.05000	0.0522
14 Endrin	10.920	10.920	0.000	64419	0.05000	0.0521
15 4,4'-DDD	11.373	11.373	0.000	49642	0.05000	0.0516
16 Endosulfan II	11.693	11.693	0.000	57714	0.05000	0.0517
17 4,4'-DDT	12.626	12.626	0.000	51705	0.05000	0.0514
18 Endrin Aldehyde	13.026	13.026	0.000	44785	0.05000	0.0531
20 Endosulfan sulfate	14.053	14.053	0.000	53861	0.05000	0.0522
19 Methoxychlor	15.240	15.240	0.000	35231	0.05000	0.0530
21 Endrin Ketone	15.826	15.826	0.000	67785	0.05000	0.0527

12/13/02

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2102.d
Date : 13-DEC-2002 01:03
Client ID: IND SOURCE
Instrument: gc08.i
Sample Info: PSTB051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000093

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1103.d
Lab Smp Id: TOXAPHENE 1.0PPM Client Smp ID: ICAL
Inj Date : 13-DEC-2002 01:30
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,TOXAPHENE 1.0PPM
Misc Info : TOX.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TOX.SUB
Target Version: 4.12 Sample Matrix: WATER
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	AMOUNTS RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	TARGET RANGE	RATIO
40 Toxaphene					CAS #: 8001-35-2		
8.466	8.533	-0.067	23973	1.00000		80.00- 120.00	100.00(a)
8.706	8.746	-0.040	26556	1.00000		88.62- 132.93	110.77
9.133	9.160	-0.027	8689	1.00000		29.00- 43.49	36.24
9.466	9.453	0.013	18288	1.00000		61.03- 91.54	76.29
10.106	10.053	0.053	35631	1.00000		118.90- 178.36	148.63
10.440	10.400	0.040	26300	1.00000		87.77- 131.65	109.71
10.733	10.680	0.053	55651	1.00000		185.71- 278.57	232.14
11.320	11.333	-0.013	17229	1.00000		57.49- 86.24	71.87
11.733	11.693	0.040	8297	1.00000		27.69- 41.53	34.61
12.586	12.653	-0.067	15109	1.00000		50.42- 75.63	63.03

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1103.d

Date : 13-DEC-2002 01:30

Client ID: ICAL

Instrument: gc08.i

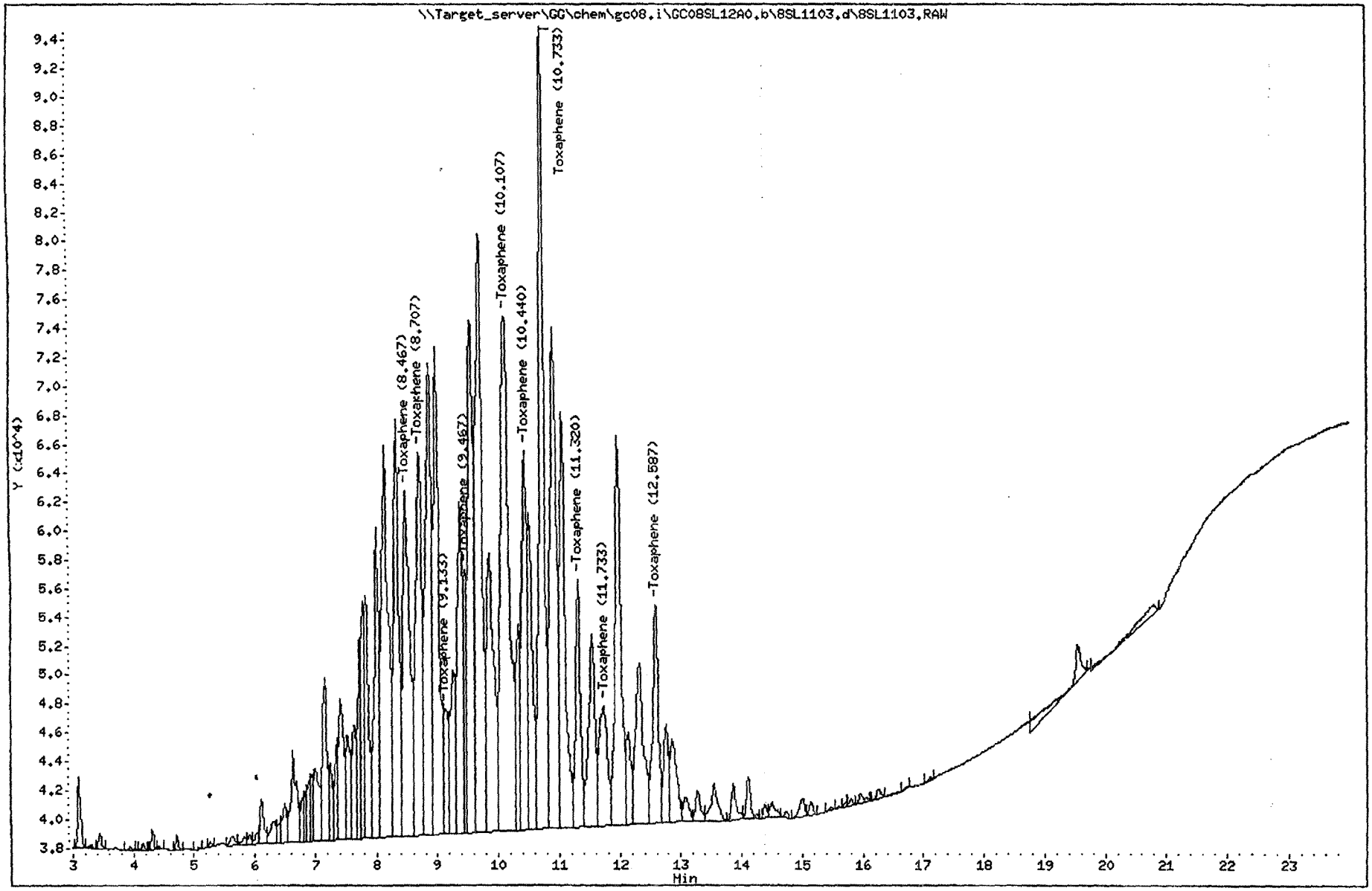
Sample Info: PSTA051A,M,GC08SL12A0,B,1,TOXAPHENE 1.0PPM

Purge Volume: 1.0

Operator: LRS

Column phase: RTX-CLPI

Column diameter: 0.53



Katahdin Analytical Services 3000095

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2103.d
Lab Smp Id: TOXAPHENE 1.0PPM Client Smp ID: ICAL
Inj Date : 13-DEC-2002 01:30
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,TOXAPHENE 1.0PPM
Misc Info : TOX.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL2101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TOX.SUB
Target Version: 4.12 Sample Matrix: WATER
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

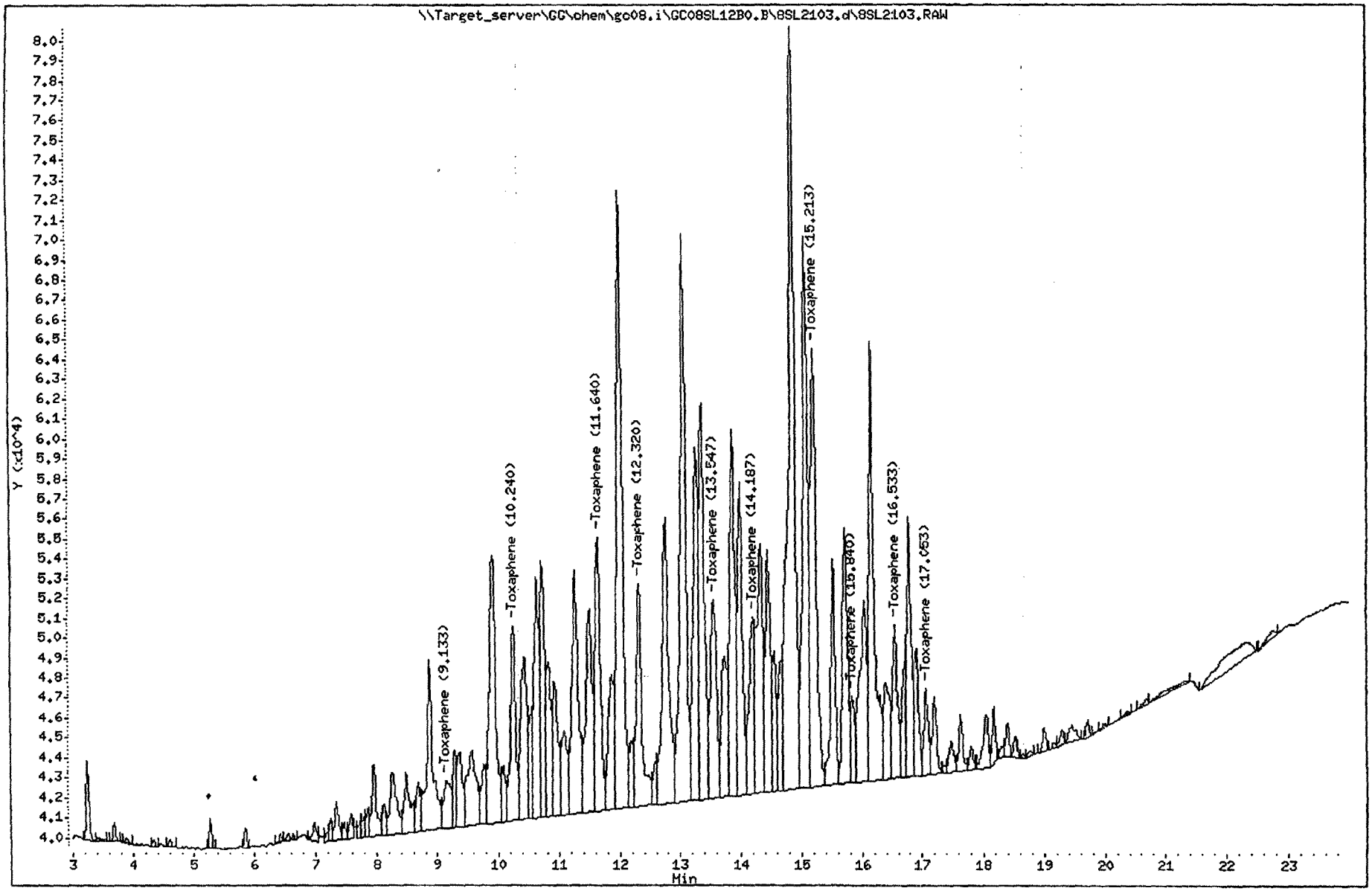
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO
40 Toxaphene					CAS #: 8001-35-2		
9.133	9.146	-0.013	2343	1.00000		80.00- 120.00	100.00(aM)
10.240	10.240	0.000	9756	1.00000		333.11- 499.67	416.39
11.640	11.666	-0.026	13766	1.00000		470.03- 705.04	587.54
12.320	12.440	-0.120	11152	1.00000		380.78- 571.17	475.97
13.546	13.453	0.093	9936	1.00000		339.26- 508.89	424.07
14.186	14.240	-0.054	8854	1.00000		302.31- 453.47	377.89
15.213	15.213	0.000	22011	1.00000		751.55-1127.32	939.44
15.840	15.866	-0.026	4332	1.00000		147.91- 221.87	184.89
16.533	16.480	0.053	7657	1.00000		261.44- 392.16	326.80
17.053	17.106	-0.053	4335	1.00000		148.02- 222.02	185.02

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2103.d
Date : 13-DEC-2002 01:30
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTB051A.M,GC08SL12A0.B,1,TOXAPHENE 1.0PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000097

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1104.d
Lab Smp Id: CHLORDANE 0.5PPM Client Smp ID: ICAL
Inj Date : 13-DEC-2002 01:57
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,CHLORDANE 0.5PPM
Misc Info : TC.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 13-Dec-2002 08:19 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TC.SUB
Target Version: 4.12 Sample Matrix: WATER
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

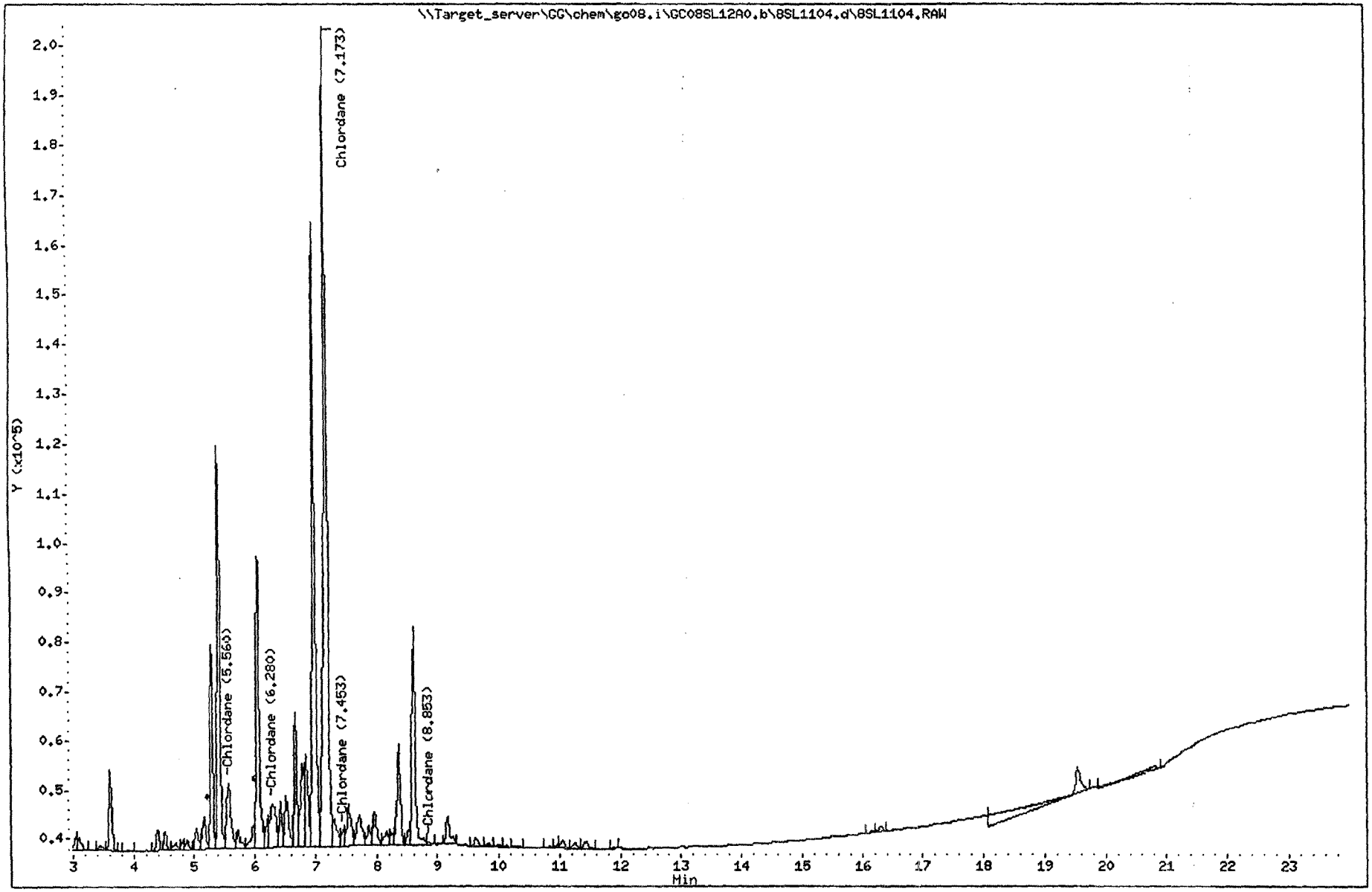
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO
41 Chlordane					CAS #: 12789-03-6		
5.560	5.493	0.067	13149	0.50000		80.00- 120.00	100.00(a)
6.280	6.253	0.027	8911	0.50000		54.22- 81.32	67.77
7.173	7.186	-0.013	165496	0.50000		1006.90-1510.34	1258.62
7.453	7.400	0.053	3342	0.50000		20.33- 30.50	25.42
8.853	8.813	0.040	517	0.50000		3.15- 4.72	3.93

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1104.d
Date : 13-DEC-2002 01:57
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTA051A.M,GC08SL12A0.B,1,CHLORDANE 0.5PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000099

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2104.d
Lab Smp Id: CHLORDANE 0.5PPM Client Smp ID: ICAL
Inj Date : 13-DEC-2002 01:57
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,CHLORDANE 0.5PPM
Misc Info : TC.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 13-Dec-2002 08:28 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL2101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TC.SUB
Target Version: 4.12 Sample Matrix: WATER
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

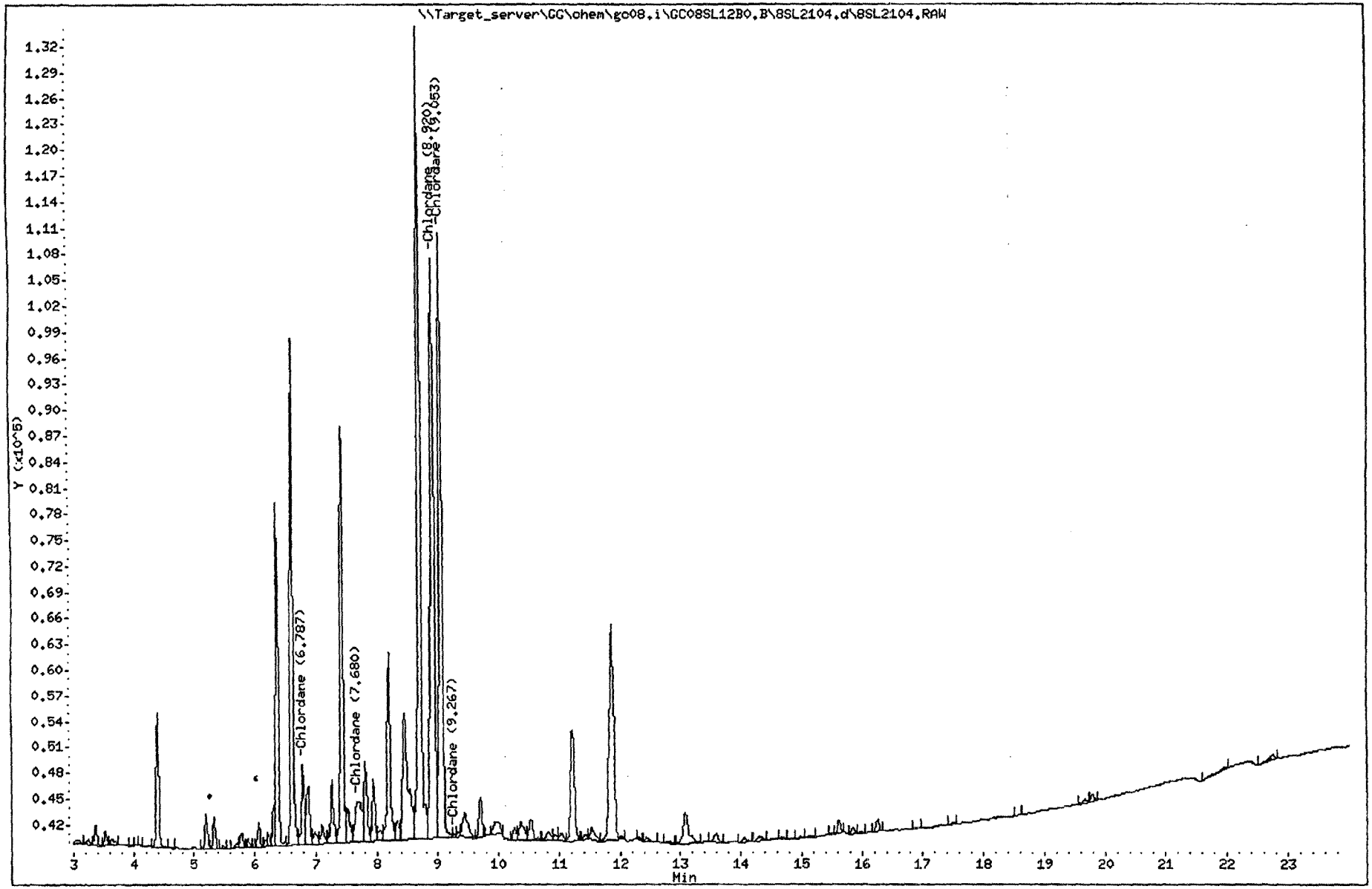
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)	TARGET RANGE	RATIO
41 Chlordane					CAS #: 12789-03-6		
6.786	6.813	-0.027	9337	0.50000		80.00- 120.00	100.00(a)
7.680	7.640	0.040	4717	0.50000		40.42- 60.62	50.52
8.920	8.893	0.027	67147	0.50000		575.32- 862.98	719.15
9.053	9.120	-0.067	69852	0.50000		598.50- 897.74	748.12
9.266	9.266	0.000	355	0.50000		3.04- 4.56	3.80

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2104.d
Date : 13-DEC-2002 01:57
Client ID: ICAL
Instrument: gc08.i
Sample Info: PSTB051A,M,GC08SL12A0,B,1,CHLORDANE 0.5PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000101

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL
Lab Sample ID (PEM): EVAL

Date Analyzed :12/13/02
Time Analyzed :0826

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL1106.d	1.42	0.27

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

Katahdin Analytical Services

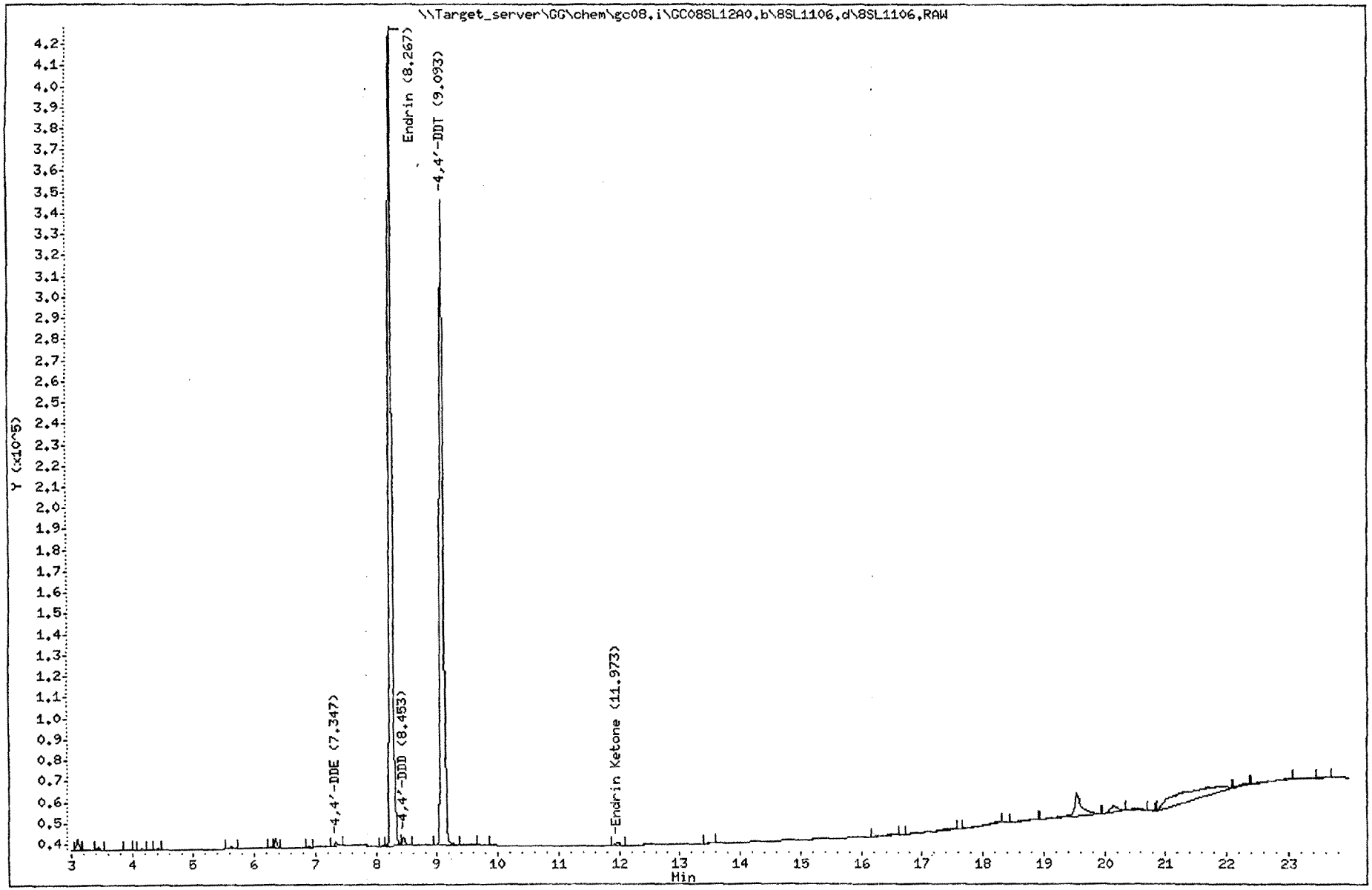
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1106.d
Lab Smp Id: EVAL Client Smp ID: EVAL
Inj Date : 13-DEC-2002 08:26
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,EVAL
Misc Info : EVAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
11 4,4'-DDE	7.346	7.333	0.013	1370	0.00123	0.0123
14 Endrin	8.266	8.266	0.000	389475	0.20155	2.02
15 4,4'-DDD	8.453	8.453	0.000	3049	0.00311	0.0311
17 4,4'-DDT	9.093	9.093	0.000	307071	0.19472	1.95
21 Endrin Ketone	11.973	11.973	0.000	1049	7e-004	0.00746

Data File: \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1106.d
Date : 13-DEC-2002 08:26
Client ID: EVAL
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0,B,1,EVAL
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000104

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL
Lab Sample ID (PEM): EVAL

Date Analyzed :12/13/02
Time Analyzed :0826

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL2106.d	1.63	0.67

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 0853

Lab File ID: 8SL1107 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.19e-002	5.e-002	2915900.0	0.01	3.80	15.00	2RDR
gamma BHC	5.58e-002	5.e-002	2895400.0	0.01	11.60	15.00	2RDR
Heptachlor	5.49e-002	5.e-002	2983400.0	0.01	9.80	15.00	2RDR
beta-BHC	5.44e-002	5.e-002	1420000.0	0.01	8.80	15.00	2RDR
Aldrin	4.94e-002	5.e-002	2628700.0	0.01	-1.20	15.00	2RDR
delta-BHC	5.16e-002	5.e-002	2576600.0	0.01	3.20	15.00	2RDR
Heptachlor Epoxide	5.49e-002	5.e-002	2563100.0	0.01	9.80	15.00	2RDR
Endosulfan I	4.83e-002	5.e-002	2265000.0	0.01	-3.40	15.00	2RDR
4,4'-DDE	5.3e-002	5.e-002	2305900.0	0.01	6.00	15.00	2RDR
Dieldrin	4.86e-002	5.e-002	2210200.0	0.01	-2.80	15.00	2RDR
Endrin	4.8e-002	5.e-002	1990200.0	0.01	-4.00	15.00	2RDR
4,4'-DDD	5.21e-002	5.e-002	1549600.0	0.01	4.20	15.00	2RDR
Endosulfan II	5.32e-002	5.e-002	1814100.0	0.01	6.40	15.00	2RDR
4,4'-DDT	5.09e-002	5.e-002	1630000.0	0.01	1.80	15.00	2RDR
Endrin Aldehyde	5.33e-002	5.e-002	1013000.0	0.01	6.60	15.00	2RDR
Endosulfan sulfate	5.31e-002	5.e-002	1144200.0	0.01	6.20	15.00	2RDR
Methoxychlor	5.26e-002	5.e-002	906300.00	0.01	5.20	15.00	2RDR
alpha-Chlordane	4.78e-002	5.e-002	2364300.0	0.01	-4.40	15.00	2RDR
gamma-Chlordane	4.86e-002	5.e-002	2438900.0	0.01	-2.80	15.00	2RDR
Endrin Ketone	5.22e-002	5.e-002	1434800.0	0.01	4.40	15.00	2RDR
Tetrachloro-m-Xylene	5.45e-002	5.e-002	1938900.0	0.01	9.00	15.00	2RDR
Decachlorobiphenyl	5.38e-002	5.e-002	1737400.0	0.01	7.60	15.00	2RDR

Katahdin Analytical Services

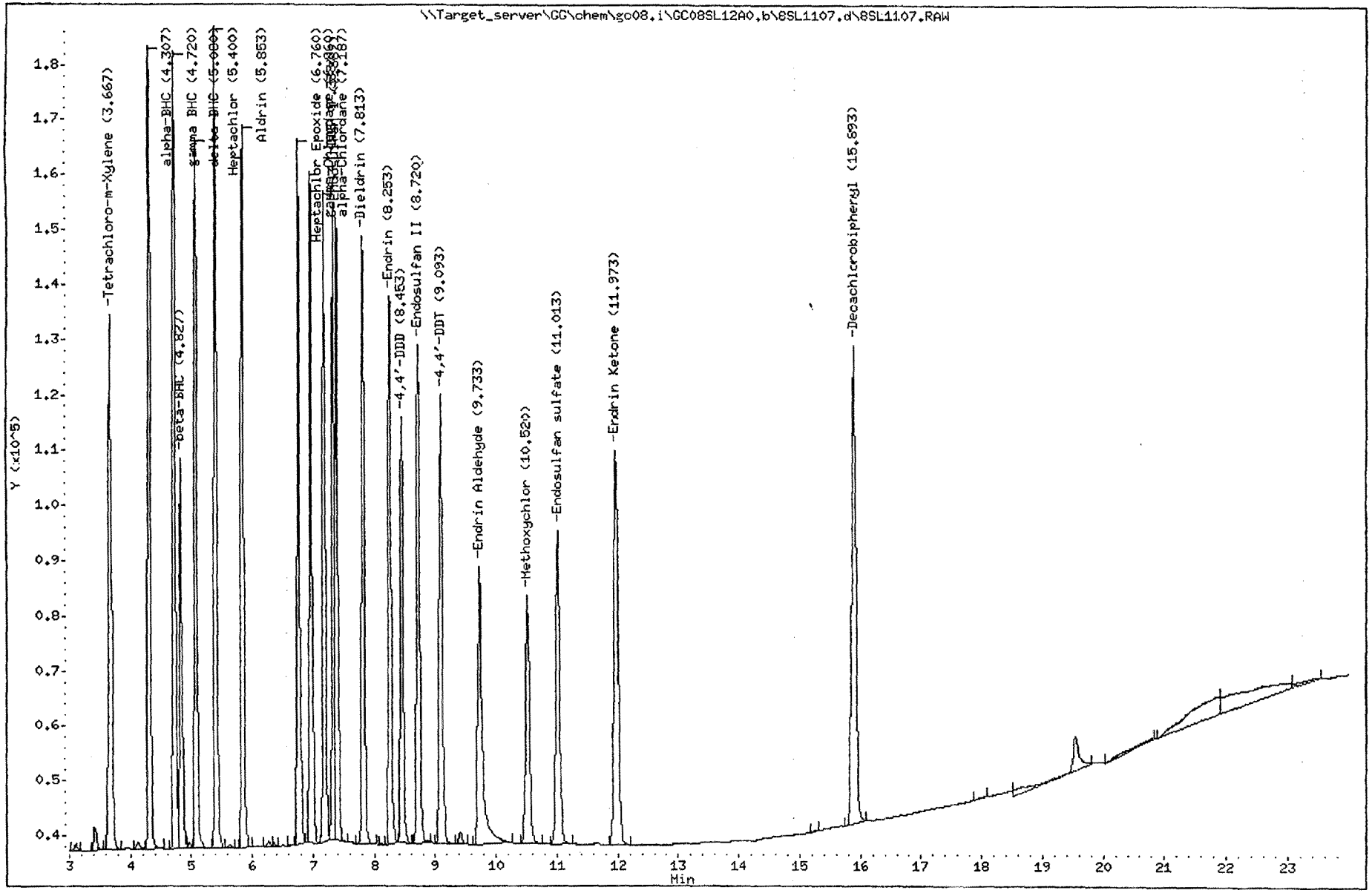
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1107.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: CV
Inj Date : 13-DEC-2002 08:53
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : CV.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CV.SUB
Target Version: 4.12
Processing Host: TARGET_SERVER

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	Tetrachloro-m-Xylene	3.666	3.666	0.000	96943	0.05000	0.0545
2	alpha-BHC	4.306	4.306	0.000	145797	0.05000	0.0519
3	gamma BHC	4.720	4.720	0.000	144772	0.05000	0.0558
4	beta-BHC	4.826	4.826	0.000	71002	0.05000	0.0544
5	delta-BHC	5.080	5.080	0.000	128828	0.05000	0.0516
6	Heptachlor	5.400	5.400	0.000	149172	0.05000	0.0549
7	Aldrin	5.853	5.853	0.000	131436	0.05000	0.0494
8	Heptachlor Epoxide	6.760	6.760	0.000	128157	0.05000	0.0549
9	gamma-Chlordane	6.960	6.973	-0.013	121944	0.05000	0.0486
10	alpha-Chlordane	7.186	7.186	0.000	118217	0.05000	0.0478
11	4,4'-DDE	7.333	7.333	0.000	115295	0.05000	0.0530
12	Endosulfan I	7.386	7.386	0.000	113251	0.05000	0.0483
13	Dieldrin	7.813	7.813	0.000	110511	0.05000	0.0486
14	Endrin	8.253	8.266	-0.013	99508	0.05000	0.0480
15	4,4'-DDD	8.453	8.453	0.000	77478	0.05000	0.0521
16	Endosulfan II	8.720	8.720	0.000	90703	0.05000	0.0532
17	4,4'-DDT	9.093	9.093	0.000	81499	0.05000	0.0509
18	Endrin Aldehyde	9.733	9.733	0.000	50652	0.05000	0.0533
19	Methoxychlor	10.520	10.520	0.000	45315	0.05000	0.0526
20	Endosulfan sulfate	11.013	11.013	0.000	57212	0.05000	0.0531
21	Endrin Ketone	11.973	11.973	0.000	71740	0.05000	0.0522
$ 22	Decachlorobiphenyl	15.893	15.893	0.000	86871	0.05000	0.0538

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1107.d
Date : 13-DEC-2002 08:53
Client ID: CV
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0,B,1,INDAB 0.05PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000110

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 0853

Lab File ID: 8SL2107 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.07e-002	5.e-002	2898200.0	0.01	1.40	15.00	2RDR
gamma BHC	5.16e-002	5.e-002	2771300.0	0.01	3.20	15.00	2RDR
Heptachlor	4.5e-002	5.e-002	1928000.0	0.01	-10.00	15.00	2RDR
beta-BHC	5.37e-002	5.e-002	1306800.0	0.01	7.40	15.00	2RDR
Aldrin	5.03e-002	5.e-002	2255300.0	0.01	0.60	15.00	2RDR
delta-BHC	5.33e-002	5.e-002	2534400.0	0.01	6.60	15.00	2RDR
Heptachlor Epoxide	4.95e-002	5.e-002	1879200.0	0.01	-1.00	15.00	2RDR
Endosulfan I	5.12e-002	5.e-002	1553900.0	0.01	2.40	15.00	2RDR
4,4'-DDE	4.95e-002	5.e-002	1570600.0	0.01	-1.00	15.00	2RDR
Dieldrin	5.e-002	5.e-002	1471200.0	0.01	0.00	15.00	2RDR
Endrin	5.02e-002	5.e-002	1243100.0	0.01	0.40	15.00	2RDR
4,4'-DDD	4.99e-002	5.e-002	960040.00	0.01	-0.20	15.00	2RDR
Endosulfan II	5.e-002	5.e-002	1116300.0	0.01	0.00	15.00	2RDR
4,4'-DDT	4.9e-002	5.e-002	986680.00	0.01	-2.00	15.00	2RDR
Endrin Aldehyde	5.24e-002	5.e-002	883720.00	0.01	4.80	15.00	2RDR
Endosulfan sulfate	5.01e-002	5.e-002	1033800.0	0.01	0.20	15.00	2RDR
Methoxychlor	4.98e-002	5.e-002	664660.00	0.01	-0.40	15.00	2RDR
alpha-Chlordane	5.23e-002	5.e-002	1693100.0	0.01	4.60	15.00	2RDR
gamma-Chlordane	4.94e-002	5.e-002	1728800.0	0.01	-1.20	15.00	2RDR
Endrin Ketone	5.07e-002	5.e-002	1307400.0	0.01	1.40	15.00	2RDR
Tetrachloro-m-Xylene	5.44e-002	5.e-002	1923800.0	0.01	8.80	15.00	2RDR
Decachlorobiphenyl	5.06e-002	5.e-002	1329400.0	0.01	1.20	15.00	2RDR

FORM VII PEST

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2107.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: CV
Inj Date : 13-DEC-2002 08:53
Operator : LRS Inst ID: gc08.i
Smp Info : PSTb051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : CV.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTb051A.m
Meth Date : 16-Dec-2002 07:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CV.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

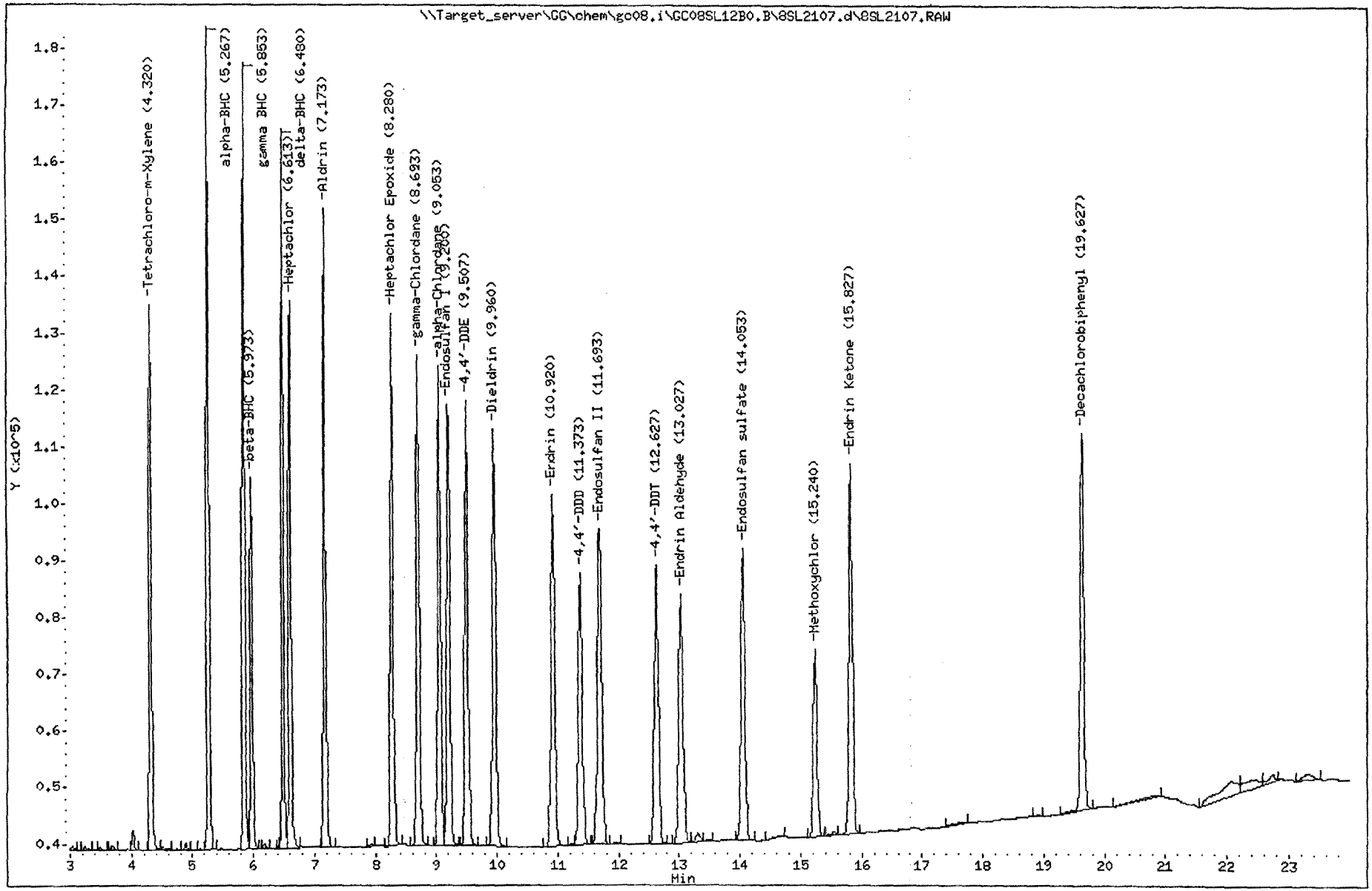
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	96188	0.05000	0.0544
2 alpha-BHC	5.266	5.266	0.000	144908	0.05000	0.0507
3 gamma BHC	5.853	5.853	0.000	138565	0.05000	0.0516(M)
4 beta-BHC	5.973	5.973	0.000	65338	0.05000	0.0537(M)
5 delta-BHC	6.480	6.493	-0.013	126721	0.05000	0.0533(M)
6 Heptachlor	6.613	6.613	0.000	96402	0.05000	0.0450(M)
7 Aldrin	7.173	7.173	0.000	112767	0.05000	0.0503
8 Heptachlor Epoxide	8.280	8.280	0.000	93959	0.05000	0.0495
9 gamma-Chlordane	8.693	8.706	-0.013	86440	0.05000	0.0494
10 alpha-Chlordane	9.053	9.053	0.000	84654	0.05000	0.0523
12 Endosulfan I	9.200	9.213	-0.013	77694	0.05000	0.0512
11 4,4'-DDE	9.506	9.506	0.000	78529	0.05000	0.0495
13 Dieldrin	9.960	9.960	0.000	73560	0.05000	0.0500
14 Endrin	10.920	10.920	0.000	62153	0.05000	0.0502
15 4,4'-DDD	11.373	11.373	0.000	48002	0.05000	0.0499
16 Endosulfan II	11.693	11.693	0.000	55814	0.05000	0.0500
17 4,4'-DDT	12.626	12.626	0.000	49334	0.05000	0.0490
18 Endrin Aldehyde	13.026	13.026	0.000	44186	0.05000	0.0524
20 Endosulfan sulfate	14.053	14.053	0.000	51690	0.05000	0.0501
19 Methoxychlor	15.240	15.240	0.000	33233	0.05000	0.0498
21 Endrin Ketone	15.826	15.826	0.000	65368	0.05000	0.0507
$ 22 Decachlorobiphenyl	19.626	19.640	-0.014	66470	0.05000	0.0506

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2107.d
Date : 13-DEC-2002 08:53
Client ID: CV
Sample Info: PSTb051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Purge Volume: 1.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000114

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/13/02
Lab Sample ID (PEM): EVAL Time Analyzed :1401

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL1118.d	1.98	0.34

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

Katahdin Analytical Services

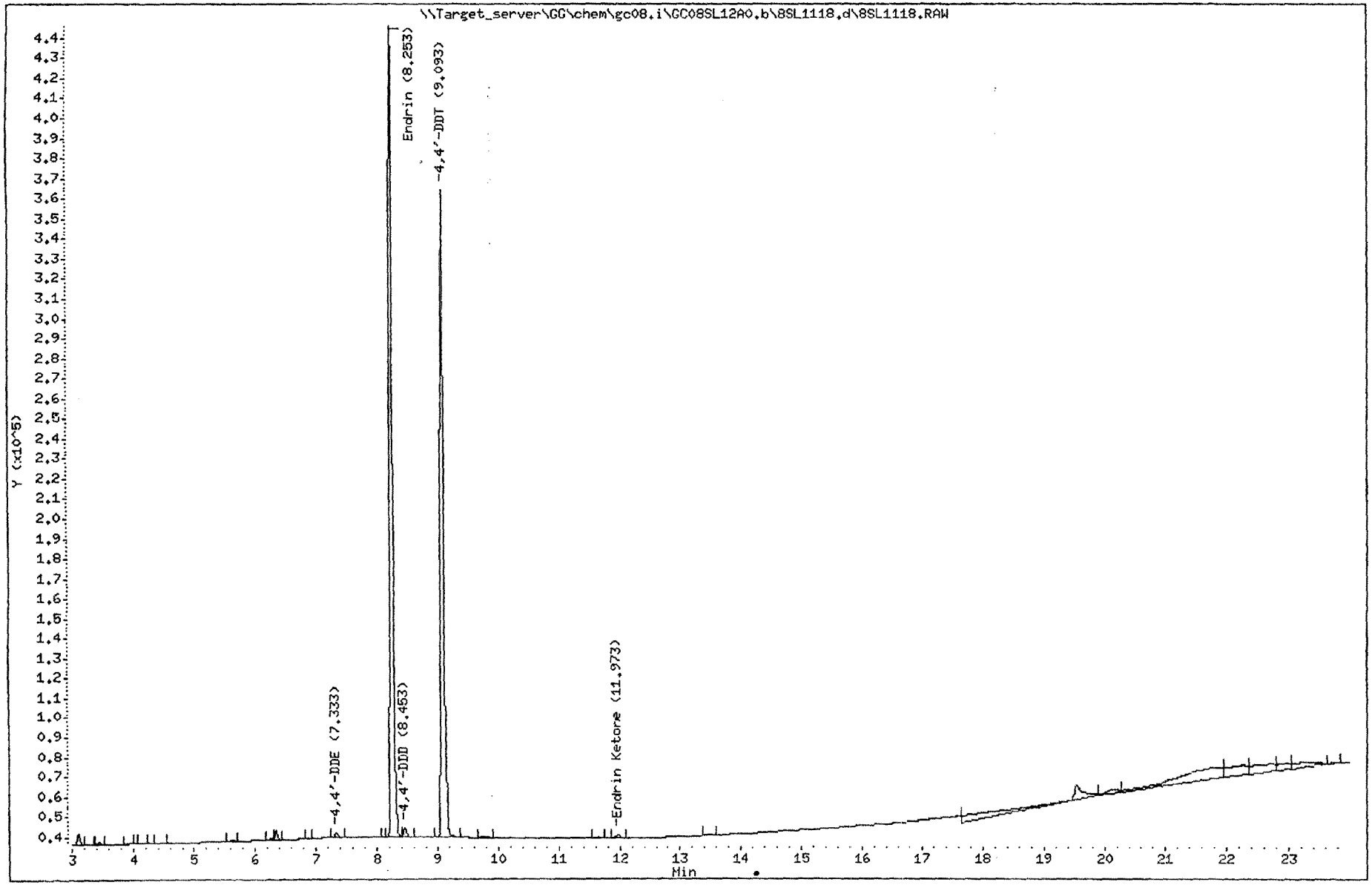
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1118.d
Lab Smp Id: EVAL Client Smp ID: EVAL
Inj Date : 13-DEC-2002 14:01
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,EVAL
Misc Info : EVAL.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVAL.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
11 4,4'-DDE	7.333	7.333	0.000	2450	0.00172	0.0172
14 Endrin	8.253	8.266	-0.013	406364	0.21120	2.11
15 4,4'-DDD	8.453	8.453	0.000	4124	0.00382	0.0382
17 4,4'-DDT	9.093	9.093	0.000	324655	0.20622	2.06
21 Endrin Ketone	11.973	11.973	0.000	1401	1.e-003	0.00998

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1118.d
Date : 13-DEC-2002 14:01
Client ID: EVAL
Instrument: gc08.i
Sample Info: PSTB051A.M,GC08SL12A0.B,1,EVAL
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000117

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/12/02 12/13/02

Client Sample ID (PEM): EVAL Date Analyzed :12/13/02
Lab Sample ID (PEM): EVAL Time Analyzed :1401

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8SL2118.d	2.37	0.72

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2118.d
Lab Smp Id: EVAL Client Smp ID: EVAL
Inj Date : 13-DEC-2002 14:01
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,EVAL
Misc Info : EVAL.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 16-Dec-2002 07:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVAL.SUB
Target Version: 4.12
Processing Host: TARGET02

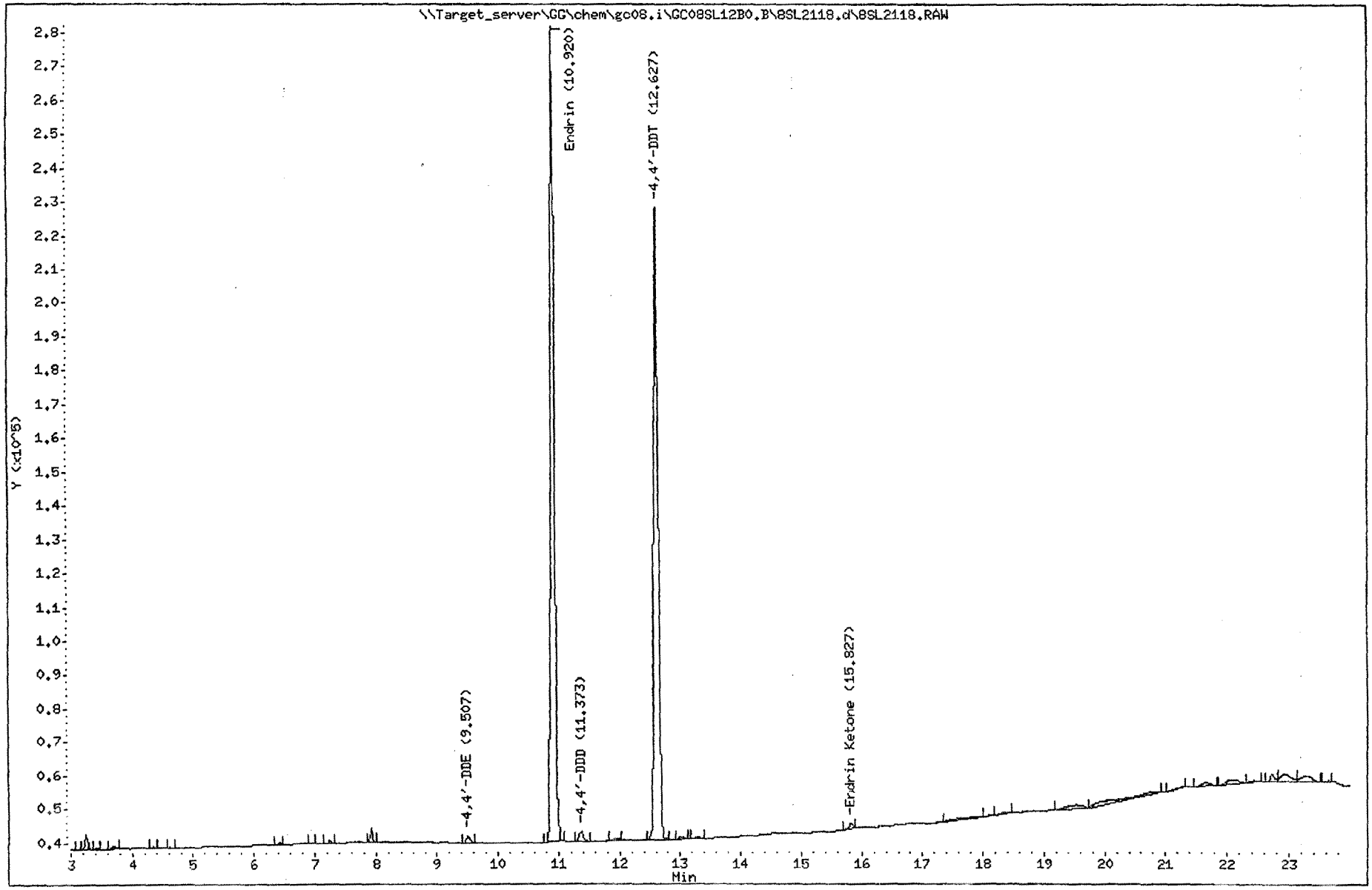
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
11 4,4'-DDE	9.506	9.506	0.000	1895	0.00114	0.0114
14 Endrin	10.920	10.920	0.000	241739	0.20680	2.07
15 4,4'-DDD	11.373	11.373	0.000	2662	0.00339	0.0339
17 4,4'-DDT	12.626	12.626	0.000	187585	0.19328	1.93
21 Endrin Ketone	15.826	15.826	0.000	1767	0.00118	0.0118

12/17

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2118.d
Date : 13-DEC-2002 14:01
Client ID: EVAL
Instrument: gc08.i
Sample Info: PSTB051A.M,GC08SL12A0.B,1,EVAL
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000120

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 1428

Lab File ID: 8SL1119 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.5e-002	5.e-002	3089100.0	0.01	10.00	15.00	2RDR
gamma BHC	5.61e-002	5.e-002	2909500.0	0.01	12.20	15.00	2RDR
Heptachlor	5.59e-002	5.e-002	3039600.0	0.01	11.80	15.00	2RDR
beta-BHC	5.65e-002	5.e-002	1473100.0	0.01	13.00	15.00	2RDR
Aldrin	5.31e-002	5.e-002	2820100.0	0.01	6.20	15.00	2RDR
delta-BHC	5.43e-002	5.e-002	2709600.0	0.01	8.60	15.00	2RDR
Heptachlor Epoxide	5.48e-002	5.e-002	2560200.0	0.01	9.60	15.00	2RDR
Endosulfan I	5.1e-002	5.e-002	2387500.0	0.01	2.00	15.00	2RDR
4,4'-DDE	5.5e-002	5.e-002	2394600.0	0.01	10.00	15.00	2RDR
Dieldrin	5.03e-002	5.e-002	2285300.0	0.01	0.60	15.00	2RDR
Endrin	5.16e-002	5.e-002	2135800.0	0.01	3.20	15.00	2RDR
4,4'-DDD	5.51e-002	5.e-002	1641900.0	0.01	10.20	15.00	2RDR
Endosulfan II	5.55e-002	5.e-002	1890900.0	0.01	11.00	15.00	2RDR
4,4'-DDT	5.17e-002	5.e-002	1656200.0	0.01	3.40	15.00	2RDR
Endrin Aldehyde	5.67e-002	5.e-002	1076100.0	0.01	13.40	15.00	2RDR
Endosulfan sulfate	5.39e-002	5.e-002	1163100.0	0.01	7.80	15.00	2RDR
Methoxychlor	5.37e-002	5.e-002	924000.00	0.01	7.40	15.00	2RDR
alpha-Chlordane	5.19e-002	5.e-002	2558700.0	0.01	3.80	15.00	2RDR
gamma-Chlordane	5.14e-002	5.e-002	2575300.0	0.01	2.80	15.00	2RDR
Endrin Ketone	5.39e-002	5.e-002	1480900.0	0.01	7.80	15.00	2RDR
Tetrachloro-m-Xylene	5.73e-002	5.e-002	2035400.0	0.01	14.60	15.00	2RDR
Decachlorobiphenyl	5.45e-002	5.e-002	1756400.0	0.01	9.00	15.00	2RDR

FORM VII PEST

Katahdin Analytical Services

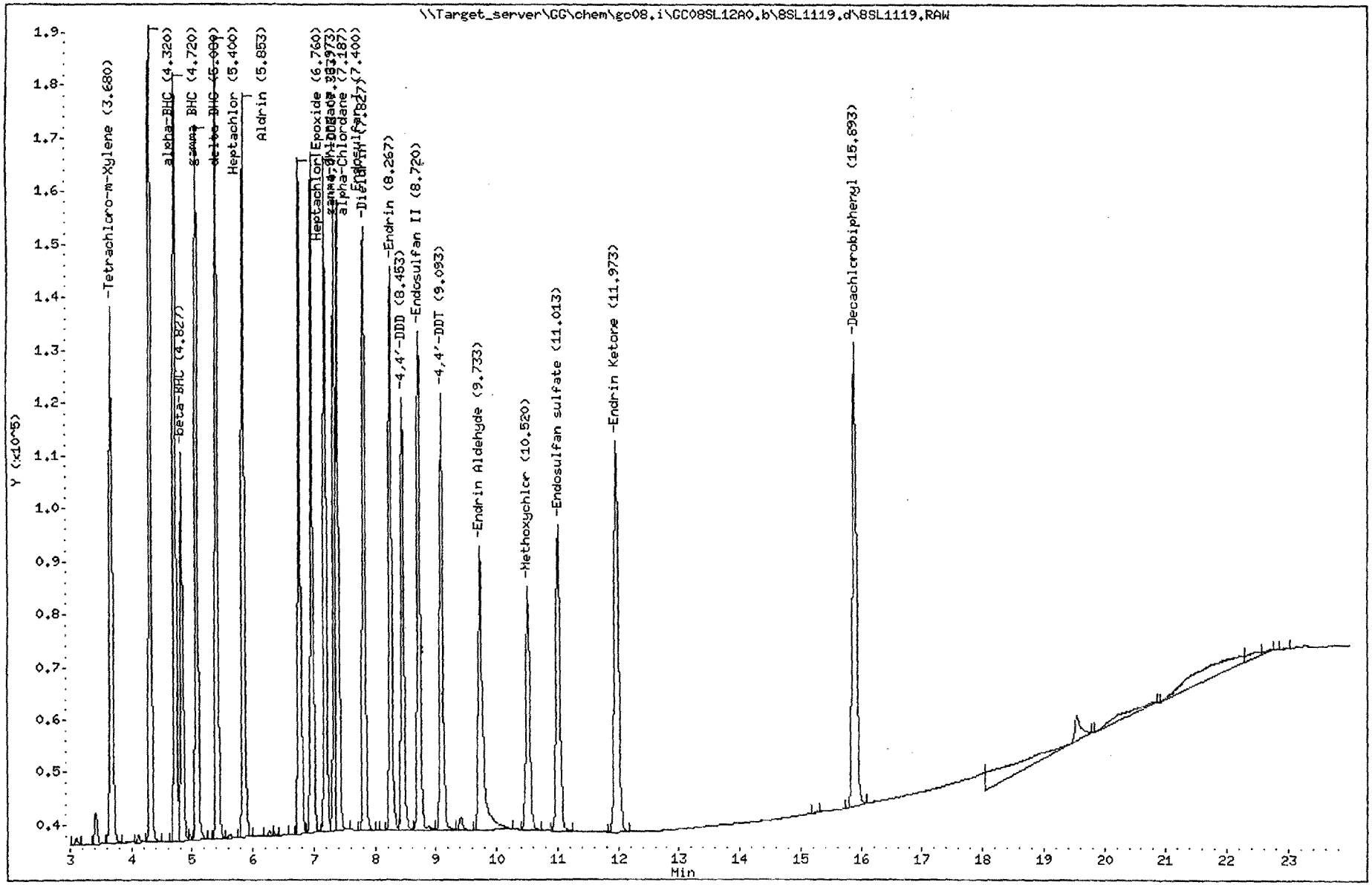
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1119.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: CV
Inj Date : 13-DEC-2002 14:28
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : CV.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CV.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	Tetrachloro-m-Xylene	3.680	3.666	0.014	101768	0.05000	0.0573
2	alpha-BHC	4.320	4.306	0.014	154456	0.05000	0.0550
3	gamma BHC	4.720	4.720	0.000	145473	0.05000	0.0561
4	beta-BHC	4.826	4.826	0.000	73655	0.05000	0.0565
5	delta-BHC	5.080	5.080	0.000	135479	0.05000	0.0543
6	Heptachlor	5.400	5.400	0.000	151979	0.05000	0.0559
7	Aldrin	5.853	5.853	0.000	141004	0.05000	0.0531
8	Heptachlor Epoxide	6.760	6.760	0.000	128011	0.05000	0.0548
9	gamma-Chlordane	6.973	6.973	0.000	128764	0.05000	0.0514
10	alpha-Chlordane	7.186	7.186	0.000	127936	0.05000	0.0519
11	4,4'-DDE	7.333	7.333	0.000	119728	0.05000	0.0550
12	Endosulfan I	7.400	7.386	0.014	119375	0.05000	0.0510
13	Dieldrin	7.826	7.813	0.013	114264	0.05000	0.0503
14	Endrin	8.266	8.266	0.000	106791	0.05000	0.0516
15	4,4'-DDD	8.453	8.453	0.000	82095	0.05000	0.0551
16	Endosulfan II	8.720	8.720	0.000	94547	0.05000	0.0555
17	4,4'-DDT	9.093	9.093	0.000	82811	0.05000	0.0517
18	Endrin Aldehyde	9.733	9.733	0.000	53807	0.05000	0.0567
19	Methoxychlor	10.520	10.520	0.000	46200	0.05000	0.0537
20	Endosulfan sulfate	11.013	11.013	0.000	58156	0.05000	0.0539
21	Endrin Ketone	11.973	11.973	0.000	74046	0.05000	0.0539
$ 22	Decachlorobiphenyl	15.893	15.893	0.000	87821	0.05000	0.0545

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1119.d
Date : 13-DEC-2002 14:28
Client ID: CV
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0,B,1,INDAB 0.05PPM
Purge Volume: 1.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000123

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 1428

Lab File ID: 8SL2119 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.29e-002	5.e-002	3017500.0	0.01	5.80	15.00	2RDR
gamma BHC	5.17e-002	5.e-002	2773900.0	0.01	3.40	15.00	2RDR
Heptachlor	5.5e-002	5.e-002	2330800.0	0.01	10.00	15.00	2RDR
beta-BHC	5.1e-002	5.e-002	1244000.0	0.01	2.00	15.00	2RDR
Aldrin	5.15e-002	5.e-002	2310600.0	0.01	3.00	15.00	2RDR
delta-BHC	5.28e-002	5.e-002	2510600.0	0.01	5.60	15.00	2RDR
Heptachlor Epoxide	5.13e-002	5.e-002	1944500.0	0.01	2.60	15.00	2RDR
Endosulfan I	5.31e-002	5.e-002	1609400.0	0.01	6.20	15.00	2RDR
4,4'-DDE	5.19e-002	5.e-002	1643200.0	0.01	3.80	15.00	2RDR
Dieldrin	5.12e-002	5.e-002	1504200.0	0.01	2.40	15.00	2RDR
Endrin	5.09e-002	5.e-002	1258400.0	0.01	1.80	15.00	2RDR
4,4'-DDD	5.05e-002	5.e-002	972000.00	0.01	1.00	15.00	2RDR
Endosulfan II	5.15e-002	5.e-002	1149500.0	0.01	3.00	15.00	2RDR
4,4'-DDT	5.09e-002	5.e-002	1023800.0	0.01	1.80	15.00	2RDR
Endrin Aldehyde	5.25e-002	5.e-002	885060.00	0.01	5.00	15.00	2RDR
Endosulfan sulfate	5.e-002	5.e-002	1032200.0	0.01	0.00	15.00	2RDR
Methoxychlor	5.03e-002	5.e-002	670860.00	0.01	0.60	15.00	2RDR
alpha-Chlordane	5.2e-002	5.e-002	1680800.0	0.01	4.00	15.00	2RDR
gamma-Chlordane	5.23e-002	5.e-002	1823600.0	0.01	4.60	15.00	2RDR
Endrin Ketone	5.04e-002	5.e-002	1298600.0	0.01	0.80	15.00	2RDR
Tetrachloro-m-Xylene	5.36e-002	5.e-002	1895100.0	0.01	7.20	15.00	2RDR
Decachlorobiphenyl	5.1e-002	5.e-002	1338700.0	0.01	2.00	15.00	2RDR

FORM VII PEST

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2119.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: CV
Inj Date : 13-DEC-2002 14:28
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : CV.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 16-Dec-2002 07:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CV.SUB
Target Version: 4.12
Processing Host: TARGET02

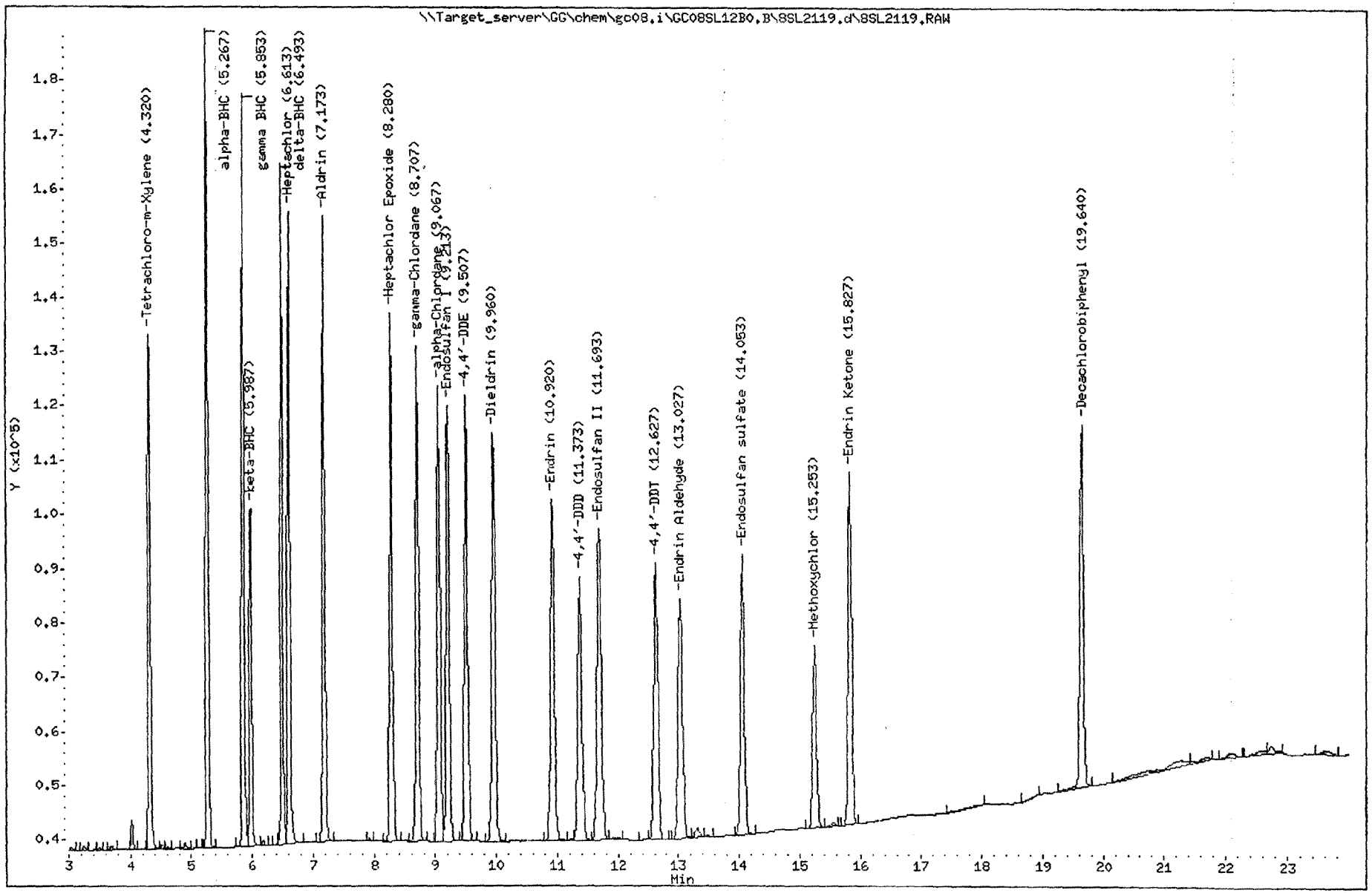
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	Tetrachloro-m-Xylene	4.320	4.320	0.000	94757	0.05000	0.0536
2	alpha-BHC	5.266	5.266	0.000	150877	0.05000	0.0529
3	gamma BHC	5.853	5.853	0.000	138697	0.05000	0.0517
4	beta-BHC	5.986	5.973	0.013	62200	0.05000	0.0510
5	delta-BHC	6.493	6.493	0.000	125528	0.05000	0.0528
6	Heptachlor	6.613	6.613	0.000	116538	0.05000	0.0550
7	Aldrin	7.173	7.173	0.000	115532	0.05000	0.0515
8	Heptachlor Epoxide	8.280	8.280	0.000	97227	0.05000	0.0513
9	gamma-Chlordane	8.706	8.706	0.000	91179	0.05000	0.0523
10	alpha-Chlordane	9.066	9.053	0.013	84041	0.05000	0.0520
12	Endosulfan I	9.213	9.213	0.000	80470	0.05000	0.0531
11	4,4'-DDE	9.506	9.506	0.000	82160	0.05000	0.0519
13	Dieldrin	9.960	9.960	0.000	75208	0.05000	0.0511
14	Endrin	10.920	10.920	0.000	62920	0.05000	0.0508
15	4,4'-DDD	11.373	11.373	0.000	48600	0.05000	0.0505
16	Endosulfan II	11.693	11.693	0.000	57473	0.05000	0.0515
17	4,4'-DDT	12.626	12.626	0.000	51192	0.05000	0.0509
18	Endrin Aldehyde	13.026	13.026	0.000	44253	0.05000	0.0525
20	Endosulfan sulfate	14.053	14.053	0.000	51611	0.05000	0.0500
19	Methoxychlor	15.253	15.240	0.013	33543	0.05000	0.0503
21	Endrin Ketone	15.826	15.826	0.000	64930	0.05000	0.0504
$ 22	Decachlorobiphenyl	19.640	19.640	0.000	66936	0.05000	0.0510

Data File: \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2119.d
Date : 13-DEC-2002 14:28
Client ID: CV
Sample Info: PSTB051A,M,GC08SL12A0,B,1,INDAB 0.05PPM
Purge Volume: 1.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000126

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 1646

Lab File ID: 8SL1122 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.57e-002	5.e-002	3128900.0	0.01	11.40	15.00	2RDR	
gamma BHC	5.74e-002	5.e-002	2977000.0	0.01	14.80	15.00	2RDR	
Heptachlor	5.49e-002	5.e-002	2982800.0	0.01	9.80	15.00	2RDR	
beta-BHC	5.75e-002	5.e-002	1499800.0	0.01	15.00	15.00	2RDR	
Aldrin	5.52e-002	5.e-002	2929500.0	0.01	10.40	15.00	2RDR	
delta-BHC	5.62e-002	5.e-002	2806800.0	0.01	12.40	15.00	2RDR	
Heptachlor Epoxide	5.65e-002	5.e-002	2637000.0	0.01	13.00	15.00	2RDR	
Endosulfan I	5.39e-002	5.e-002	2516500.0	0.01	7.80	15.00	2RDR	
4,4'-DDE	5.34e-002	5.e-002	2325300.0	0.01	6.80	15.00	2RDR	
Dieldrin	5.37e-002	5.e-002	2437200.0	0.01	7.40	15.00	2RDR	
Endrin	5.4e-002	5.e-002	2234400.0	0.01	8.00	15.00	2RDR	
4,4'-DDD	5.46e-002	5.e-002	1628200.0	0.01	9.20	15.00	2RDR	
Endosulfan II	5.61e-002	5.e-002	1913600.0	0.01	12.20	15.00	2RDR	
4,4'-DDT	5.48e-002	5.e-002	1754300.0	0.01	9.60	15.00	2RDR	
Endrin Aldehyde	5.68e-002	5.e-002	1078200.0	0.01	13.60	15.00	2RDR	
Endosulfan sulfate	5.56e-002	5.e-002	1198100.0	0.01	11.20	15.00	2RDR	
Methoxychlor	5.48e-002	5.e-002	942280.00	0.01	9.60	15.00	2RDR	
alpha-Chlordane	5.42e-002	5.e-002	2666300.0	0.01	8.40	15.00	2RDR	
gamma-Chlordane	5.49e-002	5.e-002	2739700.0	0.01	9.80	15.00	2RDR	
Endrin Ketone	5.5e-002	5.e-002	1511400.0	0.01	10.00	15.00	2RDR	
Tetrachloro-m-Xylene	6.05e-002	5.e-002	2140500.0	0.01	21.00	15.00	2RDR	<-
Decachlorobiphenyl	5.47e-002	5.e-002	1761000.0	0.01	9.40	15.00	2RDR	

FORM VII PEST

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1122.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: CV
Inj Date : 13-DEC-2002 16:46
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : CV.SUB
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CV.SUB
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

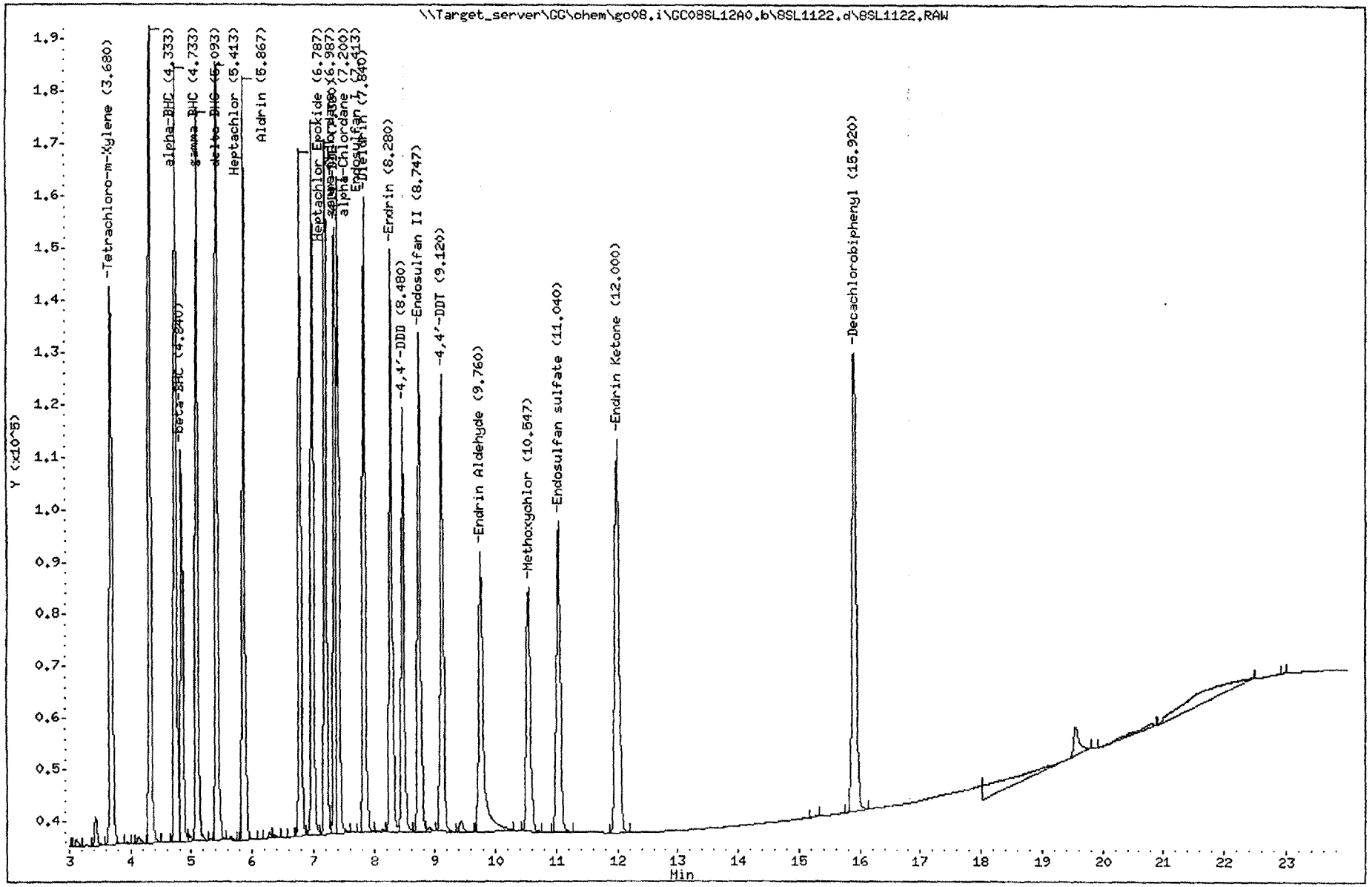
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tetrachloro-m-Xylene	3.680	3.666	0.014	107025	0.05000	0.0604
	2 alpha-BHC	4.333	4.306	0.027	156446	0.05000	0.0557
	3 gamma BHC	4.733	4.720	0.013	148848	0.05000	0.0574
	4 beta-BHC	4.840	4.826	0.014	74990	0.05000	0.0575
	5 delta-BHC	5.093	5.080	0.013	140340	0.05000	0.0562
	6 Heptachlor	5.413	5.400	0.013	149141	0.05000	0.0549
	7 Aldrin	5.866	5.853	0.013	146477	0.05000	0.0552
	8 Heptachlor Epoxide	6.786	6.760	0.026	131850	0.05000	0.0565
	9 gamma-Chlordane	6.986	6.973	0.013	136984	0.05000	0.0549
	10 alpha-Chlordane	7.200	7.186	0.014	133314	0.05000	0.0542
	11 4,4'-DDE	7.360	7.333	0.027	116267	0.05000	0.0534
	12 Endosulfan I	7.413	7.386	0.027	125823	0.05000	0.0539
	13 Dieldrin	7.840	7.813	0.027	121862	0.05000	0.0537
	14 Endrin	8.280	8.266	0.014	111722	0.05000	0.0540
	15 4,4'-DDD	8.480	8.453	0.027	81408	0.05000	0.0546
	16 Endosulfan II	8.746	8.720	0.026	95682	0.05000	0.0561
	17 4,4'-DDT	9.120	9.093	0.027	87715	0.05000	0.0548
	18 Endrin Aldehyde	9.760	9.733	0.027	53910	0.05000	0.0568
	19 Methoxychlor	10.546	10.520	0.026	47114	0.05000	0.0548
	20 Endosulfan sulfate	11.040	11.013	0.027	59905	0.05000	0.0556
	21 Endrin Ketone	12.000	11.973	0.027	75570	0.05000	0.0550
$	22 Decachlorobiphenyl	15.920	15.893	0.027	88051	0.05000	0.0546

LRS 12/17

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1122.d
Date : 13-DEC-2002 16:46
Client ID: CV
Sample Info: PSTA051A,M,GC08SL12A0.B,1,INDAB 0.05PPM
Purge Volume: 1.0
Column phase: RTX-CLPI

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000129

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4555

Instrument ID: GC08 Calibration Date: 12/13/02 Time: 1646

Lab File ID: 8SL2122 Init. Calib. Date(s): 12/12/02 12/13/02

Init. Calib. Times: 2220 0035

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	5.28e-002	5.e-002	3016700.0	0.01	5.60	15.00	2RDR
gamma BHC	5.39e-002	5.e-002	2890400.0	0.01	7.80	15.00	2RDR
Heptachlor	5.16e-002	5.e-002	2193500.0	0.01	3.20	15.00	2RDR
beta-BHC	5.53e-002	5.e-002	1344000.0	0.01	10.60	15.00	2RDR
Aldrin	5.25e-002	5.e-002	2351100.0	0.01	5.00	15.00	2RDR
delta-BHC	5.29e-002	5.e-002	2514900.0	0.01	5.80	15.00	2RDR
Heptachlor Epoxide	5.17e-002	5.e-002	1958000.0	0.01	3.40	15.00	2RDR
Endosulfan I	5.21e-002	5.e-002	1581200.0	0.01	4.20	15.00	2RDR
4,4'-DDE	5.2e-002	5.e-002	1648500.0	0.01	4.00	15.00	2RDR
Dieldrin	5.18e-002	5.e-002	1522000.0	0.01	3.60	15.00	2RDR
Endrin	5.16e-002	5.e-002	1277400.0	0.01	3.20	15.00	2RDR
4,4'-DDD	5.13e-002	5.e-002	987620.00	0.01	2.60	15.00	2RDR
Endosulfan II	5.19e-002	5.e-002	1159300.0	0.01	3.80	15.00	2RDR
4,4'-DDT	5.17e-002	5.e-002	1039900.0	0.01	3.40	15.00	2RDR
Endrin Aldehyde	5.37e-002	5.e-002	904260.00	0.01	7.40	15.00	2RDR
Endosulfan sulfate	5.11e-002	5.e-002	1053800.0	0.01	2.20	15.00	2RDR
Methoxychlor	5.12e-002	5.e-002	682440.00	0.01	2.40	15.00	2RDR
alpha-Chlordane	5.24e-002	5.e-002	1693800.0	0.01	4.80	15.00	2RDR
gamma-Chlordane	5.17e-002	5.e-002	1804800.0	0.01	3.40	15.00	2RDR
Endrin Ketone	5.17e-002	5.e-002	1331800.0	0.01	3.40	15.00	2RDR
Tetrachloro-m-Xylene	5.73e-002	5.e-002	2021700.0	0.01	14.60	15.00	2RDR
Decachlorobiphenyl	5.23e-002	5.e-002	1369500.0	0.01	4.60	15.00	2RDR

FORM VII PEST

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2122.d
Lab Smp Id: INDAB 0.05PPM Client Smp ID: CV
Inj Date : 13-DEC-2002 16:46
Operator : LRS Inst ID: gc08.i
Smp Info : PSTB051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Misc Info : CV.SUB
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 16-Dec-2002 07:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CV.SUB
Target Version: 4.12
Processing Host: TARGET02

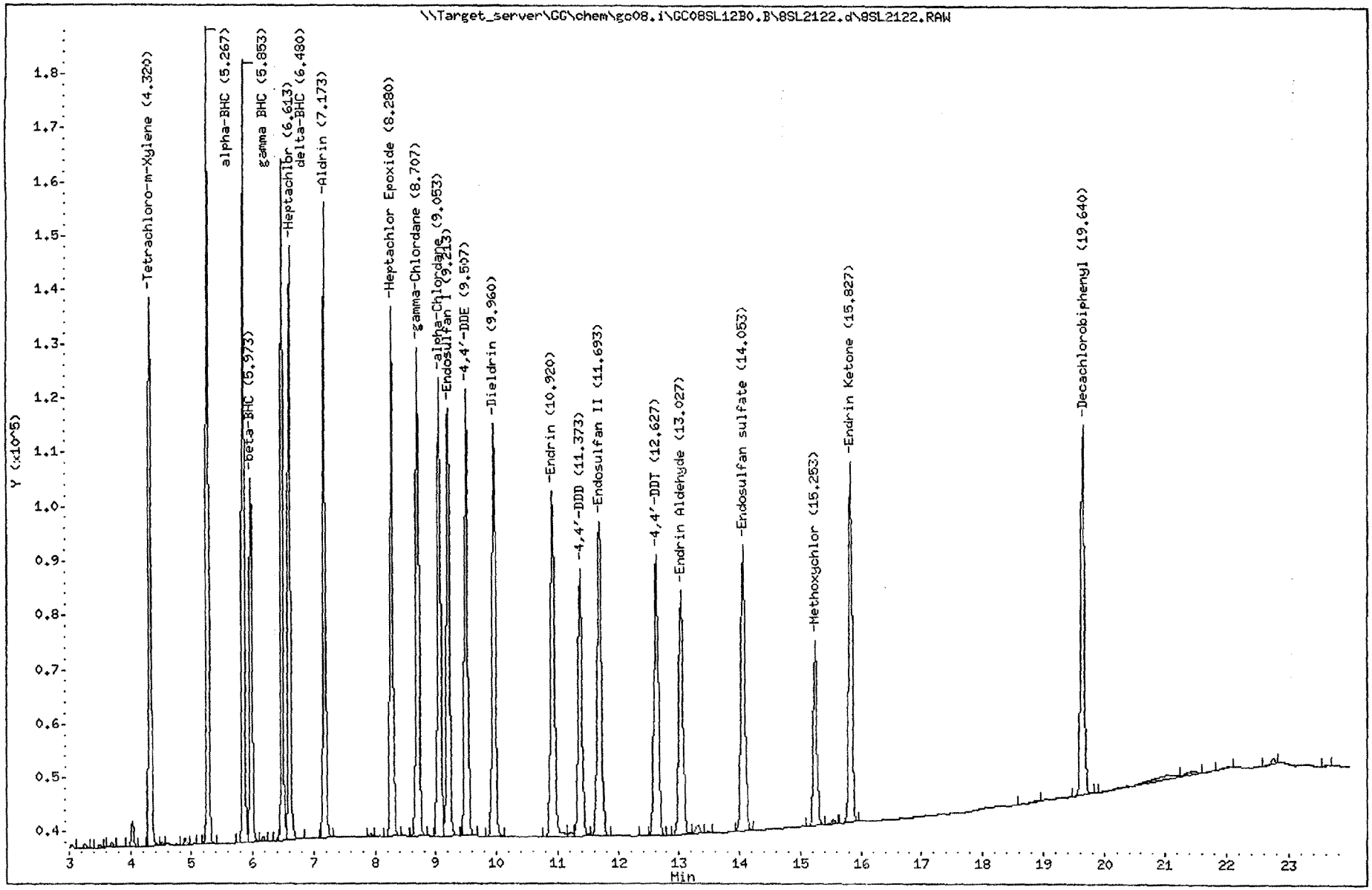
Concentration Formula: Amt * DF * 1000* (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	FinalVolume (L)
Vo	1.000	SampleVolume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tetrachloro-m-Xylene	4.320	4.320	0.000	101083	0.05000	0.0573
	2 alpha-BHC	5.266	5.266	0.000	150837	0.05000	0.0528
	3 gamma BHC	5.853	5.853	0.000	144520	0.05000	0.0539
	4 beta-BHC	5.973	5.973	0.000	67200	0.05000	0.0552
	5 delta-BHC	6.480	6.493	-0.013	125743	0.05000	0.0529
	6 Heptachlor	6.613	6.613	0.000	109675	0.05000	0.0516
	7 Aldrin	7.173	7.173	0.000	117555	0.05000	0.0525
	8 Heptachlor Epoxide	8.280	8.280	0.000	97902	0.05000	0.0517
	9 gamma-Chlordane	8.706	8.706	0.000	90238	0.05000	0.0517
	10 alpha-Chlordane	9.053	9.053	0.000	84689	0.05000	0.0524
	12 Endosulfan I	9.213	9.213	0.000	79061	0.05000	0.0521
	11 4,4'-DDE	9.506	9.506	0.000	82426	0.05000	0.0520
	13 Dieldrin	9.960	9.960	0.000	76099	0.05000	0.0518
	14 Endrin	10.920	10.920	0.000	63871	0.05000	0.0516
	15 4,4'-DDD	11.373	11.373	0.000	49381	0.05000	0.0513
	16 Endosulfan II	11.693	11.693	0.000	57963	0.05000	0.0519
	17 4,4'-DDT	12.626	12.626	0.000	51996	0.05000	0.0517
	18 Endrin Aldehyde	13.026	13.026	0.000	45213	0.05000	0.0537
	20 Endosulfan sulfate	14.053	14.053	0.000	52691	0.05000	0.0511
	19 Methoxychlor	15.253	15.240	0.013	34122	0.05000	0.0512
	21 Endrin Ketone	15.826	15.826	0.000	66588	0.05000	0.0517
$	22 Decachlorobiphenyl	19.640	19.640	0.000	68476	0.05000	0.0523

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2122.d
Date : 13-DEC-2002 16:46
Client ID: CV
Sample Info: PSTB051A.M,GC08SL12A0.B,1,INDAB 0.05PPM
Purge Volume: 1.0
Column phase: RTX-CLPII

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000132

Raw QC Data Section

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/12/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL
% Solids: 100

Lab ID: WG1299-1
Client ID: WG1299-Blank
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.7	1.0	1.7	1.7	0.68
58-89-9	gamma BHC	U	1.7	1.0	1.7	1.7	0.59
76-44-8	Heptachlor	U	1.7	1.0	1.7	1.7	0.55
319-85-7	beta-BHC	U	1.7	1.0	1.7	1.7	1.0
309-00-2	Aldrin	U	1.7	1.0	1.7	1.7	0.56
319-86-8	delta-BHC	U	1.7	1.0	1.7	1.7	0.58
1024-57-3	Heptachlor Epoxide	U	1.7	1.0	1.7	1.7	0.65
959-98-8	Endosulfan I	U	1.7	1.0	1.7	1.7	0.61
72-55-9	4,4'-DDE	U	3.3	1.0	3.3	3.3	0.62
60-57-1	Dieldrin	U	3.3	1.0	3.3	3.3	0.60
72-20-8	Endrin	U	3.3	1.0	3.3	3.3	0.57
72-54-8	4,4'-DDD	U	3.3	1.0	3.3	3.3	0.62
33213-65-9	Endosulfan II	U	3.3	1.0	3.3	3.3	0.57
50-29-3	4,4'-DDT	U	3.3	1.0	3.3	3.3	0.55
7421-36-3	Endrin Aldehyde	U	3.3	1.0	3.3	3.3	0.67
1031-07-8	Endosulfan sulfate	U	3.3	1.0	3.3	3.3	0.69
72-43-5	Methoxychlor	U	17	1.0	17	17	1.0
8001-35-2	Toxaphene	U	33	1.0	33	33	12
5103-71-9	alpha-Chlordane	U	1.7	1.0	1.7	1.7	0.69
5103-74-2	gamma-Chlordane	U	1.7	1.0	1.7	1.7	0.63
53494-70-5	Endrin Ketone	U	3.3	1.0	3.3	3.3	0.73
877-09-8	Tetrachloro-m-Xylene		86%				
2051-24-3	Decachlorobiphenyl		102%				

Katahdin Analytical Services

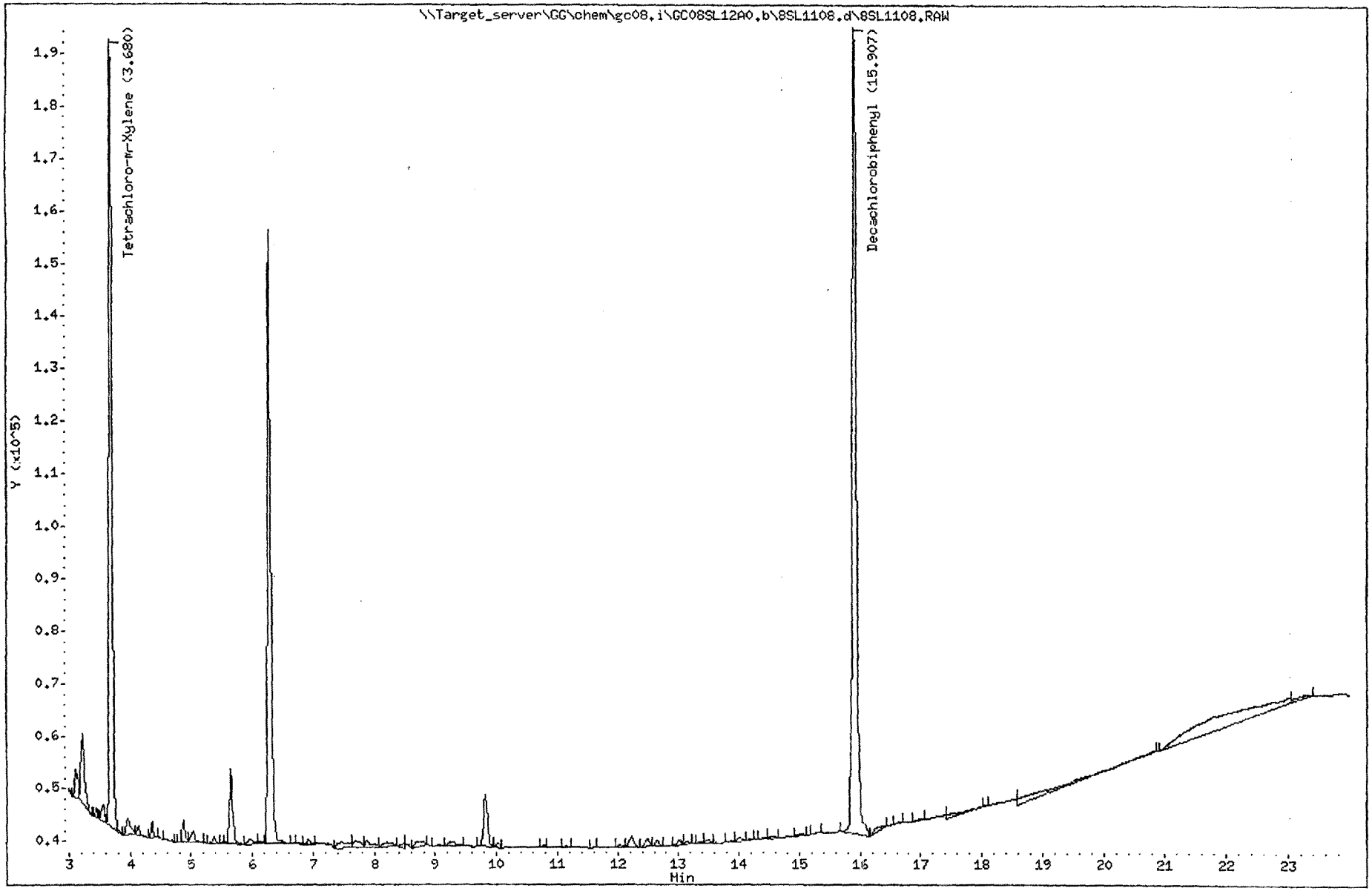
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1108.d
Lab Smp Id: WG1299-1 Client Smp ID: WG1299-Blank
Inj Date : 13-DEC-2002 09:30
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WG1299-1
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	149628	0.08610	28.7
$ 22 Decachlorobiphenyl	15.906	15.893	0.013	153781	0.10183	33.9

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1108.d
Date : 13-DEC-2002 09:30
Client ID: WG1299-Blank
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0.B,1,WG1299-1
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPI
Column diameter: 0.53



Katahdin Analytical Services 3000136

Katahdin Analytical Services

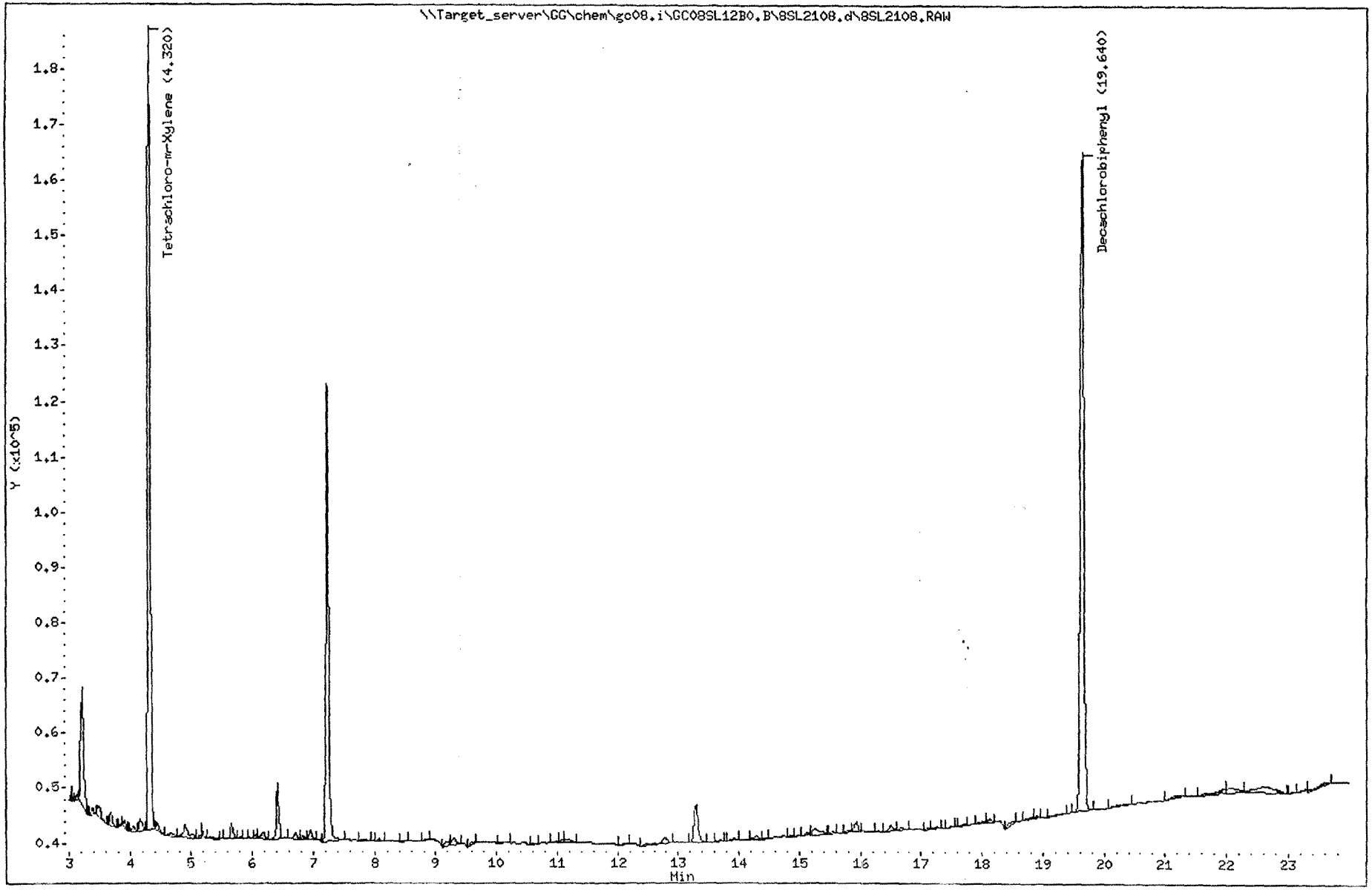
Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2108.d
Lab Smp Id: WG1299-1 Client Smp ID: WG1299-Blank
Inj Date : 13-DEC-2002 09:30
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WG1299-1
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 16-Dec-2002 07:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/Kg)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	145236	0.08406	28.0
$ 22 Decachlorobiphenyl	19.640	19.640	0.000	119313	0.09703	32.3

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2108.d
Date : 13-DEC-2002 09:30
Client ID: WG1299-Blank
Instrument: gc08.i
Sample Info: PSTA051A.M,GC08SL12A0.B,1,WG1299-1
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000138

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966
Sample Date: 12/12/02
Received Date: 12/12/02
Extraction Date: 12/12/02
Analysis Date: 12/13/02
Report Date: 12/17/2002
Matrix: SOIL

Lab ID: WG1299-2 & WG1299-3
Client ID: WG1299-LCS & WG1299-LCSD
SDG: WS4555
Extracted by: RH
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG1299
Units: ug/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
alpha-BHC	17	17	NA	16	17	94	*	104		10	50	59-101
gamma BHC	17	17	NA	16	18	99	*	108		9	50	63-101
Heptachlor	17	17	NA	17	18	100	*	109		8	50	62-106
beta-BHC	17	17	NA	19	20	* 112	*	118		5	50	70-106
Aldrin	17	17	NA	16	17	97	*	104		6	50	63-100
delta-BHC	17	17	NA	19	20	112		119		6	50	63-124
Heptachlor Epoxide	17	17	NA	18	19	* 107	*	114		6	50	72-102
Endosulfan I	17	17	NA	16	17	* 98	*	100		2	50	70- 93
4,4'-DDE	17	17	NA	17	18	103	*	109		5	50	69-108
Dieldrin	17	17	NA	17	18	103	*	109		5	50	71-104
Endrin	17	17	NA	18	19	110	*	113		3	50	69-110
4,4'-DDD	17	17	NA	18	19	110		116		5	50	61-130
Endosulfan II	17	17	NA	18	20	* 110	*	117		6	50	67-108
4,4'-DDT	17	17	NA	18	19	107		112		4	50	62-126
Endrin Aldehyde	17	17	NA	18	19	108		115		6	50	45-124
Endosulfan sulfate	17	17	NA	19	20	114		120		5	50	51-137
Methoxychlor	17	17	NA	18	19	111		115		4	50	53-180
alpha-Chlordane	17	17	NA	17	18	103	*	107		4	50	72-105
gamma-Chlordane	17	17	NA	17	18	* 103	*	107		4	50	72-102
Endrin Ketone	17	17	NA	19	20	113		119		5	50	66-140

Katahdin Analytical Services 3000139

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1109.d
Lab Smp Id: WG1299-2 Client Smp ID: WG1299-LCS
Inj Date : 13-DEC-2002 09:57
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WG1299-2
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	143812	0.08255	27.5
2 alpha-BHC	4.320	4.306	0.014	132472	0.04714	15.7
3 gamma BHC	4.720	4.720	0.000	128600	0.04956	16.5
4 beta-BHC	4.826	4.826	0.000	72666	0.05570	18.6(R)
5 delta-BHC	5.080	5.080	0.000	139096	0.05570	18.6
6 Heptachlor	5.400	5.400	0.000	136546	0.05017	16.7
7 Aldrin	5.853	5.853	0.000	129343	0.04864	16.2
8 Heptachlor Epoxide	6.760	6.760	0.000	124919	0.05346	17.8(R)
9 gamma-Chlordane	6.973	6.973	0.000	127652	0.05096	17.0
10 alpha-Chlordane	7.186	7.186	0.000	126308	0.05123	17.1
11 4,4'-DDE	7.333	7.333	0.000	112370	0.05164	17.2
12 Endosulfan I	7.400	7.386	0.014	113843	0.04855	16.2(R)
13 Dieldrin	7.826	7.813	0.013	117488	0.05178	17.2
14 Endrin	8.266	8.266	0.000	113262	0.05481	18.3
15 4,4'-DDD	8.453	8.453	0.000	82300	0.05523	18.4
16 Endosulfan II	8.720	8.720	0.000	93974	0.05512	18.4(R)
17 4,4'-DDT	9.106	9.093	0.013	85914	0.05366	17.9
18 Endrin Aldehyde	9.733	9.733	0.000	51126	0.05386	18.0
19 Methoxychlor	10.520	10.520	0.000	47800	0.05562	18.5
20 Endosulfan sulfate	11.013	11.013	0.000	61541	0.05706	19.0
21 Endrin Ketone	11.986	11.973	0.013	77311	0.05630	18.8

lws 12/17

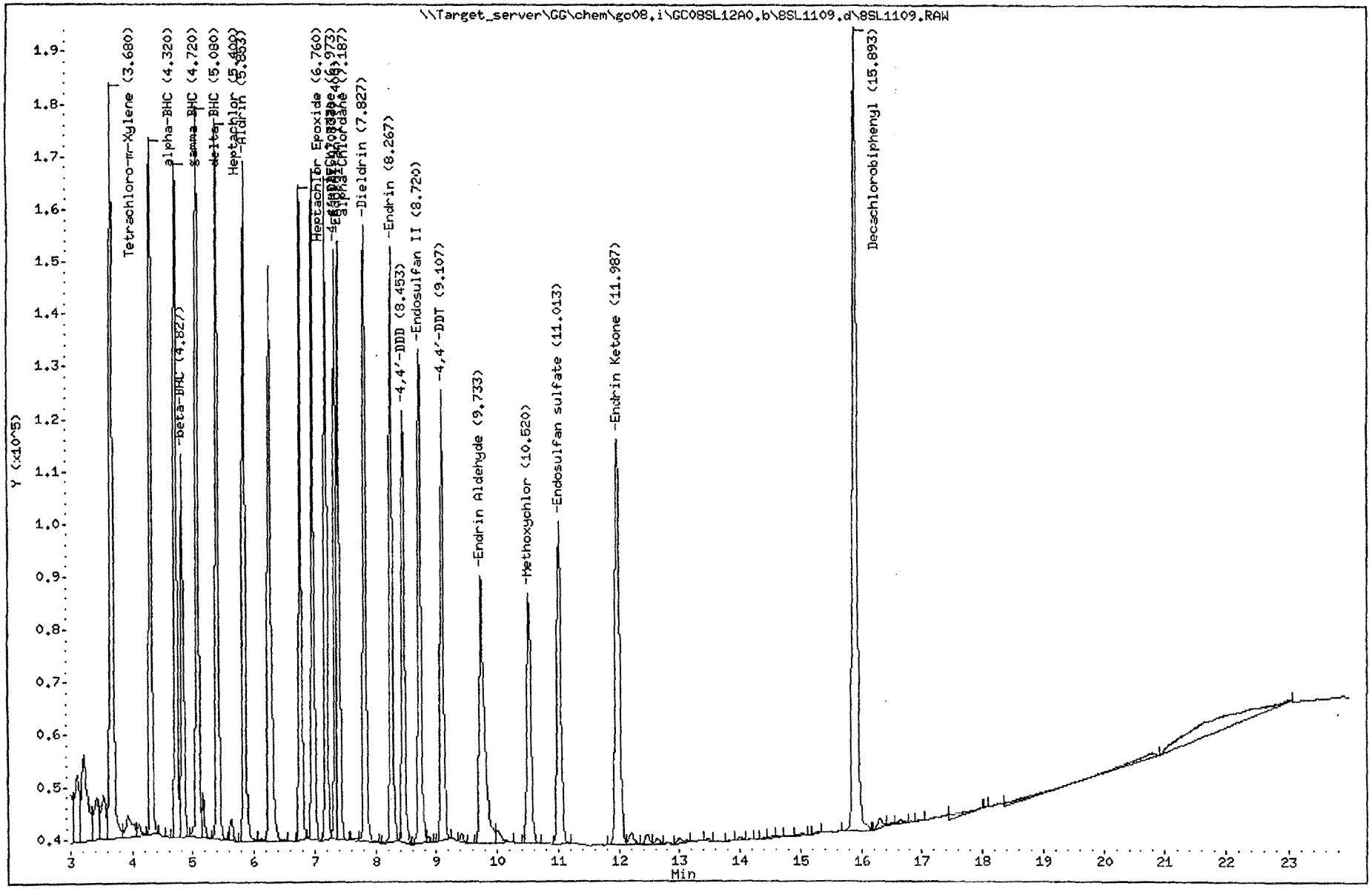
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 22 Decachlorobiphenyl	15.893	15.893	0.000	153371	0.10152	33.8

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1109.d
Date : 13-DEC-2002 09:57
Client ID: WG1299-LCS
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WG1299-2
Purge Volume: 0.0
Column phase: RTX-CLPI

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000142

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2109.d
Lab Smp Id: WG1299-2 Client Smp ID: WG1299-LCS
Inj Date : 13-DEC-2002 09:57
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WG1299-2
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 16-Dec-2002 07:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	142445	0.08234	27.4
2 alpha-BHC	5.266	5.266	0.000	133079	0.04650	15.5
3 gamma BHC	5.853	5.853	0.000	128356	0.04773	15.9
4 beta-BHC	5.973	5.973	0.000	65971	0.05421	18.1(R)
5 delta-BHC	6.493	6.493	0.000	128240	0.05396	18.0
6 Heptachlor	6.613	6.613	0.000	96244	0.04493	15.0
7 Aldrin	7.173	7.173	0.000	107017	0.04766	15.9
8 Heptachlor Epoxide	8.280	8.280	0.000	96858	0.05111	17.0(R)
9 gamma-Chlordane	8.706	8.706	0.000	89773	0.05142	17.1(R)
10 alpha-Chlordane	9.053	9.053	0.000	81305	0.05020	16.7
12 Endosulfan I	9.213	9.213	0.000	74448	0.04893	16.3(R)
11 4,4'-DDE	9.506	9.506	0.000	77358	0.04872	16.2
13 Dieldrin	9.960	9.960	0.000	75423	0.05130	17.1
14 Endrin	10.920	10.920	0.000	65421	0.05291	17.6
15 4,4'-DDD	11.373	11.373	0.000	48858	0.05080	16.9
16 Endosulfan II	11.693	11.693	0.000	57886	0.05188	17.3
17 4,4'-DDT	12.626	12.626	0.000	52855	0.05253	17.5
18 Endrin Aldehyde	13.026	13.026	0.000	42532	0.05037	16.8
20 Endosulfan sulfate	14.053	14.053	0.000	56214	0.05461	18.2
19 Methoxychlor	15.240	15.240	0.000	36140	0.05442	18.1
21 Endrin Ketone	15.826	15.826	0.000	70307	0.05471	18.2

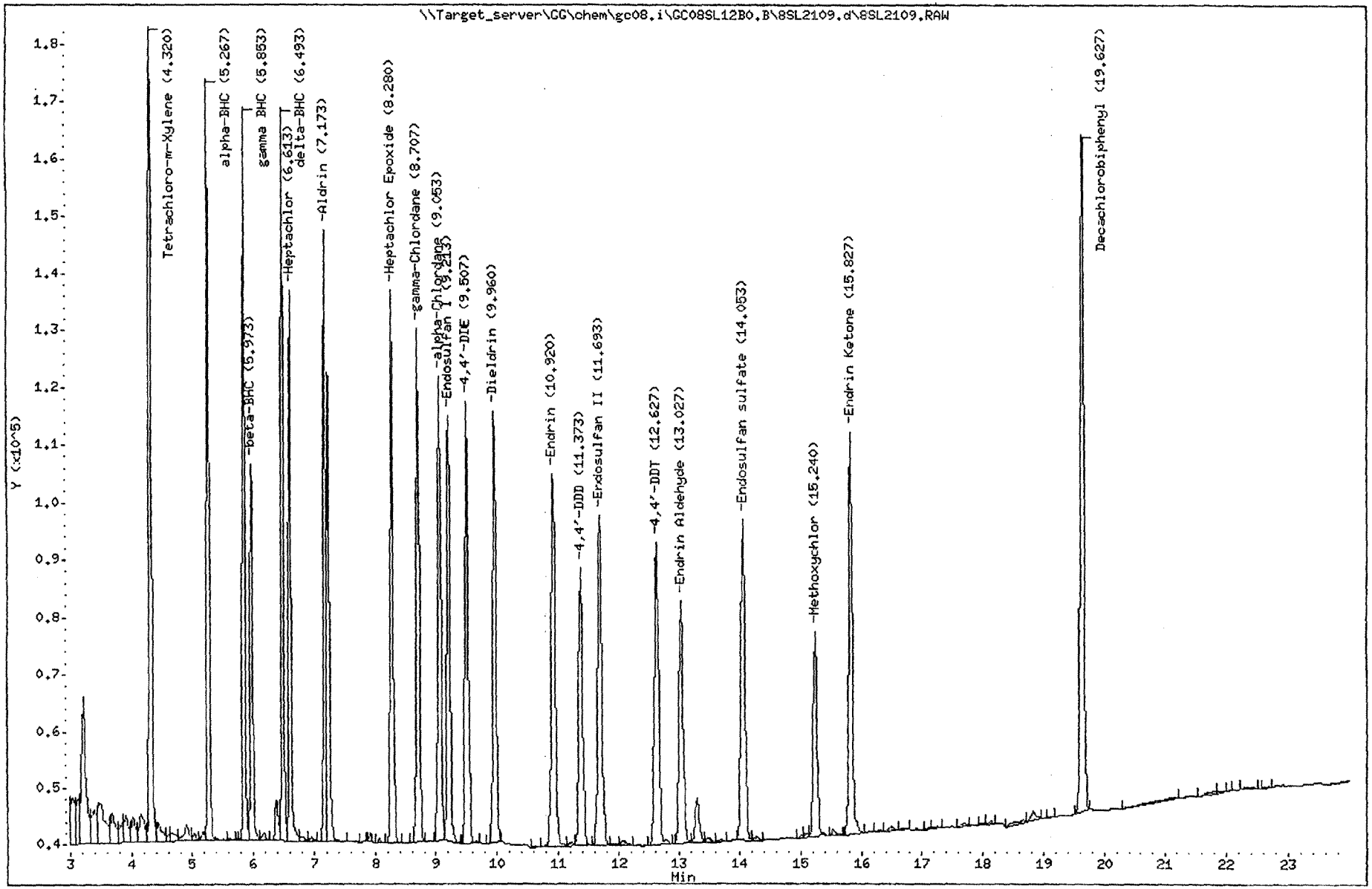
LRS 12/17

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 22 Decachlorobiphenyl	19.626	19.640	-0.014	118544	0.09632	32.1

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2109.d
Date : 13-DEC-2002 09:57
Client ID: WG1299-LCS
Instrument: gc08.i
Sample Info: PSTA051A,M,GC08SL12A0.B,1,WG1299-2
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000145

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12A0.b\8SL1110.d
Lab Smp Id: WG1299-3 Client Smp ID: WG1299-LCSD
Inj Date : 13-DEC-2002 10:24
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WG1299-3
Misc Info : SW846 8081A
Comment :
Method : \\TARGET_SERVER\GG\chem\gc08.i\GC08SL12A0.B\PSTA051A.m
Meth Date : 16-Dec-2002 07:27 lschwieter Quant Type: ESTD
Cal Date : 13-DEC-2002 00:35 Cal File: 8SL1101.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	3.680	3.666	0.014	156304	0.09018	30.0
2 alpha-BHC	4.320	4.306	0.014	146128	0.05203	17.3(R)
3 gamma BHC	4.720	4.720	0.000	140310	0.05408	18.0(R)
4 beta-BHC	4.826	4.826	0.000	76780	0.05897	19.6(R)
5 delta-BHC	5.080	5.080	0.000	148451	0.05943	19.8
6 Heptachlor	5.400	5.400	0.000	147416	0.05423	18.1(R)
7 Aldrin	5.853	5.853	0.000	138161	0.05202	17.3(R)
8 Heptachlor Epoxide	6.760	6.760	0.000	132675	0.05687	19.0(R)
9 gamma-Chlordane	6.973	6.973	0.000	131888	0.05275	17.6(R)
10 alpha-Chlordane	7.186	7.186	0.000	130256	0.05293	17.6(R)
11 4,4'-DDE	7.333	7.333	0.000	118409	0.05440	18.1(R)
12 Endosulfan I	7.400	7.386	0.014	117283	0.05009	16.7(R)
13 Dieldrin	7.826	7.813	0.013	120185	0.05299	17.7(R)
14 Endrin	8.266	8.266	0.000	115386	0.05585	18.6(R)
15 4,4'-DDD	8.453	8.453	0.000	86903	0.05824	19.4
16 Endosulfan II	8.720	8.720	0.000	99617	0.05848	19.5(R)
17 4,4'-DDT	9.093	9.093	0.000	89813	0.05609	18.7
18 Endrin Aldehyde	9.733	9.733	0.000	54440	0.05741	19.1
19 Methoxychlor	10.520	10.520	0.000	49474	0.05765	19.2
20 Endosulfan sulfate	11.013	11.013	0.000	64882	0.06014	20.0
21 Endrin Ketone	11.973	11.973	0.000	81407	0.05935	19.8

lgs 12/17

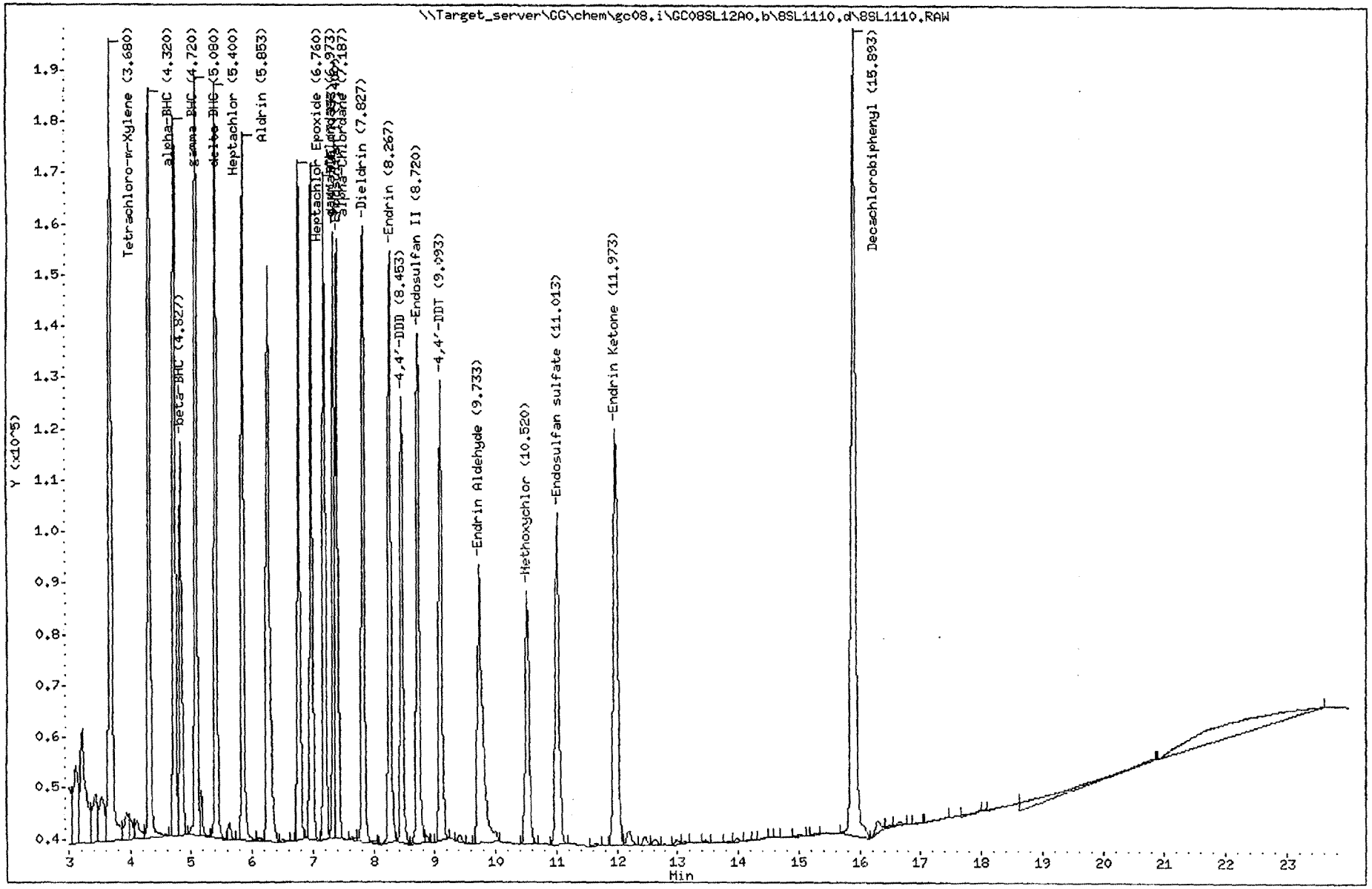
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 22 Decachlorobiphenyl	15.893	15.893	0.000	157788	0.10483	34.9

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12A0.b\8SL1110.d
Date : 13-DEC-2002 10:24
Client ID: WG1299-LCSD
Sample Info: PSTA051A,M,GC08SL12A0,B,1,WG1299-3
Purge Volume: 0.0
Column phase: RTX-CLPI

Instrument: gc08.i
Operator: LRS
Column diameter: 0.53



Katahdin Analytical Services 3000148

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\8SL2110.d
Lab Smp Id: WG1299-3 Client Smp ID: WG1299-LCSD
Inj Date : 13-DEC-2002 10:24
Operator : LRS Inst ID: gc08.i
Smp Info : PSTA051A.M,GC08SL12A0.B,1,WG1299-3
Misc Info : SW846 8081A
Comment :
Method : \\Target_server\GG\chem\gc08.i\GC08SL12B0.B\PSTB051A.m
Meth Date : 16-Dec-2002 07:28 lschwieter Quant Type: ESTD
Cal Date : 12-DEC-2002 22:20 Cal File: 8SL2096.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8081.sub
Target Version: 4.12
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000* Vt * (1/Vo) * (100/(100-M)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

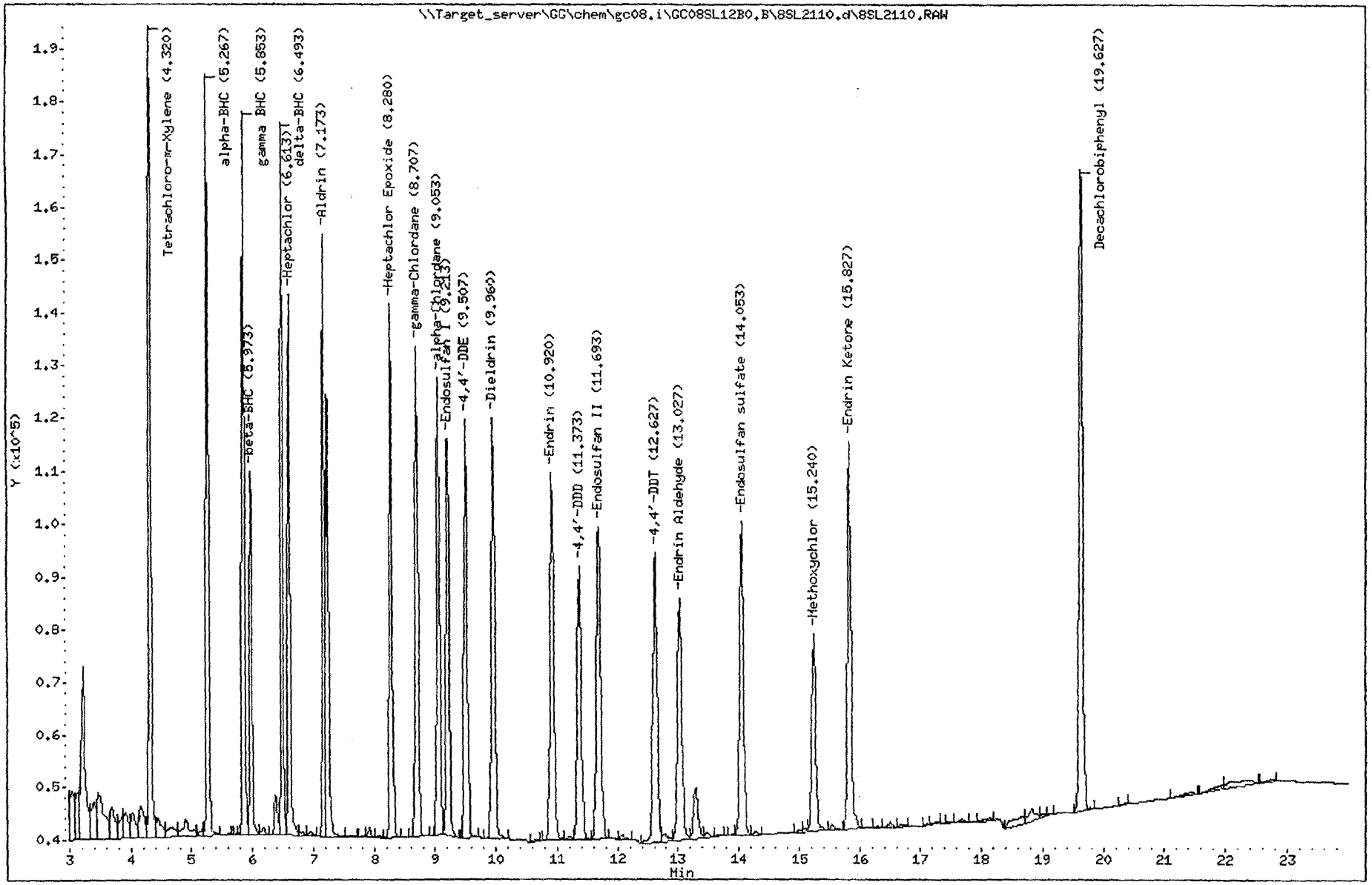
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-Xylene	4.320	4.320	0.000	153921	0.08942	29.8
2 alpha-BHC	5.266	5.266	0.000	144485	0.05057	16.8(R)
3 gamma BHC	5.853	5.853	0.000	137479	0.05120	17.1(R)
4 beta-BHC	5.973	5.973	0.000	69192	0.05695	19.0(R)
5 delta-BHC	6.493	6.493	0.000	135336	0.05697	19.0
6 Heptachlor	6.613	6.613	0.000	102873	0.04820	16.1
7 Aldrin	7.173	7.173	0.000	114620	0.05113	17.0(R)
8 Heptachlor Epoxide	8.280	8.280	0.000	101599	0.05375	17.9(R)
9 gamma-Chlordane	8.706	8.706	0.000	93099	0.05342	17.8(R)
10 alpha-Chlordane	9.053	9.053	0.000	86917	0.05379	17.9(R)
12 Endosulfan I	9.213	9.213	0.000	75729	0.04981	16.6(R)
11 4,4'-DDE	9.506	9.506	0.000	79797	0.05032	16.8
13 Dieldrin	9.960	9.960	0.000	79950	0.05442	18.1(R)
14 Endrin	10.920	10.920	0.000	69978	0.05667	18.9(R)
15 4,4'-DDD	11.373	11.373	0.000	51981	0.05402	18.0
16 Endosulfan II	11.693	11.693	0.000	59620	0.05349	17.8
17 4,4'-DDT	12.626	12.626	0.000	55164	0.05486	18.3
18 Endrin Aldehyde	13.026	13.026	0.000	46180	0.05485	18.3
20 Endosulfan sulfate	14.053	14.053	0.000	59817	0.05823	19.4
19 Methoxychlor	15.240	15.240	0.000	37800	0.05707	19.0
21 Endrin Ketone	15.826	15.826	0.000	73668	0.05742	19.1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$ 22 Decachlorobiphenyl	19.626	19.640	-0.014	121807	0.09932	33.1

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GC\chem\gc08.i\GC08SL12B0.B\8SL2110.d
Date : 13-DEC-2002 10:24
Client ID: WG1299-LCSD
Instrument: gc08.i
Sample Info: PSTA051A.M,GC08SL12A0.B,1,WG1299-3
Purge Volume: 0.0
Operator: LRS
Column phase: RTX-CLPII
Column diameter: 0.53



Katahdin Analytical Services 3000151

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES, INC.
GC Instrument Run Log

Amount Injected: 2ul
Reviewed By/Date: PL 12/17/02
INSTRUMENT: GC08

LOGBOOK #
PAGE #
CIRCLE:
CLP/HERB/~~E-P~~

DATE	INIT	RESULT FILE	SAMPLE	MI	Y/N	METHOD	COLUMN	SEQUENCE
12/2/02	PL/RLS	8SL12 088	IND/ABO .05ppm P2282	N	N	PSTA/BOSDA	214/220	
		089						
		090						
		091						
		092						
		093						
		094						
		095	EVal P2255	N	Y	PSTA/BOSDA		
		096	IND/ABO.05ppm P2282					
		097	0.005 P2279	Y				
		098	0.01 P2280	N				
		099	0.025 P2281					
12/3/02		100	0.1 P2283					
		101	0.25 P2284					
		102	IND/ABO.05ppm IND P2274	Y				
		103	Toxaphene 1ppm P2276					
		104	Tech Chlordane 0.5ppm P2257	N				
12/3/02	RLS	105	Hexane	—	—			prime
		106	EVal P2255	N	Y			
		107	IND/ABO.05ppm P2282					
		108	WX-1295-1 3550					
		109	-2					
		110	-3					
		111	WS4555-1					
		112	-2	Y				overeal
		113	-3	N				
		114	-4					
		115	-5					
		116	-6					
		117	-7					

KATAHDIN ANALYTICAL SERVICES, INC.
GC Instrument Run Log

Amount Injected: 2ul
Reviewed By/Date: PL 12/17/02
INSTRUMENT: GC08

LOGBOOK #
PAGE #
CIRCLE:
CLP/HERB/P-P

DATE	INIT	RESULT FILE	SAMPLE	MI	Y/N	METHOD	COLUMN	SEQUENCE
12/13/02	SH	8SV2118	Eval P2255	N	Y	PSTABOSTA	219/220	
↓	↓	↓ 119	INDAB005ppm P2282	|	↓	↓	↓	
|	PJ/FFS	120	WS4555-2 1:100 3550	|	N	|	|	DDT overcal
|	|	121	WS4555-2 1:1000 ↓	|	Y	|	|	
↓	↓	↓ 122	INDAB P2282	↓	↓	↓	↓	A TCX high
12/16/02	SH	123	INDAB005ppm P2282	—	—	|	|	
|	|	124	|	|	|	|	|	
|	|	125	|	|	|	|	|	
|	|	126	|	|	|	|	|	
|	|	127	|	|	|	|	|	
|	|	128	|	|	|	|	|	
|	|	129	|	|	|	|	|	
|	|	130	|	|	|	|	|	
|	|	131	|	|	|	|	|	
|	|	132	|	|	|	|	|	
|	|	133	↓	↓	↓	↓	|	
|	|	134	Eval P2255	N	Y	PSTABOSTA	|	
|	|	135	INDAB 0.005ppm P2282	|	|	|	|	
|	|	136	0.005 P2279	|	|	|	|	
|	|	137	0.01 P2280	|	|	|	|	
|	|	138	0.025 P2281	|	|	|	|	
|	|	139	0.1 P2283	|	|	|	|	
|	|	140	↓ 0.25 P2284	|	|	|	|	
|	|	141	INDAB 0.05ppm IND P2274	|	|	|	|	
|	|	142	Toxaphene 1.0ppm P2276	|	|	|	|	
|	|	143	Chlordane 0.5ppm P2281	|	|	|	|	
|	|	144	WS4261-S 1:10 3510	|	|	|	|	
|	|	145	Eval P2255	|	|	|	|	
↓	↓	↓ 146	INDAB 0.05ppm P2282	↓	↓	↓	↓	

pest - soil

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - SOIL PESTICIDE/PCB

Extraction Method: SW846 3550 (sonication) ✓ SW846 3540 (soxhlet) _____

Analytical Method: SW846 8081 ✓ SW846 8082 _____ CLP OLM03.1 _____ CLP OLM04.2 _____

Date QC Started: 12/12/02 QC Expiration Date: 12/26/02 QC Batch ID _____

Surrogate ID: GC/691 Spike ID: GC/689 Spike ID: _____

Solvent Lot # CH_2Cl_2: X31E08 / Acetone: V33E28 Solvent Lot # Hexane: X30E29

Date Extracted	Ext. Init.	Sample ID	Initial Vol.	Surr. Vol.	Spike Vol.	Fraction		Final Vol.	Date Conc.	Tray Location	Initials	Clean-Up				Comments
						Pest	PCB					GPC	Flor.	Acid Wash	Other	
12/12/02	KH	WC1299 -1	30.0 g	1.0 mL	NR	✓		10 mL	12-12-02	PP499 01	AB					
↓	↓	-2	↓	↓	1.0 mL	✓		↓	↓	02	↓					
↓	↓	-3	↓	↓	↓	✓		↓	↓	03	↓					

QAEX079

Katahdin Analytical Services 3000155

0000081

Pest - Son

Date Extracted	Ext. Init.	Sample ID	Initial Vol.	Surr. Vol.	Spike Vol.	Fraction		Final Vol.	Date Conc.	Tray Location	Initials	Clean-Up				Comments
						Pest	PCB					GPC	Flor.	Acid Wash	Other	
12/13/05	RH	WS4555-1	30.0 g	1.0 mL	NA	✓		10 mL	12-12-05	PB499 D4	AB					WG-1299
		-2				✓				D5						
		-3				✓				D6						
		-4				✓				D7						
		-5				✓				D8						
		-6				✓				D9						
		-7				✓				D10						

QAEX079
Katahdin Analytical Services 3000156
000008

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **G. ROOF** **DATE:** **MARCH 22, 2004**

FROM: **JACQUELINE J. RASPANTI** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
CTO- 162 NAS JACKSONVILLE
SAMPLE DELIVERY GROUP (SDG) – WU0535

SAMPLES: 8/Aqueous/

JAX47-937-MW1S-022704	JAX47-937-MW2S-022704	JAX47-937-MW4S-022704
JAX47-DUP01-022704	JAX47-MW12S-022704	JAX47-MW14D-022704
JAX47-MW15S-022704	JAX47-MW18S-022704	

Overview

The sample set for CTO 162, NAS Jacksonville, SDG WU0535, consists of eight (8) aqueous environmental samples. One (1) field duplicate pair (JAX47-DUP01-022704 / JAX47-937-MW1S-022704) is included in this SDG.

All samples were analyzed for total arsenic. The samples were collected by Tetra Tech NUS on February 27, 2004 and analyzed by Katahdin Analytical Services under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Arsenic analyses were conducted using SW 846 method 6010B.

Metals analyses were conducted using Inductively Coupled Plasma (ICP) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Results
* • Laboratory Blank Analyses
* • Field Duplicate Results
* • Detection Limits

* - All quality control criteria were met for this parameter.

Notes

Samples JAX47-937-MW1S-022704, JAX47-937-MW2S-022704, and JAX47-937-MW4S-022704 were reported by the laboratory as JAX47-937-MW1S-02270, JAX47-937-MW2S-02270, and JAX47-937-MW4S-02270 due to limitations in their data reporting software. The data reviewer corrected the Form 1's and the database.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", July 2002 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Jacqueline J. Raspanti

Tetra Tech NUS
Jacqueline J. Raspanti
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 3966

SDG: WU0535 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-937-MW1S-022704
samp_date	2/27/2004
lab_id	WU0535-005
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	387		

nsample	JAX47-937-MW2S-022704
samp_date	2/27/2004
lab_id	WU0535-006
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	8960		

nsample	JAX47-937-MW4S-022704
samp_date	2/27/2004
lab_id	WU0535-004
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.8		

PROJ_NO: 3966

SDG: WU0535 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-DUP01-022704	nsample	JAX47-MW12S-022704	nsample	JAX47-MW14D-022704
samp_date	2/27/2004	samp_date	2/27/2004	samp_date	2/27/2004
lab_id	WU0535-001	lab_id	WU0535-002	lab_id	WU0535-007
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:	JAX47-937-MW1S-022704	DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	301		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4.4		

PROJ_NO: 3966

SDG: WU0535 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW15S-022704	nsample	JAX47-MW18S-022704
samp_date	2/27/2004	samp_date	2/27/2004
lab_id	WU0535-008	lab_id	WU0535-003
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-937-MW1S-022704 JJR

Matrix: WATER **SDG Name:** WU535

Percent Solids: 0.00 **Lab Sample ID:** WU0535-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	387			P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

1

INORGANIC ANALYSIS DATA SHEET

JJR

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-937-MW2S-022704

Matrix: WATER **SDG Name:** WU535

Percent Solids: 0.00 **Lab Sample ID:** WU0535-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	8960			P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

GJR

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-937-MW4S-022704

Matrix: WATER **SDG Name:** WU535

Percent Solids: 0.00 **Lab Sample ID:** WU0535-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	3.8	B		P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-DUP01-022704

Matrix: WATER **SDG Name:** WU535

Percent Solids: 0.00 **Lab Sample ID:** WU0535-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	301			P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-MW12S-022704

Matrix: WATER **SDG Name:** WU535

Percent Solids: 0.00 **Lab Sample ID:** WU0535-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	2.13	U		P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-MW14D-022704

Matrix: WATER **SDG Name:** WU535

Percent Solids: 0.00 **Lab Sample ID:** WU0535-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	4.4	B		P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-MW15S-022704

Matrix: WATER **SDG Name:** WU535

Percent Solids: 0.00 **Lab Sample ID:** WU0535-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	2.13	U		P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-MW18S-022704

Matrix: WATER **SDG Name:** WU535

Percent Solids: 0.00 **Lab Sample ID:** WU0535-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	2.13	U		P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

APPENDIX C

SUPPORT DOCUMENTATION

WW0535

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 47-022704 | **PAGE** 1 **OF** 1

PROJECT NO: N3966	**FACILITY:** PEST SHOP. NASJAX	**PROJECT MANAGER** GREG ROOF	**PHONE NUMBER** 904.636.6125	**LABORATORY NAME AND CONTACT:** KATAHDIN · AUDREA COLBY
SAMPLERS (SIGNATURE) Charles Moore, Louis Knight		**FIELD OPERATIONS LEADER** LOUIS Knight	**PHONE NUMBER** SAME	**ADDRESS** 340 COUNTY RD #5
		CARRIER/WAYBILL NUMBER 8427 1834 7278		**CITY, STATE** WESTBROOK, ME 04092

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	250 ml P	PRESERVATIVE USED	HNO3	TYPE OF ANALYSIS	ARSENIC							COMMENTS
2/27	0000	JAX47-Dup 01-022704				GW	G	1		1											
	1035	JAX 47-MW12s-022704						1		1											Cool To 4°C
	0952	JAX 47-MW18s-022704						1		1											
	1100	JAX 47-937-MW4S-022704						1		1											
	1245	JAX 47-937-MW1s-022704						1		1											
	1250	JA 47-937-MW2s-022704						1		1											
	1350	JAX47-MW14D-022704						1		1											
↓	1410	JAX 47-MW15s-022704				↓		1		1											1 cooler w/ 18 samples

1. RELINQUISHED BY Charles Moore	DATE 2-27-04	TIME 1600	1. RECEIVED BY	DATE 2/28/04	TIME 1100
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

00005

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # LW60535

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: Tetratech

PROJECT: CT0162 NAS JAX

COC#

SDG#

DATE / TIME RECEIVED: 2/28/04 1100

DELIVERED BY: Fedex

RECEIVED BY: AmB

LIMS ENTRY BY: JEL

LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☒	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 2.7	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☑	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☒		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☒	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☒	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☒	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☒	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☐	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

HOLDTIME

SDG WU0535

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	JAX47-MW18S-022704	WU0535-003	NM	02/27/2004	03/02/2004	03/03/2004	4	1	5
M	UG/L	JAX47-MW15S-022704	WU0535-008	NM	02/27/2004	03/02/2004	03/03/2004	4	1	5
M	UG/L	JAX47-MW14D-022704	WU0535-007	NM	02/27/2004	03/02/2004	03/03/2004	4	1	5
M	UG/L	JAX47-MW12S-022704	WU0535-002	NM	02/27/2004	03/02/2004	03/03/2004	4	1	5
M	UG/L	JAX47-DUP01-022704	WU0535-001	NM	02/27/2004	03/02/2004	03/03/2004	4	1	5
M	UG/L	JAX47-937-MW4S-02270	WU0535-004	NM	02/27/2004	03/02/2004	03/03/2004	4	1	5
M	UG/L	JAX47-937-MW2S-02270	WU0535-006	NM	02/27/2004	03/02/2004	03/03/2004	4	1	5
M	UG/L	JAX47-937-MW1S-02270	WU0535-005	NM	02/27/2004	03/02/2004	03/03/2004	4	1	5

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE CTO 162 NAS JACKSONVILLE
WU0535
TASK ORDER MANAGER: GREG ROOF

Sample Receipt

The following samples were received on February 28, 2004 and were logged in under Katahdin Analytical Services work order number WU0535 for a hardcopy due date of March 11, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0535-1	JAX47-DUP01-022704
WU0535-2	JAX47-MW12S-022704
WU0535-3	JAX47-MW18S-022704
WU0535-4	JAX47-937-MW4S-02270
WU0535-5	JAX47-937-MW1S-02270
WU0535-6	JAX47-937-MW2S-02270
WU0535-7	JAX47-MW14D-022704
WU0535-8	JAX47-MW15S-022704

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Metals Analysis

The samples of Katahdin SDG WU0535 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WU0535-(1-8) were digested for ICP analysis on 0/02/04 (QC Batch UC02ICW0) in accordance with USEPA Method 3010B. Katahdin Sample No. WU0535-1 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of the Katahdin SDG WU0535 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash (TJA) Trace ICP. All samples were

analyzed within holding times and all QC criteria were met with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Matrix QC Summary

The matrix-spiked aliquots of Katahdin Sample No. WU0535-1 was within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for arsenic.

The matrix spike duplicate analysis of Katahdin Sample No. WU0535-1 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for arsenic.

The serial dilution analyses of Katahdin Sample No. WU0535-1 was within the laboratory's ICP serial dilution acceptance limit (<10% difference between the original sample result and the result for a 5-fold dilution of the sample, if the result for the dilution is at least ten times the instrument detection limit) for arsenic.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Maria Crouch
03.05.04
Maria Crouch
Quality Assurance Officer

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: WU535 **SOW No.** SW846

Client Field ID	Lab Sample ID
JAX47-937-MW1S-02270	WU0535-005
JAX47-937-MW2S-02270	WU0535-006
JAX47-937-MW4S-02270	WU0535-004
JAX47-DUP01-022704	WU0535-001
JAX47-DUP01-022704	WU0535-001P
JAX47-DUP01-022704	WU0535-001S
JAX47-MW12S-022704	WU0535-002
JAX47-MW14D-022704	WU0535-007
JAX47-MW15S-022704	WU0535-008
JAX47-MW18S-022704	WU0535-003

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Molly Fabbricante Name: Molly Fabbricante

Date: 3.5.04 Title: Chemist

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU535

Concentration Units: ug/L

SAMPLE: ICV

File: AUC03A Mar 03, 2004 9:55

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18735.44	93.7
ARSENIC	600.0	595.79	99.3
CALCIUM	20000.0	20324.18	101.6
IRON	20000.0	21214.02	106.1
MAGNESIUM	20000.0	20775.90	103.9

SAMPLE: CCV

File: AUC03A Mar 03, 2004 10:37

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48590.88	97.2
ARSENIC	1000.0	986.26	98.6
CALCIUM	50000.0	50394.61	100.8
IRON	20000.0	19833.35	99.2
MAGNESIUM	50000.0	50530.51	101.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU535

Concentration Units: ug/L

SAMPLE: CCV

File: AUC03A Mar 03, 2004 11:57

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48160.86	96.3
ARSENIC	1000.0	1011.70	101.2
CALCIUM	50000.0	51304.77	102.6
IRON	20000.0	20017.31	100.1
MAGNESIUM	50000.0	50706.60	101.4

SAMPLE: CCV

File: AUC03A Mar 03, 2004 13:18

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47948.60	95.9
ARSENIC	1000.0	1024.59	102.5
CALCIUM	50000.0	51417.59	102.8
IRON	20000.0	20010.68	100.1
MAGNESIUM	50000.0	50586.23	101.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU535

Concentration Units: ug/L

SAMPLE: CCV

File: AUC03A Mar 03, 2004 14:25

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47948.98	95.9
ARSENIC	1000.0	1062.05	106.2
CALCIUM	50000.0	52150.50	104.3
IRON	20000.0	20356.84	101.8
MAGNESIUM	50000.0	51015.43	102.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU535

Concentration Units: ug/L

SAMPLE: ICB

File: AUC03A Mar 03, 2004 10:02

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC03A Mar 03, 2004 10:44

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC03A Mar 03, 2004 12:04

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	6.01	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU535

Concentration Units: ug/L

SAMPLE: CCB

File: AUC03A Mar 03, 2004 13:24

Analyte	Result	C
ALUMINUM	42.28	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC03A Mar 03, 2004 14:31

Analyte	Result	C
ALUMINUM	80.27	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWUC02ICW0

Matrix: WATER **SDG Name:** WU535

QC Batch ID: UC02ICW0

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	2.130	U

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 7/23/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ARSENIC	8.0	2.13	P

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 1/17/03

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	15.00	500000	P
ARSENIC	15.00	10000	P
CALCIUM	15.00	500000	P
IRON	15.00	250000	P
MAGNESIUM	15.00	500000	P

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU535

Instrument ID: TJA TRACE ICP **File Name:** AUC03A

Date: 3/3/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
S0		1	8:49	Al	As	Ca	Fe	Mg
S1		1	8:56	Al	As	Ca	Fe	Mg
AL_IEC		1	9:06	Al	As	Ca	Fe	Mg
FE_IEC		1	9:12	Al	As	Ca	Fe	Mg
MN_IEC		1	9:19	Al	As	Ca	Fe	Mg
IEC		1	9:26	Al	As	Ca	Fe	Mg
ZZZZZZ		1	9:33					
MN_IEC		1	9:42	Al	As	Ca	Fe	Mg
IEC		1	9:48	Al	As	Ca	Fe	Mg
ICV		1	9:55	Al	As	Ca	Fe	Mg
ICB		1	10:02	Al	As	Ca	Fe	Mg
PQL		1	10:09	Al	As	Ca	Fe	Mg
CRI		1	10:15	Al	As	Ca	Fe	Mg
ICSA		1	10:22	Al	As	Ca	Fe	Mg
ICSAB		1	10:29	Al	As	Ca	Fe	Mg
CCV		1	10:37	Al	As	Ca	Fe	Mg
CCB		1	10:44	Al	As	Ca	Fe	Mg
ZZZZZZ		1	10:51					
ZZZZZZ		1	10:57					
ZZZZZZ		1	11:04					
ZZZZZZ		1	11:11					
ZZZZZZ		1	11:17					
ZZZZZZ		5	11:24					
ZZZZZZ		1	11:31					
ZZZZZZ		1	11:37					
ZZZZZZ		1	11:44					
ZZZZZZ		1	11:51					
CCV		1	11:57	Al	As	Ca	Fe	Mg
CCB		1	12:04	Al	As	Ca	Fe	Mg
ZZZZZZ		5	12:11					
ZZZZZZ		10	12:17					
PBWUC02ICW0		1	12:24		As			
LCSWUC02ICW0		1	12:31		As			
WU0535-001	JAX47-DUP01-022704	1	12:38		As			
WU0535-001L	JAX47-DUP01-022704L	5	12:44		As			
WU0535-001P	JAX47-DUP01-022704P	1	12:51		As			
WU0535-001S	JAX47-DUP01-022704S	1	12:58		As			
WU0535-002	JAX47-MW12S-022704	1	13:04		As			
WU0535-003	JAX47-MW18S-022704	1	13:11		As			
CCV		1	13:18	Al	As	Ca	Fe	Mg
CCB		1	13:24	Al	As	Ca	Fe	Mg
WU0535-004	JAX47-937-MW4S-02270	1	13:31		As			
WU0535-005	JAX47-937-MW1S-02270	1	13:38		As			
WU0535-006	JAX47-937-MW2S-02270	1	13:44		As			
WU0535-007	JAX47-MW14D-022704	1	13:51		As			
WU0535-008	JAX47-MW15S-022704	1	13:58		As			
CRI		1	14:04	Al	As	Ca	Fe	Mg
ICSA		1	14:11	Al	As	Ca	Fe	Mg
ICSAB		1	14:18	Al	As	Ca	Fe	Mg
CCV		1	14:25	Al	As	Ca	Fe	Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU535

Instrument ID: TJA TRACE ICP **File Name:** AUC03A

Date: 3/3/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
CCB		1	14:31	Al	As	Ca	Fe	Mg

NAS Jacksonville
SDG WU0535

FIELD DUPLICATE PRECISION

ANALYTE	JAX47-DUP01-022704	JAX47-937-MW1S-022704	RPD	DIFFERENCE
Arsenic	301	387	25.00	86

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. ROOF**	**DATE:**	**APRIL 20, 2004**
FROM:	**ERIN M. FAUST**	**COPIES:**	**DV FILE**
SUBJECT:	**INORGANIC DATA VALIDATION – ARSENIC CTO-162 NAS JACKSONVILLE SAMPLE DELIVERY GROUP (SDG) – WU0811**		
SAMPLES:	3/Groundwater/		
	JAX47-937-MW03S	JAX47-MW16S	JAX47-MW17S

Overview

The sample set for CTO 162, NAS Jacksonville, SDG WU0811, consists of three (3) groundwater environmental samples.

All samples were analyzed for arsenic. The samples were collected by TetraTech NUS on March 26, 2004 and analyzed by Katahdin Analytical Services under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Arsenic analyses were conducted using SW 846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Blank Analyses
* • Detection Limits

* - All quality control criteria were met for this parameter.

Notes

The Contract Required Detection Limit (CRDL) percent recovery for arsenic on 3/31/04 at 14:58 was > 120% quality control limit. No validation action was taken based on the CRDL percent recovery.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", July 2002 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Erin M. Faust
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 3966

SDG: WU0811 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-937-MW03S	nsample	JAX47-MW16S	nsample	JAX47-MW17S
samp_date	3/26/2004	samp_date	3/26/2004	samp_date	3/26/2004
lab_id	WU0811-001	lab_id	WU0811-002	lab_id	WU0811-003
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	7930		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.8		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-937-MW03S

Matrix: WATER **SDG Name:** WU0811

Percent Solids: 0.00 **Lab Sample ID:** WU0811-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	7930			P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-MW16S

Matrix: WATER **SDG Name:** WU0811

Percent Solids: 0.00 **Lab Sample ID:** WU0811-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	2.8	B		P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX47-MW17S

Matrix: WATER **SDG Name:** WU0811

Percent Solids: 0.00 **Lab Sample ID:** WU0811-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	2.13	U		P	1	8.0	2.13

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

APPENDIX C
SUPPORT DOCUMENTATION

WW0811

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 162-32604 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N3966	PSC-471 / Pesticide Shop	Greg Roof	904-636-6175	Katahdin Analytical – Andrea Colby
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Charles Metz		Charles Metz	904-636-6175	340 County Rd # S
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
				Westbrook ME 04092

STANDARD TAT ☐ RUSH TAT ☒ — See Below *
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): P	PRESERVATIVE USED: HNO3	TYPE OF ANALYSIS: Arsenic							COMMENTS
3-26	1215	JAX47-937-MW03s				GW	G	1	1									Cool 4° C
3-26	1225	JAX47-MW16s				GW	G	1	1									
3-26	1315	JAX47-MW17s				GW	G	1	1									

* Rush Analysis (2-day) ~~on~~ MW03s and HOLD MW16s and MW17s until Notified. by Tetra Tech (Greg Roof)

1 cooler w/ 3 samples

1. RELINQUISHED BY	Charles Metz	DATE 3-26-04	TIME 1600	1. RECEIVED BY	Fed Ex	DATE	TIME
2. RELINQUISHED BY	Fed Ex	DATE	TIME	2. RECEIVED BY	George Brewer	DATE 03/27/04	TIME 10:01
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

000000

HOLDTIME

SDG WU0811

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	JAX47-MW17S	WU0811-003	NM	03/26/2004	03/30/2004	03/31/2004	4	1	5
M	UG/L	JAX47-MW16S	WU0811-002	NM	03/26/2004	03/30/2004	03/31/2004	4	1	5
M	UG/L	JAX47-937-MW03S	WU0811-001	NM	03/26/2004	03/29/2004	03/30/2004	3	1	4

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE CTO 162 NAS JAX
WU0811
TASK ORDER MANAGER: GREG ROOF

Sample Receipt

The following samples were received on March 29, 2004 and were logged in under Katahdin Analytical Services work order number WU0811 for a hardcopy due date of April 12, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0811-1	JAX47-937-MW03S
WU0811-2	JAX47-MW16S
WU0811-3	JAX47-MW17S

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Metals Analysis

The samples of Katahdin SDG WU0811 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample No. WU0811-1 was digested for ICP analysis on 03/29/04 (QC Batch UC29ICW0) in accordance with USEPA Method 3010A.

Aqueous-matrix Katahdin Sample Nos. WU0811-(2-3) were digested for ICP analysis on 03/30/04 (QC Batch UC30ICW0) in accordance with USEPA Method 3010A.

ICP analyses of the Katahdin SDG WU0811 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash (TJA) Trace ICP. All samples were analyzed within holding times and all QC criteria were met with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Maria Crouch
04.05.04
Maria Crouch
Quality Assurance Officer

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: ICV

File: AUC30A Mar 30, 2004 10:29

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18576.11	92.9
ARSENIC	600.0	576.68	96.1
CALCIUM	20000.0	20078.52	100.4
IRON	20000.0	19938.94	99.7
MAGNESIUM	20000.0	20420.72	102.1

SAMPLE: CCV

File: AUC30A Mar 30, 2004 11:10

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48316.69	96.6
ARSENIC	1000.0	1007.70	100.8
CALCIUM	50000.0	50757.44	101.5
IRON	20000.0	19868.78	99.3
MAGNESIUM	50000.0	50847.03	101.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: CCV

File: AUC30A Mar 30, 2004 12:30

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48252.12	96.5
ARSENIC	1000.0	1016.33	101.6
CALCIUM	50000.0	51695.06	103.4
IRON	20000.0	20106.95	100.5
MAGNESIUM	50000.0	51456.32	102.9

SAMPLE: CCV

File: AUC30A Mar 30, 2004 13:50

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47295.77	94.6
ARSENIC	1000.0	1014.33	101.4
CALCIUM	50000.0	51177.44	102.4
IRON	20000.0	19808.74	99.0
MAGNESIUM	50000.0	50750.10	101.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: CCV

File: AUC30A Mar 30, 2004 15:04

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47849.06	95.7
ARSENIC	1000.0	1040.38	104.0
CALCIUM	50000.0	52293.69	104.6
IRON	20000.0	20278.78	101.4
MAGNESIUM	50000.0	51645.17	103.3

SAMPLE: CCV

File: AUC30A Mar 30, 2004 15:37

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48015.27	96.0
ARSENIC	1000.0	1045.23	104.5
CALCIUM	50000.0	52344.20	104.7
IRON	20000.0	20367.83	101.8
MAGNESIUM	50000.0	51736.39	103.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: ICV

File: AUC31A Mar 31, 2004 10:08

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18807.17	94.0
ARSENIC	600.0	593.35	98.9
CALCIUM	20000.0	20584.43	102.9
IRON	20000.0	20459.27	102.3
MAGNESIUM	20000.0	20912.67	104.6

SAMPLE: CCV

File: AUC31A Mar 31, 2004 10:48

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48076.86	96.2
ARSENIC	1000.0	1026.81	102.7
CALCIUM	50000.0	51541.44	103.1
IRON	20000.0	20245.25	101.2
MAGNESIUM	50000.0	51384.82	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: CCV

File: AUC31A Mar 31, 2004 12:09

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47871.36	95.7
ARSENIC	1000.0	1068.56	106.9
CALCIUM	50000.0	52922.64	105.8
IRON	20000.0	20699.38	103.5
MAGNESIUM	50000.0	52327.05	104.7

SAMPLE: CCV

File: AUC31A Mar 31, 2004 13:36

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47991.92	96.0
ARSENIC	1000.0	1035.41	103.5
CALCIUM	50000.0	52428.58	104.9
IRON	20000.0	20412.39	102.1
MAGNESIUM	50000.0	51341.21	102.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: CCV

File: AUC31A Mar 31, 2004 14:44

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47309.15	94.6
ARSENIC	1000.0	1053.38	105.3
CALCIUM	50000.0	52092.92	104.2
IRON	20000.0	20448.69	102.2
MAGNESIUM	50000.0	51028.56	102.1

SAMPLE: CCV

File: AUC31A Mar 31, 2004 15:18

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48137.92	96.3
ARSENIC	1000.0	1094.40	109.4
CALCIUM	50000.0	53291.96	106.6
IRON	20000.0	20924.88	104.6
MAGNESIUM	50000.0	51836.55	103.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: CRI

File: AUC30A Mar 30, 2004 10:50

Analyte	TRUE	FOUND	% R
ARSENIC	20.0	20.87	104.4

SAMPLE: CRI

File: AUC30A Mar 30, 2004 15:17

Analyte	TRUE	FOUND	% R
ARSENIC	20.0	23.75	118.8

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: CRI

File: AUC31A Mar 31, 2004 10:28

Analyte	TRUE	FOUND	% R
ARSENIC	20.0	23.57	117.9

SAMPLE: CRI

File: AUC31A Mar 31, 2004 14:58

Analyte	TRUE	FOUND	% R
ARSENIC	20.0	24.73	123.6

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

SAMPLE: PQL

File: AUC30A Mar 30, 2004 10:43 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	232.49	77.5
ARSENIC	8.0	8.37	104.6
CALCIUM	50.0	54.55	109.1
IRON	100.0	86.84	86.8
MAGNESIUM	50.0	63.49	127.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

SAMPLE: PQL

File: AUC31A Mar 31, 2004 10:21 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	309.59	103.2
ARSENIC	8.0	7.51	93.9
CALCIUM	50.0	50.00	100.0
IRON	100.0	84.55	84.5
MAGNESIUM	50.0	59.67	119.3

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: ICB

File: AUC30A Mar 30, 2004 10:36

Analyte	Result	C
ALUMINUM	-35.77	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC30A Mar 30, 2004 11:16

Analyte	Result	C
ALUMINUM	-42.17	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC30A Mar 30, 2004 12:37

Analyte	Result	C
ALUMINUM	-41.00	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: CCB

File: AUC30A Mar 30, 2004 13:57

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC30A Mar 30, 2004 15:11

Analyte	Result	C
ALUMINUM	73.92	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC30A Mar 30, 2004 15:44

Analyte	Result	C
ALUMINUM	81.21	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: ICB

File: AUC31A Mar 31, 2004 10:15

Analyte	Result	C
ALUMINUM	33.48	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC31A Mar 31, 2004 10:55

Analyte	Result	C
ALUMINUM	58.61	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	-23.12	B
MAGNESIUM	-6.61	B

SAMPLE: CCB

File: AUC31A Mar 31, 2004 12:19

Analyte	Result	C
ALUMINUM	88.05	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.90	U
MAGNESIUM	5.65	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Concentration Units: ug/L

SAMPLE: CCB

File: AUC31A Mar 31, 2004 13:43

Analyte	Result	C
ALUMINUM	135.98	B
ARSENIC	2.13	U
CALCIUM	12.40	U
IRON	13.93	B
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC31A Mar 31, 2004 14:51

Analyte	Result	C
ALUMINUM	244.31	B
ARSENIC	2.13	U
CALCIUM	-14.61	B
IRON	-20.59	B
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUC31A Mar 31, 2004 15:24

Analyte	Result	C
ALUMINUM	363.66	
ARSENIC	2.13	U
CALCIUM	-18.37	B
IRON	13.90	U
MAGNESIUM	5.65	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWUC29ICW0

Matrix: WATER **SDG Name:** WU0811

QC Batch ID: UC29ICW0

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	2.130	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWUC30ICW0

Matrix: WATER **SDG Name:** WU0811

QC Batch ID: UC30ICW0

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	2.130	U

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWUC29ICW0

Matrix: WATER **SDG Name:** WU0811

QC Batch ID: UC29ICW0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	500.0	505.45	101.1	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWUC30ICW0

Matrix: WATER **SDG Name:** WU0811

QC Batch ID: UC30ICW0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	500.0	531.18	106.2	80	120

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 7/23/2003

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ARSENIC	8.0	2.13	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UC29ICW0

Matrix: WATER **SDG Name:** WU0811

Method: P **Prep Date:** 03/29/2004

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWUC29ICW0	LCSWUC29ICW0	0.05	0.05
PBWUC29ICW0	PBWUC29ICW0	0.05	0.05
JAX47-937-MW03S	WU0811-001	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UC30ICW0

Matrix: WATER **SDG Name:** WU0811

Method: P **Prep Date:** 03/30/2004

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWUC30ICW0	LCSWUC30ICW0	0.05	0.05
PBWUC30ICW0	PBWUC30ICW0	0.05	0.05
JAX47-MW16S	WU0811-002	0.05	0.05
JAX47-MW17S	WU0811-003	0.05	0.05

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Instrument ID: TJA TRACE ICP **File Name:** AUC30A

Date: 3/30/2004 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
S0		1	9:46	Al	As	Ca	Fe	Mg
S1		1	9:53	Al	As	Ca	Fe	Mg
AL_IEC		1	10:02	Al	As	Ca	Fe	Mg
FE_IEC		1	10:09	Al	As	Ca	Fe	Mg
MN_IEC		1	10:16	Al	As	Ca	Fe	Mg
IEC		1	10:23	Al	As	Ca	Fe	Mg
ICV		1	10:29	Al	As	Ca	Fe	Mg
ICB		1	10:36	Al	As	Ca	Fe	Mg
PQL		1	10:43	Al	As	Ca	Fe	Mg
CRI		1	10:50	Al	As	Ca	Fe	Mg
ICSA		1	10:56	Al	As	Ca	Fe	Mg
ICSAB		1	11:03	Al	As	Ca	Fe	Mg
CCV		1	11:10	Al	As	Ca	Fe	Mg
CCB		1	11:16	Al	As	Ca	Fe	Mg
PBWUC29ICW0		1	11:23		As			
LCSWUC29ICW0		1	11:30		As			
WU0811-001	JAX47-937-MW03S	1	11:36		As			
ZZZZZZ		1	11:43					
ZZZZZZ		1	11:50					
ZZZZZZ		1	11:56					
ZZZZZZ		5	12:03					
ZZZZZZ		1	12:10					
ZZZZZZ		1	12:17					
ZZZZZZ		1	12:23					
CCV		1	12:30	Al	As	Ca	Fe	Mg
CCB		1	12:37	Al	As	Ca	Fe	Mg
ZZZZZZ		1	12:43					
ZZZZZZ		1	12:50					
ZZZZZZ		1	12:57					
ZZZZZZ		1	13:03					
ZZZZZZ		1	13:10					
ZZZZZZ		1	13:17					
ZZZZZZ		1	13:23					
ZZZZZZ		1	13:30					
ZZZZZZ		1	13:37					
ZZZZZZ		1	13:44					
CCV		1	13:50	Al	As	Ca	Fe	Mg
CCB		1	13:57	Al	As	Ca	Fe	Mg
ZZZZZZ		1	14:04					
ZZZZZZ		51	14:10					
ZZZZZZ		1	14:17					
ZZZZZZ		1	14:24					
ZZZZZZ		1	14:31					
ZZZZZZ		1	14:37					
ZZZZZZ		1	14:44					
ZZZZZZ		1	14:51					
ZZZZZZ		1	14:57					
CCV		1	15:04	Al	As	Ca	Fe	Mg
CCB		1	15:11	Al	As	Ca	Fe	Mg
CRI		1	15:17	Al	As	Ca	Fe	Mg

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Instrument ID: TJA TRACE ICP **File Name:** AUC30A

Date: 3/30/2004 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
ICSA		1	15:24	Al	As	Ca	Fe	Mg
ICSAB		1	15:31	Al	As	Ca	Fe	Mg
CCV		1	15:37	Al	As	Ca	Fe	Mg
CCB		1	15:44	Al	As	Ca	Fe	Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Instrument ID: TJA TRACE ICP **File Name:** AUC31A

Date: 3/31/2004 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
S0		1	9:25	Al	As	Ca	Fe	Mg
S1		1	9:31	Al	As	Ca	Fe	Mg
AL_IEC		1	9:41	Al	As	Ca	Fe	Mg
FE_IEC		1	9:48	Al	As	Ca	Fe	Mg
MN_IEC		1	9:54	Al	As	Ca	Fe	Mg
IEC		1	10:01	Al	As	Ca	Fe	Mg
ICV		1	10:08	Al	As	Ca	Fe	Mg
ICB		1	10:15	Al	As	Ca	Fe	Mg
PQL		1	10:21	Al	As	Ca	Fe	Mg
CRI		1	10:28	Al	As	Ca	Fe	Mg
ICSA		1	10:35	Al	As	Ca	Fe	Mg
ICSAB		1	10:41	Al	As	Ca	Fe	Mg
CCV		1	10:48	Al	As	Ca	Fe	Mg
CCB		1	10:55	Al	As	Ca	Fe	Mg
ZZZZZZ		1	11:02					
ZZZZZZ		1	11:08					
ZZZZZZ		1	11:16					
ZZZZZZ		1	11:22					
ZZZZZZ		1	11:29					
ZZZZZZ		1	11:36					
PBWUC30ICW0		1	11:42		As			
LCSWUC30ICW0		1	11:49		As			
WU0811-002	JAX47-MW16S	1	11:56		As			
WU0811-003	JAX47-MW17S	1	12:02		As			
CCV		1	12:09	Al	As	Ca	Fe	Mg
CCB		1	12:19	Al	As	Ca	Fe	Mg
ZZZZZZ		1	12:29					
ZZZZZZ		100	12:36					
ZZZZZZ		1	12:43					
ZZZZZZ		1	12:49					
ZZZZZZ		1	12:56					
ZZZZZZ		5	13:03					
ZZZZZZ		1	13:09					
ZZZZZZ		1	13:16					
ZZZZZZ		1	13:23					
ZZZZZZ		1	13:29					
CCV		1	13:36	Al	As	Ca	Fe	Mg
CCB		1	13:43	Al	As	Ca	Fe	Mg
ZZZZZZ		1	13:49					
ZZZZZZ		1	13:56					
ZZZZZZ		1	14:03					
ZZZZZZ		1	14:10					
ZZZZZZ		1	14:16					
ZZZZZZ		1	14:23					
ZZZZZZ		1	14:30					
ZZZZZZ		1	14:36					
CCV		1	14:44	Al	As	Ca	Fe	Mg
CCB		1	14:51	Al	As	Ca	Fe	Mg
CRI		1	14:58	Al	As	Ca	Fe	Mg
ICSA		1	15:04	Al	As	Ca	Fe	Mg

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0811

Instrument ID: TJA TRACE ICP **File Name:** AUC31A

Date: 3/31/2004 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
ICSAB		1	15:11	Al	As	Ca	Fe	Mg
CCV		1	15:18	Al	As	Ca	Fe	Mg
CCB		1	15:24	Al	As	Ca	Fe	Mg

J.3 Phase III

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **APRIL 17, 2007**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC, TOTAL DISSOLVED SOLIDS, TOTAL SUSPENDED SOLIDS**
CTO – 047 NAS JACKSONVILLE
SAMPLE DELIVERY GROUP (SDG) – F48437

SAMPLES: 4/Aqueous/

JAX47-937-MW025	JAX47-937-MW03S
JAX47-937-MW04S	JAX47-937-MW05S

Overview

The sample set for CTO 047, NAS Jacksonville, SDG F48437, consists of four (4) aqueous environmental samples. No field duplicate pairs are included within this SDG.

All samples were analyzed for arsenic, total dissolved solids and total suspended solids. The samples were collected by Tetra Tech NUS on April 3, 2007 and analyzed by Accutest Laboratories Southeast under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Arsenic analyses were conducted using SW-846 method 6010B. Total dissolved solid analyses were conducted using SW-846 method 160.1. Total suspended solid analyses were conducted using SW-846 method 160.2.

Metals analyses were conducted using Inductively Coupled Plasma (ICP) instrumentation.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Verification Results
• Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike/Matrix Spike Duplicate Results
* • Laboratory Control Sample/ Laboratory Control Sample Duplicate Results
* • ICP Serial Dilution Results
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminant was detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Arsenic	4.4 ug/L	22 ug/L

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level for arsenic were qualified "U" as a result of laboratory blank contamination.

Notes

Laboratory duplicate, matrix spike / matrix spike duplicate and ICP serial dilution analyses were not performed on samples included within this SDG. No validation actions were warranted.

Executive Summary

Laboratory Performance: Arsenic was present in the laboratory method blank.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004 and the DOD document entitled "Quality System Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DOD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O - Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: F48437 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-937-MW02S	nsample	JAX47-937-MW03S	nsample	JAX47-937-MW04S
samp_date	4/3/2007	samp_date	4/3/2007	samp_date	4/3/2007
lab_id	F48437-1	lab_id	F48437-2	lab_id	F48437-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	6640		

Parameter	Result	Val Qual	Qual Code
ARSENIC	6240		

Parameter	Result	Val Qual	Qual Code
ARSENIC	18.3	U	A

PROJ_NO: 00497

SDG: F48437 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-937-MW05S
samp_date	4/3/2007
lab_id	F48437-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2100		

PROJ_NO: 00497

SDG: F48437 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX47-937-MW02S	nsample	JAX47-937-MW03S	nsample	JAX47-937-MW04S
samp_date	4/3/2007	samp_date	4/3/2007	samp_date	4/3/2007
lab_id	F48437-1	lab_id	F48437-2	lab_id	F48437-3
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL DISSOLVED SOLIDS	MG/L	384		
TOTAL SUSPENDED SOLIDS	MG/L	8		

Parameter	units	Result	Val Qual	Qual Code
TOTAL DISSOLVED SOLIDS	MG/L	325		
TOTAL SUSPENDED SOLIDS	MG/L	23		

Parameter	units	Result	Val Qual	Qual Code
TOTAL DISSOLVED SOLIDS	MG/L	362		
TOTAL SUSPENDED SOLIDS	MG/L	4		

PROJ_NO: 00497

SDG: F48437 MEDIA: WATER DATA FRACTION: MISC

nsample	JAX47-937-MW05S
samp_date	4/3/2007
lab_id	F48437-4
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL DISSOLVED SOLIDS	MG/L	572		
TOTAL SUSPENDED SOLIDS	MG/L	12		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Report of Analysis

Client Sample ID:	JAX47-937-MW02S		
Lab Sample ID:	F48437-1	Date Sampled:	04/03/07
Matrix:	AQ - Ground Water	Date Received:	04/04/07
		Percent Solids:	n/a
Project:	PSC47-NAS Jax		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6640	50	14	ug/l	5	04/05/07	04/06/07	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5616
(2) Prep QC Batch: MP11642

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	JAX47-937-MW03S		
Lab Sample ID:	F48437-2	Date Sampled:	04/03/07
Matrix:	AQ - Ground Water	Date Received:	04/04/07
		Percent Solids:	n/a
Project:	PSC47-NAS Jax		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6240	50	14	ug/l	5	04/05/07	04/06/07	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5616
(2) Prep QC Batch: MP11642

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	JAX47-937-MW04S		
Lab Sample ID:	F48437-3	Date Sampled:	04/03/07
Matrix:	AQ - Ground Water	Date Received:	04/04/07
		Percent Solids:	n/a
Project:	PSC47-NAS Jax		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	18.3	10	2.8	ug/l	1	04/05/07	04/05/07	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5612
(2) Prep QC Batch: MP11642

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	JAX47-937-MW05S		
Lab Sample ID:	F48437-4	Date Sampled:	04/03/07
Matrix:	AQ - Ground Water	Date Received:	04/04/07
		Percent Solids:	n/a
Project:	PSC47-NAS Jax		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2100	10	2.8	ug/l	1	04/05/07	04/05/07	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA5612
(2) Prep QC Batch: MP11642

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	JAX47-937-MW02S		
Lab Sample ID:	F48437-1	Date Sampled:	04/03/07
Matrix:	AQ - Ground Water	Date Received:	04/04/07
		Percent Solids:	n/a
Project:	PSC47-NAS Jax		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	384	100	10	mg/l	1	04/07/07 08:30	LE	EPA 160.1
Solids, Total Suspended	8.0 I	10	4.0	mg/l	1	04/07/07 08:30	LE	EPA 160.2

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	JAX47-937-MW03S		
Lab Sample ID:	F48437-2	Date Sampled:	04/03/07
Matrix:	AQ - Ground Water	Date Received:	04/04/07
		Percent Solids:	n/a
Project:	PSC47-NAS Jax		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	325	100	10	mg/l	1	04/07/07 08:30	LE	EPA 160.1
Solids, Total Suspended	23.0	10	4.0	mg/l	1	04/07/07 08:30	LE	EPA 160.2

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	JAX47-937-MW04S		
Lab Sample ID:	F48437-3	Date Sampled:	04/03/07
Matrix:	AQ - Ground Water	Date Received:	04/04/07
		Percent Solids:	n/a
Project:	PSC47-NAS Jax		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	362	100	10	mg/l	1	04/07/07 08:30	LE	EPA 160.1
Solids, Total Suspended	4.0 I	10	4.0	mg/l	1	04/07/07 08:30	LE	EPA 160.2

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	JAX47-937-MW05S		
Lab Sample ID:	F48437-4	Date Sampled:	04/03/07
Matrix:	AQ - Ground Water	Date Received:	04/04/07
		Percent Solids:	n/a
Project:	PSC47-NAS Jax		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	572	100	10	mg/l	1	04/07/07 08:30	LE	EPA 160.1
Solids, Total Suspended	12.0	10	4.0	mg/l	1	04/07/07 08:30	LE	EPA 160.2

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result >= MDL but < RL

APPENDIX C
SUPPORT DOCUMENTATION

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F48437

Site: PSC47-NAS Jax **Report Date:** 4/10/2007 11:09:53

4 Samples were collected on 04/03/2007 and were received at Accutest on 04/04/2007 properly preserved, at 0.4 Deg. C and intact. These Samples received an Accutest job number of F48437. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals by Method SW846 6010B

Matrix: AQ **Batch ID:** MP11642

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F48434-1MS, F48434-1MSD, F48434-1SDL, F48434-1DUP were used as the QC samples for metals.

RPD for Duplicate for Arsenic is outside control limits for sample MP11642-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD for Serial Dilution for Arsenic is outside control limits for sample MP11642-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry by Method EPA 160.1

Matrix: AQ **Batch ID:** GN24896

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample F48437-1DUP was used as the QC sample for Solids, Total Dissolved.

Wet Chemistry by Method EPA 160.2

Matrix: AQ **Batch ID:** GN24895

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample F48437-1DUP was used as the QC sample for Solids, Total Suspended.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: April 10, 2007

Ellen Pampel, Inorganic QA (signature on file)

Tuesday, April 10, 2007

TETRA TECH NUS, INC. F48437 CHAIN OF CUSTODY | NUMBER 2536 | PAGE 1 OF 1

PROJECT NO: 112G00497	FACILITY: PSC49-NAS JAX	PROJECT MANAGER Mark Peterson	PHONE NUMBER 904-636-6125	LABORATORY NAME AND CONTACT: Accutest / Jane Smith
SAMPLERS (SIGNATURE) Terry Cotteroir		FIELD OPERATIONS LEADER Terry Cotteroir	PHONE NUMBER 904-636-6125	ADDRESS 4405 Vineland #C-15
		CARRIER/WAYBILL NUMBER Fed Ex (7902-1573-1118)		CITY, STATE Orlando FL 32811

STANDARD TAT ☐
RUSH TAT ☒ ☐ 24 hr. ☐ 48 hr. ☒ 72 hr. ☐ 7 day ☐ 14 day

	DATE YEAR 2007	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS As (Speciation)	As (6010B)	TSS	TDS	COMMENTS
1	4-03	1011	JAX47-937-MW02S				GW	G	2	P	—	✓	✓	✓	✓	3-day TAT
2		0933	JAX47-937-MW03S						2	P	HNO3	✓	✓	✓	✓	
3		1136	JAX47-937-MW04S						2	P	—	✓	✓	✓	✓	
4		1047	JAX47-937-MW05S						2	P	—	✓	✓	✓	✓	Cooled To 4°C on ice

1. RELINQUISHED BY Terry Cotteroir	DATE 4/5/07	TIME 1430	1. RECEIVED BY FX	DATE	TIME
2. RELINQUISHED BY FX	DATE	TIME	2. RECEIVED BY Jorge Corral	DATE 4-4-07	TIME 9:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TINUS-001

0.4

4.1 4

F48437: Chain of Custody
Page 1 of 2

HOLDTIME

SDG F48437

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	JAX47-937-MW05S	F48437-4	NM	4/3/2007	4/5/2007	4/5/2007	2	0	2
M	UG/L	JAX47-937-MW04S	F48437-3	NM	4/3/2007	4/5/2007	4/5/2007	2	0	2
M	UG/L	JAX47-937-MW03S	F48437-2	NM	4/3/2007	4/5/2007	4/6/2007	2	1	3
M	UG/L	JAX47-937-MW02S	F48437-1	NM	4/3/2007	4/5/2007	4/6/2007	2	1	3
TDS	MG/L	JAX47-937-MW05S	F48437-4	NM	4/3/2007	4/7/2007	4/7/2007	4	0	4
TDS	MG/L	JAX47-937-MW04S	F48437-3	NM	4/3/2007	4/7/2007	4/7/2007	4	0	4
TDS	MG/L	JAX47-937-MW03S	F48437-2	NM	4/3/2007	4/7/2007	4/7/2007	4	0	4
TDS	MG/L	JAX47-937-MW02S	F48437-1	NM	4/3/2007	4/7/2007	4/7/2007	4	0	4
TSS	MG/L	JAX47-937-MW05S	F48437-4	NM	4/3/2007	4/7/2007	4/7/2007	4	0	4
TSS	MG/L	JAX47-937-MW04S	F48437-3	NM	4/3/2007	4/7/2007	4/7/2007	4	0	4
TSS	MG/L	JAX47-937-MW03S	F48437-2	NM	4/3/2007	4/7/2007	4/7/2007	4	0	4
TSS	MG/L	JAX47-937-MW02S	F48437-1	NM	4/3/2007	4/7/2007	4/7/2007	4	0	4

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040508.ASC Date Analyzed: 04/05/07 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA5612 Units: ug/l

Time: / Sample ID:			18:46 CCB12		19:27 CCB13		20:08 CCB14		20:50 CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	18	anr							
Antimony	6.0	3.4								
Arsenic	10	2.8	1.9	<10	0.97	<10	4.4	<10	1.5	<10
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	42	anr							
Chromium	10	.6	anr							
Cobalt	50	1	anr							
Copper	25	.9	anr							
Iron	300	12	anr							
Lead	5.0	1.7	anr							
Magnesium	5000	4.3	anr							
Manganese	15	.6	anr							
Molybdenum	50	1.3								
Nickel	40	1	anr							
Potassium	10000	10	anr							
Selenium	10	2	anr							
Silver	10	.9	anr							
Sodium	10000	500	anr							
Thallium	10	2.3	anr							
Tin	50	3.1								
Vanadium	50	.6	anr							
Zinc	20	1.3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

MP11642

Metals Digestion Log: Water

Method of Digestion: SW846 (3010A)/3005A/EPA 200.7/3030C (CIRCLE ONE) Temp: 94° Thermometer ID 306

	Spk. Sol.*	Amount Used*
1	Acc 452	0.5 ml
2	Acc 453	0.25 ml
3	Mix 2373	0.25 ml

Added:** HNO3 HCl

Mfg: Fisher (Baker) Fisher (Baker)

Lot# E01042 550060 Digestion Tube Lot# 3195176812411108

Sample #	Init. Vol/Wt	Fin. Vol/Wt	Date	Comments
MB 04/05/07	50 mL	50 ml	04/05/07	
SB 04/05/07				
MS F48434-1.1				
MSD F48434-1.1				
Dup F48434-1.1				
1 QC F48434-1.1				
2 F48434-2.1				
3 F48434-3.1				
4 F48434-4.1				
5 F48437-1.2				
6 F48437-2.2				
7 F48437-3.2				
8 F48437-4.2				
9 F48336-1.9				
10 F48336-2.9				
11 F48336-3.9				
12 F48336-4.9				
13 F48336-5.9				
14 F48336-1.10A				lab filtered, HSPN24992
15 F48336-2.10A				
16 F48336-3.10A				
17 F48336-4.10A				
18 F48336-5.10A				
19 MB2A 04/05/07				
20	SR 04/05/07			

Analyst Stacey Reed Date 04/05/07

QC Review [signature] Date 04/05/07

* Used For SB, MS, MSD

**For volume of acid added consult SOP MET103, current revision

Rev. 02/06/07 SI Accutest SE

11

6.3.1 6

Instrument Detection Limits

Job Number: F48437
Account: TTNASA Tetra Tech NUS
Project: PSC47-NAS Jax

Instrument ID: TJATRACE2 Effective Date: 11/09/06

Analyte	IDL ug/l
Aluminum	18
Antimony	3.4
Arsenic	2.8
Barium	5
Beryllium	1
Cadmium	1
Calcium	42
Chromium	.6
Cobalt	1
Copper	.9
Iron	12
Lead	1.7
Magnesium	4.3
Manganese	.6
Molybdenum	1.3
Nickel	1
Potassium	10
Selenium	2
Silver	.9
Sodium	500
Thallium	2.3
Tin	3.1
Vanadium	.6
Zinc	1.3

The above applies to the following instrument runs:
MA5612,MA5616

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040508.ASC Date Analyzed: 04/05/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5612
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:58	MA5612-HSTD1	1		
11:00	MA5612-ICV1	1		
11:05	MA5612-ICB1	1		
11:10	MA5612-CRIA1	1		
11:18	MA5612-CRI1	1		
11:22	MA5612-ICSA1	1		
11:24	MA5612-ICSAB1	1		
11:27	MA5612-CCV1	1		
11:31	MA5612-CCB1	1		
11:34	ZZZZZZ	1		
11:37	ZZZZZZ	5		
11:41	ZZZZZZ	5		
11:44	F48422-1	5		(sample used for QC only; not part of login F48437)
11:47	MP11629-D1	5		
11:50	MP11629-S1	5		
11:54	MP11629-S2	5		
11:57	ZZZZZZ	10		
12:00	ZZZZZZ	10		
12:04	ZZZZZZ	10		
12:07	MA5612-CCV2	1		
12:10	MA5612-CCB2	1		
12:13	ZZZZZZ	5		
12:17	MP11632-S1	5		
12:20	MP11632-S2	5		
12:27	ZZZZZZ	10		
12:30	MA5612-CCV3	1		
12:33	MA5612-CCB3	1		
12:47	MP11639-MB1	1		
12:50	MP11639-B1	1		
12:54	F48435-1	1		(sample used for QC only; not part of login F48437)
12:57	MP11639-D1	1		
13:00	MP11639-SD1	5		
13:03	MP11639-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040508.ASC Date Analyzed: 04/05/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5612
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:07	MP11639-S2	1		
13:10	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:20	MA5612-CCV4	1		
13:24	MA5612-CCB4	1		
13:27	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:34	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:40	ZZZZZZ	1		
13:44	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:50	ZZZZZZ	1		
13:54	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:00	MA5612-CCV5	1		
14:04	MA5612-CCB5	1		
14:08	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:24	ZZZZZZ	1		
14:27	MA5612-CCV6	1		
14:31	MA5612-CCB6	1		
14:46	MP11642-MB1	1		
14:49	MP11642-B1	1		
14:53	F48434-1	1		(sample used for QC only; not part of login F48437)
14:56	MP11642-D1	1		
14:59	MP11642-SD1	5		
15:02	MP11642-S1	1		
15:06	MP11642-S2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040508.ASC Date Analyzed: 04/05/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5612
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:09	ZZZZZZ	1		
15:12	ZZZZZZ	1		
15:16	ZZZZZZ	1		
15:19	MA5612-CCV7	1		
15:23	MA5612-CCB7	1		
15:33	F48437-3	1		
15:36	F48437-4	1		
15:39	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:49	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:56	ZZZZZZ	1		
15:59	MA5612-CCV8	1		
16:03	MA5612-CCB8	1		
16:07	ZZZZZZ	1		
16:10	ZZZZZZ	1		
16:13	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:21	MP11642-MB2A	1		
---------->	Last reportable sample/prep for job F48437			
16:24	MP11640-MB1	1		
16:27	MP11640-B1	1		
16:30	F48438-13	1		(sample used for QC only; not part of login F48437)
16:34	MP11640-D1	1		
16:37	MP11640-SD1	5		
16:40	MA5612-CCV9	1		
16:44	MA5612-CCB9	1		
16:48	MP11640-S1	1		
16:51	MP11640-S2	1		
16:54	ZZZZZZ	1		
16:58	ZZZZZZ	1		
17:01	ZZZZZZ	1		
17:04	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040508.ASC Date Analyzed: 04/05/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5612
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:07	ZZZZZZ	1		
17:11	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:17	ZZZZZZ	1		
17:21	MA5612-CCV10	1		
17:25	MA5612-CCB10	1		
17:28	ZZZZZZ	1		
17:31	ZZZZZZ	1		
17:35	ZZZZZZ	1		
17:38	ZZZZZZ	1		
17:41	ZZZZZZ	1		
17:44	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:58	ZZZZZZ	1		
18:01	MA5612-CCV11	1		
18:05	MA5612-CCB11	1		
18:08	ZZZZZZ	1		
18:13	MP11641-MB1	1		
18:16	MP11641-B1	1		
18:22	MP11641-D1	1		
18:26	MP11641-SD1	5		
18:29	MP11641-S1	1		
18:32	MP11641-S2	1		
18:36	ZZZZZZ	1		
18:39	ZZZZZZ	1		
18:42	MA5612-CCV12	1		
18:46	MA5612-CCB12	1		
18:50	ZZZZZZ	1		
18:53	ZZZZZZ	1		
18:56	ZZZZZZ	1		
18:59	ZZZZZZ	1		
19:22	MA5612-CCV13	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040508.ASC Date Analyzed: 04/05/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5612
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:27	MA5612-CCB13	1		
19:51	MP11644-MB1	1		
19:54	MP11644-B1	1		
19:57	F48422-1A	1		(sample used for QC only; not part of login F48437)
20:00	MP11644-D1	1		
20:04	MA5612-CCV14	1		
20:08	MA5612-CCB14	1		
20:11	MP11644-SD1	5		
20:15	MP11644-S1	1		
20:18	ZZZZZZ	1		
20:21	ZZZZZZ	1		
20:24	ZZZZZZ	1		
20:28	ZZZZZZ	1		
20:31	MP11644-D2	1		
20:35	MP11644-MB2	1		
20:38	MP11644-B2	1		
20:43	MP11645-MB1	1		
20:46	MA5612-CCV15	1		
20:50	MA5612-CCB15	1		
20:53	MP11645-B1	1		
20:57	F48227-1	1		(sample used for QC only; not part of login F48437)
21:00	MP11645-D1	1		
21:03	MP11645-SD1	5		
21:07	MP11645-S1	1		
21:11	MP11643-MB1	1		
21:14	MP11643-B1	1		
21:17	F48067-1R	1		(sample used for QC only; not part of login F48437)
21:21	MP11643-D1	1		
21:24	MP11643-SD1	5		
21:27	MA5612-CCV16	1		
21:31	MA5612-CCB16	1		
21:35	MP11643-S1	1		
21:38	MP11643-S2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040508.ASC Date Analyzed: 04/05/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5612
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:41	ZZZZZZ	1		
21:45	ZZZZZZ	1		
21:48	ZZZZZZ	1		
21:51	ZZZZZZ	1		
21:54	ZZZZZZ	1		
21:58	ZZZZZZ	1		
22:01	ZZZZZZ	1		
22:04	ZZZZZZ	1		
22:08	MA5612-CCV17	1		
22:12	MA5612-CCB17	1		
22:15	ZZZZZZ	1		
22:18	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:25	ZZZZZZ	1		
22:28	ZZZZZZ	1		
22:35	ZZZZZZ	1		
22:38	ZZZZZZ	1		
22:42	ZZZZZZ	1		
22:45	ZZZZZZ	1		
22:48	MA5612-CCV18	1		
22:52	MA5612-CCB18	1		
22:56	ZZZZZZ	1		
23:00	MA5612-CRIA2	1		
23:03	MA5612-CRI2	1		
23:06	MA5612-ICSA2	1		
23:10	MA5612-ICSAB2	1		
23:13	MA5612-CCV19	1		
23:17	MA5612-CCB19	1		

----------> Last reportable CCB for job F48437
Refer to raw data for calibration curve and standards.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040608.ASC Date Analyzed: 04/06/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5616
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:19	MA5616-HSTD1	1		
10:25	MA5616-ICV1	1		
10:28	MA5616-ICB1	1		
10:33	MA5616-CRIA1	1		
10:40	MA5616-CRI1	1		
10:42	MA5616-ICSA1	1		
10:46	MA5616-ICSAB1	1		
10:50	MA5616-CCV1	1		
10:56	MA5616-CCB1	1		
10:59	MP11641-MB1	1		
11:03	MP11641-B1	1		
11:07	F48389-1	1		(sample used for QC only; not part of login F48437)
11:10	MP11641-D1	1		
11:13	MP11641-SD1	5		
11:17	MP11641-S1	1		
11:20	MP11641-S2	1		
11:24	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:34	MA5616-CCV2	1		
11:38	MA5616-CCB2	1		
11:41	ZZZZZZ	1		
11:45	ZZZZZZ	1		
11:48	ZZZZZZ	1		
11:51	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:58	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:08	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:14	MA5616-CCV3	1		
12:18	MA5616-CCB3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040608.ASC Date Analyzed: 04/06/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5616
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:22	ZZZZZZ	1		
12:25	ZZZZZZ	50		
12:28	ZZZZZZ	5		
12:32	F48437-1	5		
12:35	F48437-2	5		
---------->	Last reportable sample/prep for job F48437			
12:38	ZZZZZZ	10		
12:41	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:48	ZZZZZZ	500		
12:51	ZZZZZZ	10		
12:55	MA5616-CCV4	1		
13:00	MA5616-CCB4	1		
13:06	MP11653-MB1	1		
13:09	MP11653-B1	1		
13:12	F48227-1	10		(sample used for QC only; not part of login F48437)
13:16	MP11653-D1	10		
13:19	MP11653-SD1	50		
13:22	MP11653-S1	10		
13:25	MA5616-CCV5	1		
13:30	MA5616-CCB5	1		
13:44	MP11654-MB1	1		
13:47	MP11654-B1	1		
13:51	F48304-1	1		(sample used for QC only; not part of login F48437)
13:54	MP11654-D1	1		
13:57	MP11654-SD1	5		
14:00	MP11654-S1	1		
14:04	MP11654-S2	1		
14:07	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:17	MA5616-CCV6	1		
14:21	MA5616-CCB6	1		
14:24	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040608.ASC Date Analyzed: 04/06/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5616
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:26	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:47	ZZZZZZ	1		
14:50	ZZZZZZ	1		
14:53	MA5616-CCV7	1		
14:56	MA5616-CCB7	1		
14:59	ZZZZZZ	1		
15:02	ZZZZZZ	1		
15:05	ZZZZZZ	1		
15:08	ZZZZZZ	1		
15:11	ZZZZZZ	1		
15:14	ZZZZZZ	1		
15:18	MP11655-MB1	1		
15:21	MP11655-B1	1		
15:23	F48304-21	1		(sample used for QC only; not part of login F48437)
15:26	MP11655-D1	1		
15:29	MA5616-CCV8	1		
15:33	MA5616-CCB8	1		
15:36	MP11655-SD1	5		
15:39	MP11655-S1	1		
15:42	MP11655-S2	1		
15:45	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:51	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:56	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:02	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040608.ASC Date Analyzed: 04/06/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5616
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:05	MA5616-CCV9	1		
16:09	MA5616-CCB9	1		
16:12	ZZZZZZ	1		
16:15	ZZZZZZ	1		
16:18	ZZZZZZ	1		
16:21	ZZZZZZ	1		
16:23	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:29	ZZZZZZ	1		
16:32	ZZZZZZ	1		
16:35	ZZZZZZ	1		
16:38	ZZZZZZ	1		
16:41	MA5616-CCV10	1		
16:45	MA5616-CCB10	1		
16:51	ZZZZZZ	1		
16:54	MP11656-MB1	1		
16:57	MP11656-B1	1		
17:00	F48305-10	1		(sample used for QC only; not part of login F48437)
17:03	MP11656-D1	1		
17:06	MP11656-SD1	5		
17:09	MP11656-S1	1		
17:12	MP11656-S2	1		
17:15	ZZZZZZ	1		
17:18	MA5616-CCV11	1		
17:21	MA5616-CCB11	1		
17:24	ZZZZZZ	1		
17:27	ZZZZZZ	1		
17:30	ZZZZZZ	1		
17:33	ZZZZZZ	1		
17:36	ZZZZZZ	1		
17:39	ZZZZZZ	1		
17:42	ZZZZZZ	1		
17:45	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040608.ASC Date Analyzed: 04/06/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5616
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:48	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:53	MA5616-CCV12	1		
17:57	MA5616-CCB12	1		
18:00	ZZZZZZ	1		
18:03	ZZZZZZ	1		
18:06	ZZZZZZ	1		
18:09	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:15	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:21	ZZZZZZ	1		
18:24	MP11657-MB1	1		
18:27	MP11657-B1	1		
18:30	MA5616-CCV13	1		
18:34	MA5616-CCB13	1		
18:37	F48361-1	1		(sample used for QC only; not part of login F48437)
18:40	MP11657-D1	1		
18:43	MP11657-SD1	5		
18:46	MP11657-S1	1		
18:49	MP11657-S2	1		
18:51	ZZZZZZ	1		
18:54	ZZZZZZ	1		
18:57	ZZZZZZ	1		
19:00	ZZZZZZ	1		
19:03	ZZZZZZ	1		
19:06	MA5616-CCV14	1		
19:10	MA5616-CCB14	1		
19:13	ZZZZZZ	1		
19:16	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:22	ZZZZZZ	1		
19:24	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040608.ASC Date Analyzed: 04/06/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5616
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:27	ZZZZZZ	1		
19:30	ZZZZZZ	1		
19:33	ZZZZZZ	1		
19:36	ZZZZZZ	1		
19:39	ZZZZZZ	1		
19:42	MA5616-CCV15	1		
19:46	MA5616-CCB15	1		
19:49	ZZZZZZ	1		
19:52	ZZZZZZ	1		
19:55	ZZZZZZ	1		
19:57	ZZZZZZ	1		
20:01	MP11658-MB1	1		
20:04	MP11658-B1	1		
20:07	F48439-6	1		(sample used for QC only; not part of login F48437)
20:10	MP11658-D1	1		
20:13	MP11658-SD1	5		
20:16	MP11658-S1	1		
20:19	MA5616-CCV16	1		
20:23	MA5616-CCB16	1		
20:26	MP11658-S2	1		
20:28	ZZZZZZ	1		
20:31	ZZZZZZ	1		
20:34	ZZZZZZ	1		
20:37	ZZZZZZ	1		
20:40	ZZZZZZ	1		
20:46	ZZZZZZ	1		
20:49	ZZZZZZ	1		
20:52	ZZZZZZ	1		
20:55	MA5616-CCV17	1		
20:59	MA5616-CCB17	1		
21:02	ZZZZZZ	1		
21:04	ZZZZZZ	1		
21:07	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F48437
Account: TTNASA - Tetra Tech NUS
Project: PSC47-NAS Jax

File ID: IP040608.ASC Date Analyzed: 04/06/07 Methods: SW846 6010B
Analyst: RS Run ID: MA5616
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:10	ZZZZZZ	1		
21:13	ZZZZZZ	1		
21:16	ZZZZZZ	1		
21:19	ZZZZZZ	1		
21:22	ZZZZZZ	1		
21:28	MA5616-CCV18	1		
21:32	MA5616-CCB18	1		
21:35	MA5616-CRIA2	1		
21:38	MA5616-CRI2	1		
21:41	MA5616-ICSA2	1		
21:43	MA5616-ICSAB2	1		
21:46	MA5616-CCV19	1		
21:50	MA5616-CCB19	1		

----------> Last reportable CCB for job F48437
Refer to raw data for calibration curve and standards.

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT		JOB NUMBER	
Jacksonville			
SUBJECT: sample calc			
BASED ON		DRAWING NUMBER	
BY: TLS	CHECKED BY	APPROVED BY	DATE: 4-17-07

Sample JAX47-937-MW055

Arsenic rep. result 2100 ug/L

$$\left(\frac{2.097\ mg}{L}\right)\left(\frac{50ml}{50ml}\right)\left(\frac{1000ug}{1\ mg}\right) = 2097\ ug/L$$

Inst QC: MA5612

Zoom In Zoom Out

Analysis Report Averages 04/06/07 07:33:25 AM page 78

Method: DJM Sample Name: CCB Operator: CRS
Run Time: 04/05/07 15:23 Filename: R040508
Mode: CONC Type: Q Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0358	Q.0031	.0002	-.0011	.0074
SDev	.0008	.0134	.0009	.0001	.0006	.0016
%RSD	2392	37.32	27.23	25.32	58.14	21.09

Elems	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0004	.0000	.0020	.0138	.0543
SDev	0	.0004	.0005	.0003	.015	.0304
%RSD	14.19	97.01	9236	16.48	108.1	55.92

Elems	Mg2790	Mn2576	Mo2020	Na3302	Ni2316	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0044	.0002	.0011	.4240	.0025	.0017
SDev	.002	0	.0015	.6276	.0007	.0011
%RSD	45.15	3.813	143.5	148	26.21	60.46

Elems	Pb2203	Sb2068	Sn1899	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	Q.0056	.0004	.0025	-.0005	-.0005
SDev	.0011	.0047	.0026	.0013	.0008	.0002
%RSD	179.6	84.89	722.5	51.67	173.9	33.97

Elems	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm
Avge	.0014	-.0016	.0052	.0000
SDev	.0022	.0011	.002	.0019
%RSD	164.8	64.64	38.55	39230

Zoom In Zoom Out

Analysis Report Averages 04/06/07 07:33:25 AM page 81

Method: DJM Sample Name: F48437-3 Operator: CRS
Run Time: 04/05/07 15:33 Filename: R040508
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	1.707	.0183	.0240	-.0003	48.30
SDev	.0001	.0242	.0023	.0001	.0005	.6298
%RSD	63.07	1.417	12.66	.6648	144.1	1.304

Elems	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.0006	.0071	.0003	19.08	.5867
SDev	.0001	.0004	.0002	.0002	.1901	.2247
%RSD	10.46	63.13	2.937	86.49	.9961	38.3

Elems	Mg2790	Mn2576	Mo2020	Na3302	Ni2316	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.584	.1429	-.0010	22.89	.0045	.0026
SDev	.044	.0016	.001	.3386	.0008	.0005
%RSD	.9604	1.104	101.5	1.479	17.52	19.3

Elems	Pb2203	Sb2068	Sn1899	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.0052	.0003	.0021	-.0044	.0125	-.0007
SDev	.0005	.0014	.0008	.0009	.0007	.0001
%RSD	10.56	399.5	37.32	21.67	5.282	15.76

Elems	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm
Avge	-.0214	.0030	.0028	.0024
SDev	.0043	.0029	.001	.0006
%RSD	20.07	99.64	34.41	23.73

Zoom In Zoom Out

Analysis Report Averages 04/06/07 07:33:25 AM page 82

Method: DJM Sample Name: F48437-4 Operator: CRS
Run Time: 04/05/07 15:36 Filename: R040508
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.1094	2.097	.0521	-.0000	135.6
SDev	.0001	.0076	.0158	.0001	.0004	.8183
%RSD	16.17	6.917	.7515	.1059	3581	.6037

Elems	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0003	.0012	.0000	23.83	4.524
SDev	.0003	.0001	.0003	.0003	.1476	.0328
%RSD	99.68	26.09	23.02	2759	.6194	.7247

Elems	Mg2790	Mn2576	Mo2020	Na3302	Ni2316	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.05	.1440	.0065	29.05	.0017	.0014
SDev	.0286	.0006	.0006	.461	.0004	.0011
%RSD	.2848	.4509	9.213	1.587	20.5	81.74

Elems	Pb2203	Sb2068	Sn1899	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.0103	.0011	.0010	.0003	.0071	-.0005
SDev	.0006	.0024	.0007	.0044	.0001	.0003
%RSD	6.181	215.2	72.28	1612	2.224	61.32

Elems	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm
Avge	-.0274	-.0018	.0024	.0009
SDev	.0006	.0011	.0026	.0011
%RSD	2.201	61.97	108.3	130.4

Zoom In Zoom Out

Analysis Report Averages 04/06/07 07:33:25 AM page 83

Method: DJM Sample Name: F48336-1 Operator: CRS
Run Time: 04/05/07 15:39 Filename: R040508
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.2666	.0041	.0108	-.0006	56.87
SDev	.0003	.0023	.0012	0	.0002	.3226
%RSD	220.2	.8794	28.72	.3623	33.03	.5672

Elems	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	-.0004	.0012	.0014	.9605	1.146
SDev	.0003	.0001	.0003	.0001	.0022	.022
%RSD	64.49	19.33	22.49	6.156	.227	1.919

Elems	Mg2790	Mn2576	Mo2020	Na3302	Ni2316	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.978	.0078	-.0000	3.265	.0012	-.0004
SDev	.0214	.0001	.0015	.1172	.0004	.0006
%RSD	.5386	1.498	7835	3.59	29.21	163.5

Elems	Pb2203	Sb2068	Sn1899	Tl1908	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	-.0020	.0006	.0006	.0020	.0180
SDev	.0008	.0014	.0017	.0012	.0004	.0001
%RSD	71.41	71.08	272.8	191.7	18.58	.2871

Elems	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm
Avge	.0018	.0009	-.0001	-.0005
SDev	.0008	.0011	.0002	.001
%RSD	43.04	125.6	282.8	189.1

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**FEBRUARY 23, 2007**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
NAS JACKSONVILLE – CTO 047
SDG – BR006-005

SAMPLES: 20/Soil/

JAX47-SB064-01-112806	JAX47-SB064-06-112806
JAX47-SB065-01-112806	JAX47-SB065-06-112806
JAX47-SB066-01-112806	JAX47-SB066-06-112806
JAX47-SB067-01-112806	JAX47-SB067-06-112806
JAX47-SB068-01-112806	JAX47-SB068-07-112806
JAX47-SB069-01-112806	JAX47-SB069-07-112806
JAX47-SB070-01-112806	JAX47-SB070-06-112806
JAX47-SB071-01-112806	JAX47-SB071-06-112806
JAX47-SB072-01-112806	JAX47-SB072-06-112806
JAX47-SB073-01-112806	JAX47-SB073-06-112806

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-005, consists of twenty solid environmental samples.

All of the samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS on November 28, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using SW-846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Result
* • Matrix Spike Recoveries
* • Laboratory Control Sample Recoveries
• Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminant was detected in the laboratory method/preparation blanks at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Arsenic	2.24 µg/L	0.56 mg/kg

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Arsenic was qualified due to laboratory blank contamination.

Notes

Non-detected arsenic results were not reported down to both the method detection limit (MDL) and the method reporting limit (MRL) on Form I reports as requested in the laboratory scope-of-work and required by the state of Florida. Non-detects were reported down to the MRL on Form I reports. The laboratory correctly reported the non-detected arsenic results down to the MDL in the electronic data deliverable (EDD).

The arsenic result on the laboratory method blank form was not reported down to the MDL.

The laboratory only reported to one significant figure for all non-detected results.

Sample JAX47-SB065-01-112806 was analyzed at a 5X dilution due to matrix interference according to the laboratory. The elevated detection limit for the non-detected arsenic result in sample JAX47-SB065-01-112806 is due to the 5X dilution.

Executive Summary

Laboratory Performance: Arsenic was qualified due to laboratory blank contamination.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", July 2002, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-005 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB064-01-112806	nsample	JAX47-SB064-06-112806	nsample	JAX47-SB065-01-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610306-01	lab_id	B610306-02	lab_id	B610306-03RE1
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.3	Pct_Solids	90.7	Pct_Solids	95.9
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	1	U	

PROJ_NO: 00497

SDG: BR006-005 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB065-06-112806	nsample	JAX47-SB066-01-112806	nsample	JAX47-SB066-06-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610306-04	lab_id	B610306-05	lab_id	B610306-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	88.3	Pct_Solids	95.5	Pct_Solids	86.7
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

PROJ_NO: 00497

SDG: BR006-005 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB067-01-112806	nsample	JAX47-SB067-06-112806	nsample	JAX47-SB068-01-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610306-07	lab_id	B610306-08	lab_id	B610306-09
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	97.0	Pct_Solids	80.4	Pct_Solids	97.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.9		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.9		

PROJ_NO: 00497

SDG: BR006-005 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB068-07-112806	nsample	JAX47-SB069-01-112806	nsample	JAX47-SB069-07-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610306-10	lab_id	B610306-11	lab_id	B610306-12
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	89.9	Pct_Solids	95.8	Pct_Solids	87.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	16.9		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.6		

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.1		

PROJ_NO: 00497

SDG: BR006-005 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB070-01-112806	nsample	JAX47-SB070-06-112806	nsample	JAX47-SB071-01-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610306-13	lab_id	B610306-14	lab_id	B610306-15
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.4	Pct_Solids	94.9	Pct_Solids	98.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.9		

Parameter	Result	Val Qual	Qual Code
ARSENIC	6.8		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.6		

PROJ_NO: 00497

SDG: BR006-005 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB071-06-112806	nsample	JAX47-SB072-01-112806	nsample	JAX47-SB072-06-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610306-16	lab_id	B610306-17	lab_id	B610306-18
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	83.9	Pct_Solids	92.8	Pct_Solids	92.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	3		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

PROJ_NO: 00497

SDG: BR006-005 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB073-01-112806	nsample	JAX47-SB073-06-112806
samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610306-19	lab_id	B610306-20
qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG
Pct_Solids	94.1	Pct_Solids	92.1
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.5	U	A

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB064-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-01 | File ID: 122106a-079

Sampled: 11/28/06 14:01 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 00:53

Solids: 96.28 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.3	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB064-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-02 | File ID: 122106a-080

Sampled: 11/28/06 14:16 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 01:00

Solids: 90.70 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.2	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB065-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-03RE1 | File ID: 122206a-011

Sampled: 11/28/06 10:08 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 14:12

Solids: 95.87 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00117 | Calibration: 0612018 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	2.6	5	UD	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB065-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-04 | File ID: 122106a-082

Sampled: 11/28/06 10:16 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 01:15

Solids: 88.25 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.2	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB066-01-112806

Laboratory: ENCO Jacksonville SDG: BR006-005

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610306-05 File ID: 122106a-083

Sampled: 11/28/06 09:38 Prepared: 12/15/06 14:21 Analyzed: 12/22/06 01:21

Solids: 95.51 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15014 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB066-06-112806

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610306-06
File ID: 122106a-084
Sampled: 11/28/06 09:50
Prepared: 12/15/06 14:21
Analyzed: 12/22/06 01:29
Solids: 86.68
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 6L15014
Sequence: BA00116
Calibration: 0612017
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB067-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-07 | File ID: 122106a-088

Sampled: 11/28/06 15:49 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 01:56

Solids: 96.98 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB067-06-112806

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610306-08
File ID: 122106a-089
Sampled: 11/28/06 15:56
Prepared: 12/15/06 14:21
Analyzed: 12/22/06 02:03
Solids: 80.44
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 6L15014
Sequence: BA00116
Calibration: 0612017
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB068-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-09 | File ID: 122106a-090

Sampled: 11/28/06 11:47 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 02:10

Solids: 97.02 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB068-07-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-10 | File ID: 122106a-091

Sampled: 11/28/06 13:11 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 02:17

Solids: 89.92 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	16.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB069-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-11 | File ID: 122106a-092

Sampled: 11/28/06 11:23 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 02:23

Solids: 95.79 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB069-07-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-12 | File ID: 122106a-093

Sampled: 11/28/06 11:36 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 02:30

Solids: 87.35 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	3.1	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB070-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-13 | File ID: 122106a-094

Sampled: 11/28/06 10:27 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 02:37

Solids: 96.36 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	3.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB070-06-112806

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610306-14
File ID: 122106a-095
Sampled: 11/28/06 10:46
Prepared: 12/15/06 14:21
Analyzed: 12/22/06 02:44
Solids: 94.88
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 6L15014
Sequence: BA00116
Calibration: 0612017
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	6.8	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB071-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-15 | File ID: 122106a-096

Sampled: 11/28/06 15:39 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 02:51

Solids: 98.51 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB071-06-112806

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610306-16
File ID: 122106a-097
Sampled: 11/28/06 16:02
Prepared: 12/15/06 14:21
Analyzed: 12/22/06 02:58
Solids: 83.89
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 6L15014
Sequence: BA00116
Calibration: 0612017
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	3.0	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB072-01-112806

Laboratory: ENCO Jacksonville SDG: BR006-005

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610306-17 File ID: 122106a-101

Sampled: 11/28/06 13:40 Prepared: 12/15/06 14:21 Analyzed: 12/22/06 03:25

Solids: 92.79 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15014 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB072-06-112806

Laboratory: ENCO Jacksonville SDG: BR006-005

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610306-18 File ID: 122106a-102

Sampled: 11/28/06 13:50 Prepared: 12/15/06 14:21 Analyzed: 12/22/06 03:33

Solids: 92.28 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15014 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB073-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-19 | File ID: 122106a-103

Sampled: 11/28/06 14:52 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 03:40

Solids: 94.06 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB073-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-005

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610306-20 | File ID: 122106a-104

Sampled: 11/28/06 16:24 | Prepared: 12/15/06 14:21 | Analyzed: 12/22/06 03:47

Solids: 92.12 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15014 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	J	EPA 6010B

APPENDIX C
SUPPORT DOCUMENTATION

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-295-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/28/2006	JAX47-SB064-01-112806 V	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806 V	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806 V	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806 V	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806 V	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806 V	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806 V	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806 V	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806 V	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806 V	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806 V	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806 V	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806 V	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chad McG	11-30-06	1130	[illegible]	11/30/06	1135
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

HOLDTIME

SDG BR006-005

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB069-01-112806	B610306-11	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB064-06-112806	B610306-02	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB065-01-112806	B610306-03RE1	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB065-06-112806	B610306-04	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB066-01-112806	B610306-05	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB066-06-112806	B610306-06	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB067-01-112806	B610306-07	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB067-06-112806	B610306-08	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB064-01-112806	B610306-01	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB068-07-112806	B610306-10	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB073-06-112806	B610306-20	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB069-07-112806	B610306-12	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB070-01-112806	B610306-13	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB070-06-112806	B610306-14	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB071-01-112806	B610306-15	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB071-06-112806	B610306-16	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB072-01-112806	B610306-17	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB072-06-112806	B610306-18	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB073-01-112806	B610306-19	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24
M	MG/KG	JAX47-SB068-01-112806	B610306-09	NM	11/28/2006	12/15/2006	12/22/2006	17	7	24

ORGANIC CASE NARRATIVE

Tetra Tech NUS, Inc/NAS JACKSONVILLE CTO 047

Project Manger Mark Peterson

SDG BR006-015

Lab Sample ID	Client Sample ID
B610306-01	JAX47-SB064-01-112806
B610306-02	JAX47-SB064-06-112806
B610306-03	JAX47-SB065-01-112806
B610306-04	JAX47-SB065-06-112806
B610306-05	JAX47-SB066-01-112806
B610306-06	JAX47-SB066-06-112806
B610306-07	JAX47-SB067-01-112806
B610306-08	JAX47-SB067-06-112806
B610306-09	JAX47-SB068-01-112806
B610306-10	JAX47-SB068-07-112806
B610306-11	JAX47-SB069-01-112806
B610306-12	JAX47-SB069-07-112806
B610306-13	JAX47-SB070-01-112806
B610306-14	JAX47-SB070-06-112806
B610306-15	JAX47-SB071-01-112806
B610306-16	JAX47-SB071-06-112806
B610306-17	JAX47-SB072-01-112806
B610306-18	JAX47-SB072-06-112806
B610306-19	JAX47-SB073-01-112806
B610306-20	JAX47-SB073-06-112806

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by 6010B Method for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- JAX47-SB065-01-112806 was re-run as a dilution due to matrix interference.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: CN = Christina Tompkins, C = US
Date: 2006.12.29 16:59:00 -05'00'

Christina M. Tompkins
Project Manager

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB064-01-112806	B610306-01
JAX47-SB064-06-112806	B610306-02
JAX47-SB065-01-112806	B610306-03
JAX47-SB065-01-112806	B610306-03RE1
JAX47-SB065-06-112806	B610306-04
JAX47-SB066-01-112806	B610306-05
JAX47-SB066-06-112806	B610306-06
JAX47-SB067-01-112806	B610306-07
JAX47-SB067-06-112806	B610306-08
JAX47-SB068-01-112806	B610306-09
JAX47-SB068-07-112806	B610306-10
JAX47-SB069-01-112806	B610306-11
JAX47-SB069-07-112806	B610306-12
JAX47-SB070-01-112806	B610306-13
JAX47-SB070-06-112806	B610306-14
JAX47-SB071-01-112806	B610306-15
JAX47-SB071-06-112806	B610306-16
JAX47-SB072-01-112806	B610306-17
JAX47-SB072-06-112806	B610306-18
JAX47-SB073-01-112806	B610306-19
JAX47-SB073-06-112806	B610306-20

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: CN = Christina Tompkins, C = US Date: 2006.12.29 16:59:28 -05'00'
Name: Christina M Tompkins

Date: 12-28-06
Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-005

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	0.2	0.5	mg/kg

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612017
Control Limt: +/- 10.00%
Sequence: BA00116

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00116-ICV1	Arsenic	0.500	0.490	98	mg/L	EPA 6010B
BA00116-CCV5	Arsenic	0.500	0.488	98	mg/L	EPA 6010B
BA00116-CCV6	Arsenic	0.500	0.487	97	mg/L	EPA 6010B
BA00116-CCV7	Arsenic	0.500	0.478	96	mg/L	EPA 6010B
BA00116-CCV8	Arsenic	0.500	0.479	96	mg/L	EPA 6010B
BA00116-CCV9	Arsenic	0.500	0.474	95	mg/L	EPA 6010B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612018
Control Limt: +/- 10.00%
Sequence: BA00117

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00117-ICV1	Arsenic	0.500	0.504	101	mg/L	EPA 6010B
BA00117-CCV1	Arsenic	0.500	0.505	101	mg/L	EPA 6010B

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612017
Sequence: BA00116

Lab Sample ID	Analyte	True	Found	%R	Units
BA00116-IFA1	Arsenic	1.00	1.00	100	mg/L
	Arsenic	1.00	1.00	100	mg/L

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612018
Sequence: BA00117

Lab Sample ID	Analyte	True	Found	%R	Units
BA00117-IFA1	Arsenic	1.00	1.01	101	mg/L
	Arsenic	1.00	1.01	101	mg/L

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX47-SB064-01-112806

Laboratory:	ENCO Jacksonville	SDG:	BR006-005
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L15014	Laboratory ID:	6L15014-MS1
Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL

Source Sample Name: JAX47-SB064-01-112806

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Arsenic	51.9	0.264	43.5	83	80-120

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	51.9	43.4	83	0.4	20	80-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-005
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L15014	Laboratory ID:	6L15014-BS1
Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Arsenic	50.0	47.2	94	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville		SDG:	BR006-005	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L15014-BLK1	File ID:	122106a-075
Prepared:	12/15/06 14:21	Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL
Analyzed:	12/22/06 00:27	Instrument:	JMICP1		
Batch:	6L15014	Sequence:	BA00116	Calibration:	0612017

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7440-38-2	Arsenic	0.5	U

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00116
Calibration: 0612017

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00116-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00116-CCB5	Arsenic	0.00152	0.01	mg/L		EPA 6010B
6L15014-BLK1	Arsenic	0.0829	0.5	mg/kg wet		EPA 6010B
BA00116-CCB6	Arsenic	-0.000318	0.01	mg/L		EPA 6010B
BA00116-CCB7	Arsenic	0.000808	0.01	mg/L		EPA 6010B
BA00116-CCB8	Arsenic	0.00224	0.01	mg/L		EPA 6010B
BA00116-CCB9	Arsenic	-7.05E-5	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-005
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00117
Calibration: 0612018

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00117-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00117-CCB1	Arsenic	-9.07E-5	0.01	mg/L		EPA 6010B

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-005

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L15014 Batch Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L15014-BLK1	122106a-075	12/15/06 14:21	
LCS	6L15014-BS1	122106a-076	12/15/06 14:21	
JAX47-SB064-01-112806	6L15014-MS1	122106a-077	12/15/06 14:21	
JAX47-SB064-01-112806	6L15014-MSD1	122106a-078	12/15/06 14:21	
JAX47-SB064-01-112806	B610306-01	122106a-079	12/15/06 14:21	
JAX47-SB064-06-112806	B610306-02	122106a-080	12/15/06 14:21	
JAX47-SB065-01-112806	B610306-03RE1	122206a-011	12/15/06 14:21	Added 12/22/2006 by BBV
JAX47-SB065-06-112806	B610306-04	122106a-082	12/15/06 14:21	
JAX47-SB066-01-112806	B610306-05	122106a-083	12/15/06 14:21	
JAX47-SB066-06-112806	B610306-06	122106a-084	12/15/06 14:21	
JAX47-SB067-01-112806	B610306-07	122106a-088	12/15/06 14:21	
JAX47-SB067-06-112806	B610306-08	122106a-089	12/15/06 14:21	
JAX47-SB068-01-112806	B610306-09	122106a-090	12/15/06 14:21	
JAX47-SB068-07-112806	B610306-10	122106a-091	12/15/06 14:21	
JAX47-SB069-01-112806	B610306-11	122106a-092	12/15/06 14:21	
JAX47-SB069-07-112806	B610306-12	122106a-093	12/15/06 14:21	
JAX47-SB070-01-112806	B610306-13	122106a-094	12/15/06 14:21	
JAX47-SB070-06-112806	B610306-14	122106a-095	12/15/06 14:21	
JAX47-SB071-01-112806	B610306-15	122106a-096	12/15/06 14:21	
JAX47-SB071-06-112806	B610306-16	122106a-097	12/15/06 14:21	
JAX47-SB072-01-112806	B610306-17	122106a-101	12/15/06 14:21	
JAX47-SB072-06-112806	B610306-18	122106a-102	12/15/06 14:21	
JAX47-SB073-01-112806	B610306-19	122106a-103	12/15/06 14:21	
JAX47-SB073-06-112806	B610306-20	122106a-104	12/15/06 14:21	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-005
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00116	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0612017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00116-ICB1	122106a-001	12/21/06 16:01
Cal Standard	BA00116-CAL1	122106a-002	12/21/06 16:07
Instrument Blank	BA00116-IBL1	122106a-003	12/21/06 16:15
Low Cal Check	BA00116-LCV1	122106a-004	12/21/06 16:22
Secondary Cal Check	BA00116-SCV1	122106a-005	12/21/06 16:28
Initial Cal Check	BA00116-ICV1	122106a-006	12/21/06 16:35
Interference Check A	BA00116-IFA1	122106a-008	12/21/06 16:48
Calibration Blank	BA00116-CCB5	122106a-073	12/22/06 00:13
Calibration Check	BA00116-CCV5	122106a-074	12/22/06 00:20
Blank	6L15014-BLK1	122106a-075	12/22/06 00:27
LCS	6L15014-BS1	122106a-076	12/22/06 00:33
JAX47-SB064-01-112806	6L15014-MS1	122106a-077	12/22/06 00:40
JAX47-SB064-01-112806	6L15014-MSD1	122106a-078	12/22/06 00:46
JAX47-SB064-01-112806	B610306-01	122106a-079	12/22/06 00:53
JAX47-SB064-06-112806	B610306-02	122106a-080	12/22/06 01:00
JAX47-SB065-06-112806	B610306-04	122106a-082	12/22/06 01:15
JAX47-SB066-01-112806	B610306-05	122106a-083	12/22/06 01:21
JAX47-SB066-06-112806	B610306-06	122106a-084	12/22/06 01:29
Calibration Blank	BA00116-CCB6	122106a-086	12/22/06 01:43
Calibration Check	BA00116-CCV6	122106a-087	12/22/06 01:49
JAX47-SB067-01-112806	B610306-07	122106a-088	12/22/06 01:56
JAX47-SB067-06-112806	B610306-08	122106a-089	12/22/06 02:03
JAX47-SB068-01-112806	B610306-09	122106a-090	12/22/06 02:10
JAX47-SB068-07-112806	B610306-10	122106a-091	12/22/06 02:17
JAX47-SB069-01-112806	B610306-11	122106a-092	12/22/06 02:23
JAX47-SB069-07-112806	B610306-12	122106a-093	12/22/06 02:30
JAX47-SB070-01-112806	B610306-13	122106a-094	12/22/06 02:37
JAX47-SB070-06-112806	B610306-14	122106a-095	12/22/06 02:44
JAX47-SB071-01-112806	B610306-15	122106a-096	12/22/06 02:51
JAX47-SB071-06-112806	B610306-16	122106a-097	12/22/06 02:58
Calibration Blank	BA00116-CCB7	122106a-099	12/22/06 03:12
Calibration Check	BA00116-CCV7	122106a-100	12/22/06 03:19

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-005
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00116	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0612017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB072-01-112806	B610306-17	122106a-101	12/22/06 03:25
JAX47-SB072-06-112806	B610306-18	122106a-102	12/22/06 03:33
JAX47-SB073-01-112806	B610306-19	122106a-103	12/22/06 03:40
JAX47-SB073-06-112806	B610306-20	122106a-104	12/22/06 03:47
Calibration Blank	BA00116-CCB8	122106a-112	12/22/06 04:41
Calibration Check	BA00116-CCV8	122106a-113	12/22/06 04:48
Calibration Blank	BA00116-CCB9	122106a-124	12/22/06 06:03
Calibration Check	BA00116-CCV9	122106a-125	12/22/06 06:09

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-005
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00117	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0612018

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00117-ICB1	122206a-001	12/22/06 13:03
Cal Standard	BA00117-CAL1	122206a-002	12/22/06 13:09
Instrument Blank	BA00117-IBL1	122206a-003	12/22/06 13:16
Low Cal Check	BA00117-LCV1	122206a-004	12/22/06 13:23
Secondary Cal Check	BA00117-SCV1	122206a-005	12/22/06 13:30
Initial Cal Check	BA00117-ICV1	122206a-006	12/22/06 13:36
Interference Check A	BA00117-IFA1	122206a-008	12/22/06 13:50
JAX47-SB065-01-112806	B610306-03RE1	122206a-011	12/22/06 14:12
Calibration Blank	BA00117-CCB1	122206a-013	12/22/06 14:26
Calibration Check	BA00117-CCV1	122206a-014	12/22/06 14:30

Prepared: 15-Dec-06 11:11 | 6L15009 | Printed: 12/15/06 11:12:16AM

ENCO Jacksonville

Matrix: Soil

Prepared using: METALS - EPA 3050B

Sample ID	Sample ID . Source Sample and Location	AMT DIGESTED mL g L	Final Vol (mL)	Due Date	Spike Amount uL 1 | 2	Comments
6L15009-BLK1	Blank	1	50		|	95C
6L15009-BS1	LCS	1	50		500 | 500	
6L15009-MS1	Matrix Spike [B610307-01]	1.00			500 | 500	
6L15009-MSD1	Matrix Spike Dup [B610307-01]	1.00			500 | 500	
B610307-01	JAX47-SB074-01-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	MS
B610307-02	JAX47-SB074-06-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-03	JAX47-SB075-01-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-04	JAX47-SB075-06-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-05	JAX47-SB076-01-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-06	JAX47-SB076-06-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-07	JAX47-SB077-01-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-08	JAX47-SB077-06-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-09	JAX47-SB094-01-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-10	JAX47-SB094-06-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-11	JAX47-SB095-01-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-12	JAX47-SB095-06-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-13	JAX47-SB097-01-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-14	JAX47-SB097-06-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-15	JAX47-SB084-01-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-16	JAX47-SB084-05-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-17	JAX47-SB085-01-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-18	JAX47-SB085-05-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-19	JAX47-SB086-01-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-20	JAX47-SB086-06-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	

Standard(s):
B6110156 ICP Spike A / QCS-1 500 uL

Standard ID#	Description	Manufacture Lot#

B6110158 ICP Spike B / QCS-1 500 uL

Prepared By 12-15-06 Date

Preparation Reviewed By Date

Percent Solids via ENCO SOP WETS/72

Workgroup: 6L19013
Product: Solids, Dry Weight
Department: WETCHEM
Balance ID: AG285

Prep Date: 12/19/2006 14:55
Date Analyzed : 12/19/2006 16:21
Analyst(s): JAL

Lab ID	Sample Tag	Tin	Tin Wt. (g)	Tin+Sample (wet) (g)	Sample Wt (wet) (g)	Tin+Sample (dry) (g)	Sample Wt (dry) (g)	% Solids
6L19013-DUP1		1	2.5981	8.9979	6.3998	8.7700	6.1719	96.4390
B610306-01		2	2.5994	8.9431	6.3437	8.7070	6.1076	96.2782
B610306-02		3	2.5990	8.8456	6.2466	8.2647	5.6657	90.7005
B610306-03		4	2.6012	9.2167	6.6155	8.9438	6.3426	95.8748
B610306-04		5	2.6139	14.8758	12.2619	13.4353	10.8214	88.2522
B610306-05		6	2.6102	9.2027	6.5925	8.9068	6.2966	95.5116
B610306-06		7	2.5943	10.8097	8.2154	9.7153	7.1210	86.6787
B610306-07		8	2.5991	8.9833	6.3842	8.7906	6.1915	96.9816
B610306-08		9	2.6181	12.0931	9.4750	10.2398	7.6217	80.4401
B610306-09		10	2.6012	9.3372	6.7360	9.1365	6.5353	97.0205
B610306-10		11	2.6132	14.3425	11.7293	13.1601	10.5469	89.9193
B610306-11		12	2.5591	9.1172	6.5581	8.8414	6.2823	95.7945
B610306-12		13	2.5761	15.4423	12.8662	13.8141	11.2380	87.3451
B610306-13		14	2.5769	10.3547	7.7778	10.0718	7.4949	96.3627
B610306-14		15	2.5725	13.5872	11.0147	13.0237	10.4512	94.8841
B610306-15		16	2.5819	11.0205	8.4386	10.8948	8.3129	98.5104
B610306-16		17	2.5811	20.0999	17.5188	17.2774	14.6963	83.8887
B610306-17		18	2.6028	13.8741	11.2713	13.0613	10.4585	92.7888
B610680-06		19	2.6031	14.4070	11.8039	13.4421	10.8390	91.8256
B610816-02		20	2.6166	15.9759	13.3593	14.8678	12.2512	91.7054
CVS	(20 grams)				20.0001		20.0001	

Sample Duplicate: B610306-01
%RPD:

Oven ID: 1
Thermometer ID: 32

Initial Oven Temperature (degrees Celsius): 100.9
Initial Oven In Date/ Time: 12/19/2006 14:55

Final Oven Temperature (degrees Celsius): 101.4
Final Oven Out Date/ Time: 16:00

Comments:

Percent Solids via ENCO SOP WETS/72

Workgroup: 6L19012
Product: Solids, Dry Weight
Department: WETCHEM
Balance ID: AG285

Prep Date: 12/19/2006 14:03
Date Analyzed : 12/19/2006 15:54
Analyst(s): JAL

Lab ID	Sample Tag	Tin	Tin Wt. (g)	Tin+Sample (wet) (g)	Sample Wt (wet) (g)	Tin+Sample (dry) (g)	Sample Wt (dry) (g)	% Solids
6L19012-DUP1		1	2.5606	10.6156	8.0550	10.0394	7.4788	92.8467
B610306-18		2	2.5871	10.6189	8.0318	9.9992	7.4121	92.2844
B610306-19		3	2.6366	9.0772	6.4406	8.6945	6.0579	94.0580
B610306-20		4	2.6390	10.2754	7.6364	9.6734	7.0344	92.1167
B610307-01		5	2.5453	11.0750	8.5297	10.6725	8.1272	95.2812
B610307-02		6	2.6108	14.1988	11.5880	12.3110	9.7002	83.7090
B610307-03		7	2.6194	8.7073	6.0879	8.6252	6.0058	98.6514
B610307-04		8	2.6804	13.5365	10.9561	12.5372	9.9568	90.8791
B610307-05		9	2.6139	9.1015	6.4876	8.7200	6.1061	94.1196
B610307-06		10	2.6448	13.7081	11.0633	12.5964	9.9516	89.9515
B610307-07		11	2.6167	10.8278	8.2111	10.3907	7.7740	94.6767
B610307-08		12	2.6478	13.2089	10.5611	12.2145	9.5667	90.5843
B610307-09		13	2.6073	10.9953	8.3880	10.7483	8.1410	97.0553
B610307-10		14	2.6115	13.1328	10.5213	11.4057	8.7942	83.5847
B610307-11		15	2.5955	10.2143	7.6188	9.8132	7.2177	94.7354
B610307-12		16	2.5955	13.0639	10.4684	11.3685	8.7730	83.8046
B610307-13		17	2.6058	11.3467	8.7409	10.9631	8.3573	95.6114
B610307-14		18	2.6290	13.3353	10.7063	11.2590	8.6300	80.6067
B610307-15		19	2.5454	10.7272	8.1818	10.4179	7.8725	96.2197
B610307-16		20	2.5889	11.5690	8.9801	10.7501	8.1612	90.8809
B610307-17		21	2.5293	8.5752	6.0459	7.6343	5.1050	84.4374
CVS	(20 grams)				20.0001		20.0001	

Sample Duplicate: B610306-18
%RPD:

Oven ID: 1
Thermometer ID: 32

Initial Oven Temperature (degrees Celsius): 101.2
Initial Oven In Date/ Time: 12/19/2006 14:03

Final Oven Temperature (degrees Celsius): 100
Final Oven Out Date/ Time: 12/19/2006 15:16

Comments:

SRV: JAX47-SB067-01-112806 [As] = 1.9 mg/kg as reported by the laboratory.

Se 196.026	1,115.2	0.4759	0.00345	mg/L	0.4759	0.72 %
2006/12/22 01:49:40 QC value within limits for Se 196.026 Recovery = 95.18%						
Sn 189.933	2,828.0	0.4643	0.00336	mg/L	0.4643	0.72 %
2006/12/22 01:49:40 QC value within limits for Sn 189.933 Recovery = 92.87%						
Sr 421.539R	410,272.8	0.4825	0.01729	mg/L	0.4825	3.58 %
2006/12/22 01:49:40 QC value within limits for Sr 421.539R Recovery = 96.50%						
Ti 337.280	181,696.8	0.2375	0.00090	mg/L	0.2375	0.38 %
2006/12/22 01:49:40 QC value within limits for Ti 337.280 Recovery = 95.00%						
Tl 190.800	1,164.2	0.4793	0.00151	mg/L	0.4793	0.31 %
2006/12/22 01:49:40 QC value within limits for Tl 190.800 Recovery = 95.86%						
V 292.402	127,556.6	0.4829	0.00202	mg/L	0.4829	0.42 %
2006/12/22 01:49:40 QC value within limits for V 292.402 Recovery = 96.58%						
Zn 206.191	22,113.2	0.4777	0.00245	mg/L	0.4777	0.51 %
2006/12/22 01:49:40 QC value within limits for Zn 206.191 Recovery = 95.54%						

Mean Data

ID: b610306-07 **Seq. No.:** 88 **A/S Pos:** 82

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2006/12/22 01:54:19

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	225,684.3	99.4	0.86	%			%	0.87 %
Y361.105A	1,444,162.8	98.6	0.55	%			%	0.56 %
Ag 338.289	-1,655.7	-0.0068	0.00026	mg/L	-0.0068	0.00026	mg/L	3.77 %
Ag 328.068	-2,489.5	-0.0052	0.00014	mg/L	-0.0052	0.00014	mg/L	2.74 %
Al 308.215	289,734.7	113	4.2	mg/L	113	4.2	mg/L	3.72 %
As 188.979	82.6	0.0372	0.00180	mg/L	0.0372	0.00180	mg/L	4.85 %
Ba 233.527	34,622.0	0.2084	0.00119	mg/L	0.2084	0.00119	mg/L	0.57 %
Be 313.107	7,913.6	0.0011	0.00003	mg/L	0.0011	0.00003	mg/L	2.89 %
B 208.959	257.0	0.0146	0.00093	mg/L	0.0146	0.00093	mg/L	6.38 %
Ca 317.933	7,929,204.0	33.31	0.109	mg/L	33.31	0.109	mg/L	0.33 %
Ca Radial	865,687.1	33.30	1.363	mg/L	33.30	1.363	mg/L	4.09 %
Cd 226.502	2,052.9	0.0054	0.00034	mg/L	0.0054	0.00034	mg/L	6.30 %
Co 228.616	297.1	0.0040	0.00031	mg/L	0.0040	0.00031	mg/L	7.81 %
Cr 267.716	28,127.1	0.1812	0.00120	mg/L	0.1812	0.00120	mg/L	0.66 %

$$\frac{0.0372\ mg}{L} \cdot \frac{0.05\ L}{1.00\ g} \cdot \frac{1000\ g}{1\ kg} \cdot \frac{1}{0.97} = 1.92\ mg/kg$$

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MARK PETERSON** **DATE:** **MARCH 6, 2007**

FROM: **PRESTON SMITH** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- PEST**
CTO 047, NAS JACKSONVILLE
SDG BR006-006

SAMPLES: 12/Soil

JAX47-SB084-01-112906	JAX47-SB084-05-112906
JAX47-SB085-01-112906	JAX47-SB085-05-112906
JAX47-SB086-01-112906	JAX47-SB086-06-112906
JAX47-SB094-01-112806	JAX47-SB094-06-112806
JAX47-SB095-01-112806	JAX47-SB095-06-112806
JAX47-SB097-01-112806	JAX47-SB097-06-112806

OVERVIEW

The sample set for CTO 047, NAS Jacksonville, SDG BR006-006 consists of twelve (12) environmental soil samples. All above soil samples were analyzed for Target Compound List (TCL) organochlorine pesticides (PEST).

The samples were collected by TetraTech NUS on November 28 and 29, 2006 and analyzed by Environmental Conservation Laboratories, Inc. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8081A analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
• Holding times
• Initial and continuing calibration
• Blank results
• Surrogate spike recoveries
* • Blank Spike/Blank Spike Duplicate Results
• Matrix Spike/Matrix Spike Duplicate Results
* • Detection Limits
* • Compound Quantitation
* • Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Pesticides

The laboratory reported down to Method Reporting Limits (MRL) on all Form Is for all compounds instead of to Method Detection Limits (MDLs). However, MDLs were included in the database for all compounds and these limits were used for validation.

The holding time limit of 14 days for sample extraction was exceeded for sample JAX47-SB086-06-112906. Positive and nondetect results in the sample were qualified estimated (J) and (UJ) for this noncompliance.

The following compounds was detected in the method blank prepared on 12/14/06 on column 1 and column 2 at the following maximum concentration:

Compound	Maximum Concentration	Action Level
4,4'DDT	0.300 ug/kg	1.50 ug/kg

An action level of 5X the maximum contaminant concentration was established to evaluate blank contamination for this compound.

Only sample JAX47-SB086-06-112906 was affected buy this noncompliance and was qualified nondetect (U) for blank contamination.

The dual column confirmation was noncompliant for at least one compound analyzed for every sample with the exception of JAX47-SB094-06-112806. The affected compounds in all other samples were qualified as estimated (J).

The continuing calibration performed on 12/14/06 at 03:47 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor on column 1. Samples JAX47-SB095-06-112806 and JAX47-SB097-01-112806 had a positive result for methoxychlor reported on column 1 and were qualified estimated (J) for this noncompliance.

The continuing calibration performed on 12/14/06 at 08:33 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for and 4,4'DDT and methoxychlor on column 1 and methoxychlor on column 2. No actions were taken as no positive results were reported for 4,4'DDT in any of the samples and because the noncompliance occurred on only one column. Positive results for methoxychlor were qualified estimated (J) and nondetect results were qualified estimated (UJ) in the associated samples for this noncompliance.

The continuing calibration performed on 12/20/06 at 11:59 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for and 4,4'DDT on column 1 and on column 2. No action was taken due qualification for other noncompliance on sample JAX47-SB086-06-112906. Furthermore, %Ds exceeded the 15% quality control criterion for alpha-BHC, gamma- BHC, beta- BHC, delta- BHC, heptachlor, aldrin, heptachlor epoxide, chlordane-gamma, chlordane-alpha and endrin ketone. No actions were taken because this noncompliance occurred on only column 2.

The continuing calibration performed on 12/20/06 at 16:23 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for 4,4'DDT on column 1 and on column 2. No action was taken for this noncompliance in sample JAX47-SB086-06-112906.

The continuing calibration performed on 12/27/06 at 10:46 on instrument JSVGCECD2 yielded a %D that

exceeded the 15% quality control criterion for 4,4'DDT and methoxychlor on column 1 and on column 2. The result for 4,4'DDT in sample JAX47-SB095-01-112806 was qualified estimated (J) for this noncompliance. No actions were taken due to this noncompliance for methoxychlor since it was not reported from this analysis.

The continuing calibration performed on 12/27/06 at 15:13 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for 4,4'DDT and endosulfan II on column 1 and on column 2. The result for 4,4'DDT in sample JAX47-SB095-01-112806 was qualified estimated (J) for this noncompliance. The nondetect result for endosulfan II was qualified estimated (UJ) in sample JAX47-SB095-01-112806 for this noncompliance.

The continuing calibration performed on 01/05/07 at 17:07 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for 4,4'DDT on column 1 and on column 2. Positive results for 4,4'DDT were qualified estimated (J) for this noncompliance.

The surrogate recovery for tetrachloro-m-xylene (TCX) was low for samples JAX47-SB094-06-112806, JAX47-SB095-01-112806 and JAX47-SB085-05-112906. Positive and nondetect results were qualified estimated (J) and (UJ) for this noncompliance.

The surrogate recovery for tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) was low and high respectively for sample JAX47-SB094-01-112806. No action was taken because the reported results were from the other column.

The surrogate recovery for decachlorobiphenyl (DCB) was high for sample JAX47-SB095-01-112806. Affected results were qualified estimated (J) for this noncompliance.

The MS/MSD analyses included within this SDG were not performed on a sample in this SDG. No action was taken for this noncompliance.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Dual column confirmation noncompliance. MDL versus RL issues on Form Is.
Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and Department of Defense document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

TO: MARK PETERSON – PAGE 4
DATE: MARCH 6, 2007

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM for guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Preston R Smith
Environmental Scientist

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB084-01-112906	nsample	JAX47-SB084-01-112906-RE1	nsample	JAX47-SB084-01-112906-RE2
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610307-15	lab_id	B610307-15RE1	lab_id	B610307-15RE2
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.2	Pct_Solids	96.2	Pct_Solids	96.2
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0064	J	U
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
BETA-BHC	0.001	J	P
DELTA-BHC	0.00017	U	
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.057	J	U
ENDOSULFAN SULFATE	0.0023	J	U
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.00066	J	PU
GAMMA-BHC (LINDANE)	0.0012	J	P
HEPTACHLOR	0.052		
METHOXYCHLOR	0.012	J	U
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDE	0.24		
4,4'-DDT	0.15		
DIELDRIN	0.13	J	U
ENDRIN	0.087	J	U
HEPTACHLOR EPOXIDE	0.85		

Parameter	Result	Val Qual	Qual Code
ALPHA-CHLORDANE	7.9	J	U
GAMMA-CHLORDANE	4.9		

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB084-05-112906	nsample	JAX47-SB085-01-112906	nsample	JAX47-SB085-05-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610307-16	lab_id	B610307-17	lab_id	B610307-18
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	90.9	Pct_Solids	84.4	Pct_Solids	88.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00033	U	
4,4'-DDE	0.00088	J	P
4,4'-DDT	0.0012	J	CP
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.028	J	U
BETA-BHC	0.00036	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.00025	U	
ENDOSULFAN I	0.00029	U	
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00029	U	
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00018	J	PU
ENDRIN KETONE	0.00033	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.019		
HEPTACHLOR	0.0004	J	PU
HEPTACHLOR EPOXIDE	0.0052		
METHOXYCHLOR	0.00036	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.005	J	U
4,4'-DDE	0.055		
4,4'-DDT	0.073	J	C
ALDRIN	0.00023	U	
ALPHA-BHC	0.00016	U	
ALPHA-CHLORDANE	0.016	J	U
BETA-BHC	0.00039	U	
DELTA-BHC	0.0002	U	
DIELDRIN	0.0019	J	P
ENDOSULFAN I	0.00031	U	
ENDOSULFAN II	0.00027	U	
ENDOSULFAN SULFATE	0.0017	J	PU
ENDRIN	0.0011	J	P
ENDRIN ALDEHYDE	0.0011	J	PU
ENDRIN KETONE	0.00035	U	
GAMMA-BHC (LINDANE)	0.0002	U	
GAMMA-CHLORDANE	0.0034		
HEPTACHLOR	0.00027	U	
HEPTACHLOR EPOXIDE	0.00083	J	P
METHOXYCHLOR	0.0028		
TOXAPHENE	0.002	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00034	UJ	R
4,4'-DDE	0.00037	UJ	R
4,4'-DDT	0.00038	J	CPR
ALDRIN	0.00022	UJ	R
ALPHA-BHC	0.00015	UJ	R
ALPHA-CHLORDANE	0.0003	UJ	R
BETA-BHC	0.00037	UJ	R
DELTA-BHC	0.00019	UJ	R
DIELDRIN	0.00026	UJ	R
ENDOSULFAN I	0.0003	UJ	R
ENDOSULFAN II	0.00026	UJ	R
ENDOSULFAN SULFATE	0.0003	UJ	R
ENDRIN	0.00041	UJ	R
ENDRIN ALDEHYDE	0.00019	UJ	R
ENDRIN KETONE	0.00034	UJ	R
GAMMA-BHC (LINDANE)	0.00019	UJ	R
GAMMA-CHLORDANE	0.00026	UJ	R
HEPTACHLOR	0.00026	UJ	R
HEPTACHLOR EPOXIDE	0.00063	UJ	R
METHOXYCHLOR	0.00037	UJ	R
TOXAPHENE	0.0019	UJ	R

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB086-01-112906
samp_date	11/29/2006
lab_id	B610307-19
qc_type	NM
units	MG/KG
Pct_Solids	99.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0024	J	U
4,4'-DDE	0.044		
4,4'-DDT	0.027	J	C
ALDRIN	0.0002	U	
ALPHA-BHC	0.00013	U	
ALPHA-CHLORDANE	0.00027	U	
BETA-BHC	0.0026	J	U
DELTA-BHC	0.00034	J	PU
DIELDRIN	0.00044	J	P
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00023	U	
ENDOSULFAN SULFATE	0.0014	J	P
ENDRIN	0.00061	J	PU
ENDRIN ALDEHYDE	0.00047	J	PU
ENDRIN KETONE	0.0003	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.00071	J	P
HEPTACHLOR	0.00023	U	
HEPTACHLOR EPOXIDE	0.00057	U	
METHOXYCHLOR	0.0016	J	P
TOXAPHENE	0.0017	U	

nsample	JAX47-SB086-06-112906-RE1
samp_date	11/29/2006
lab_id	B610307-20RE1
qc_type	NM
units	MG/KG
Pct_Solids	95.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00031	UJ	H
4,4'-DDE	0.00098	J	HP
4,4'-DDT	0.00077	U	A
ALDRIN	0.00021	UJ	H
ALPHA-BHC	0.0032	J	H
ALPHA-CHLORDANE	0.0007	J	HPU
DIELDRIN	0.00067	J	HP
ENDOSULFAN I	0.00028	UJ	H
ENDOSULFAN II	0.00024	UJ	H
ENDOSULFAN SULFATE	0.00028	UJ	H
ENDRIN	0.00038	UJ	H
ENDRIN ALDEHYDE	0.00017	UJ	H
ENDRIN KETONE	0.00042	J	HP
GAMMA-BHC (LINDANE)	0.008	J	H
GAMMA-CHLORDANE	0.0092	J	HU
HEPTACHLOR	0.00024	UJ	H
HEPTACHLOR EPOXIDE	0.00098	J	HPU
METHOXYCHLOR	0.00049	J	HPU
TOXAPHENE	0.0017	UJ	H

nsample	JAX47-SB086-06-112906-RE2
samp_date	11/29/2006
lab_id	B610307-20RE2
qc_type	NM
units	MG/KG
Pct_Solids	95.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BETA-BHC	0.25		
DELTA-BHC	0.36		

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB094-01-112806	nsample	JAX47-SB094-01-112806-RE1	nsample	JAX47-SB094-01-112806-RE2
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610307-09	lab_id	B610307-09RE1	lab_id	B610307-09RE2
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	97.1	Pct_Solids	97.1	Pct_Solids	97.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALDRIN	0.0002	U	
ALPHA-BHC	0.00031	J	P
BETA-BHC	0.0014	J	PU
DELTA-BHC	0.00017	U	
ENDRIN KETONE	0.0031	J	U
GAMMA-BHC (LINDANE)	0.0031	J	U
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.38	J	U
4,4'-DDE	0.54		
ENDOSULFAN I	0.4	J	U
ENDOSULFAN II	0.0047	U	
ENDOSULFAN SULFATE	0.11	J	U
ENDRIN ALDEHYDE	0.08	J	U
HEPTACHLOR	0.15		
HEPTACHLOR EPOXIDE	0.92	J	U
METHOXYCHLOR	0.056	J	U

Parameter	Result	Val Qual	Qual Code
4,4'-DDT	2		
DIELDRIN	1.1	J	U
ENDRIN	1.4		

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB094-01-112806-RE3
samp_date	11/28/2006
lab_id	B610307-09RE3
qc_type	NM
units	MG/KG
Pct_Solids	97.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALPHA-CHLORDANE	50	J	U
GAMMA-CHLORDANE	37		

nsample	JAX47-SB094-06-112806
samp_date	11/28/2006
lab_id	B610307-10
qc_type	NM
units	MG/KG
Pct_Solids	83.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDE	0.055	J	R
ALDRIN	0.00024	J	PRU
ALPHA-BHC	0.00016	UJ	R
ALPHA-CHLORDANE	0.052	J	R
BETA-BHC	0.00039	UJ	R
DELTA-BHC	0.0002	UJ	R
DIELDRIN	0.00028	UJ	R
ENDOSULFAN I	0.00032	UJ	R
ENDOSULFAN II	0.00028	UJ	R
ENDOSULFAN SULFATE	0.00032	UJ	R
ENDRIN	0.00064	J	PRU
ENDRIN ALDEHYDE	0.0002	UJ	R
ENDRIN KETONE	0.00036	UJ	R
GAMMA-BHC (LINDANE)	0.0002	UJ	R
GAMMA-CHLORDANE	0.052	J	R
HEPTACHLOR	0.0006	J	PR
HEPTACHLOR EPOXIDE	0.012	J	PRU
METHOXYCHLOR	0.00039	UJ	CR
TOXAPHENE	0.002	UJ	R

nsample	JAX47-SB094-06-112806-RE1
samp_date	11/28/2006
lab_id	B610307-10RE1
qc_type	NM
units	MG/KG
Pct_Solids	83.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.9	J	R
4,4'-DDT	4.9	J	R

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB095-01-112806
samp_date	11/28/2006
lab_id	B610307-11
qc_type	NM
units	MG/KG
Pct_Solids	94.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALDRIN	0.00021	UJ	R
ALPHA-BHC	0.00032	J	PR
BETA-BHC	0.0029	J	R
DELTA-BHC	0.00074	J	PR
ENDOSULFAN I	0.00028	UJ	R
ENDOSULFAN II	0.044	J	RU
ENDOSULFAN SULFATE	0.044	J	RU
ENDRIN ALDEHYDE	0.014	J	RU
ENDRIN KETONE	0.004	J	RU
GAMMA-BHC (LINDANE)	0.0028	J	R
HEPTACHLOR	0.0011	J	PR
TOXAPHENE	0.0017	UJ	R

nsample	JAX47-SB095-01-112806-RE1
samp_date	11/28/2006
lab_id	B610307-11RE1
qc_type	NM
units	MG/KG
Pct_Solids	94.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.11	J	RU
4,4'-DDE	0.86	J	R
DIELDRIN	0.8	J	R
ENDRIN	0.15	J	RU
HEPTACHLOR EPOXIDE	0.14	J	RU
METHOXYCHLOR	0.14	J	RU

nsample	JAX47-SB095-01-112806-RE2
samp_date	11/28/2006
lab_id	B610307-11RE2
qc_type	NM
units	MG/KG
Pct_Solids	94.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDT	8	J	C
ALPHA-CHLORDANE	0.55	U	
GAMMA-CHLORDANE	0.49	U	

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB095-06-112806
samp_date	11/28/2006
lab_id	B610307-12
qc_type	NM
units	MG/KG
Pct_Solids	83.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00035	U	
4,4'-DDE	0.00039	U	
4,4'-DDT	0.00044	J	PU
ALDRIN	0.00024	U	
ALPHA-BHC	0.00016	U	
ALPHA-CHLORDANE	0.00032	U	
BETA-BHC	0.00039	U	
DELTA-BHC	0.0002	U	
DIELDRIN	0.00028	U	
ENDOSULFAN I	0.00032	U	
ENDOSULFAN II	0.00028	U	
ENDOSULFAN SULFATE	0.00032	U	
ENDRIN	0.00043	U	
ENDRIN ALDEHYDE	0.0002	U	
ENDRIN KETONE	0.00052	J	PU
GAMMA-BHC (LINDANE)	0.0002	U	
GAMMA-CHLORDANE	0.00028	U	
HEPTACHLOR	0.00028	U	
HEPTACHLOR EPOXIDE	0.00067	U	
METHOXYCHLOR	0.00091	J	CPU
TOXAPHENE	0.002	U	

nsample	JAX47-SB097-01-112806
samp_date	11/28/2006
lab_id	B610307-13
qc_type	NM
units	MG/KG
Pct_Solids	95.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0059		
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.00028	U	
BETA-BHC	0.00049	J	PU
DELTA-BHC	0.00017	U	
DIELDRIN	0.0017	J	U
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.0026	J	PU
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00098	J	PU
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.0062	J	U
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.0017	J	PU
METHOXYCHLOR	0.0016	J	CPU
TOXAPHENE	0.0017	U	

nsample	JAX47-SB097-01-112806-RE1
samp_date	11/28/2006
lab_id	B610307-13RE1
qc_type	NM
units	MG/KG
Pct_Solids	95.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDE	0.13		
4,4'-DDT	0.14		

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB097-06-112806
samp_date	11/28/2006
lab_id	B610307-14
qc_type	NM
units	MG/KG
Pct_Solids	80.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00037	U	
4,4'-DDE	0.00054	J	P
4,4'-DDT	0.00045	J	P
ALDRIN	0.00025	U	
ALPHA-BHC	0.00016	U	
ALPHA-CHLORDANE	0.00033	U	
BETA-BHC	0.00041	U	
DELTA-BHC	0.0002	U	
DIELDRIN	0.00029	U	
ENDOSULFAN I	0.00033	U	
ENDOSULFAN II	0.00029	U	
ENDOSULFAN SULFATE	0.00033	U	
ENDRIN	0.00045	U	
ENDRIN ALDEHYDE	0.0002	U	
ENDRIN KETONE	0.00037	U	
GAMMA-BHC (LINDANE)	0.0002	U	
GAMMA-CHLORDANE	0.00029	U	
HEPTACHLOR	0.00029	U	
HEPTACHLOR EPOXIDE	0.0007	U	
METHOXYCHLOR	0.00041	UJ	C
TOXAPHENE	0.002	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB084-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-15	File ID:	9A5A010-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 17:32
Solids:	96.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0012	J
319-85-7	beta-BHC	1	0.0010	J
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.052	
309-00-2	Aldrin	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0064	
33213-65-9	Endosulfan II	1	0.057	P
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.012	P
1031-07-8	Endosulfan sulfate	1	0.0023	P
53494-70-5	Endrin ketone	1	0.00066	JP
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0346	0.0275	79	70 - 125	
DBC	0.0346	0.0290	84	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB084-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-15RE1	File ID:	9LRA013-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 17:35
Solids:	96.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
1024-57-3	Heptachlor epoxide	20	0.85	D
72-55-9	4,4'-DDE	20	0.24	D
60-57-1	Dieldrin	20	0.13	DP
72-20-8	Endrin	20	0.087	DP
33213-65-9	Endosulfan II	20	0.058	DP
50-29-3	4,4'-DDT	20	0.15	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB084-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-15RE2	File ID:	9LRA008-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 15:26
Solids:	96.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	200	4.9	D
NA	Chlordane-alpha	200	7.9	DP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB084-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-16	File ID:	9A5A004A-0
Sampled:	11/29/06 13:44	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 14:57
Solids:	90.88	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.00040	JP
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0052	
NA	Chlordane-gamma	1	0.019	
72-55-9	4,4'-DDE	1	0.00088	J
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
50-29-3	4,4'-DDT	1	0.0012	J
7421-93-4	Endrin aldehyde	1	0.00018	JP
72-43-5	Methoxychlor	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.036	U
NA	Chlordane-alpha	1	0.016	P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0367	0.0303	83	70 - 125	
DBC	0.0367	0.0301	82	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB085-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-17	File ID:	9A5A008-0
Sampled:	11/29/06 13:55	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 16:41
Solids:	84.44	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0020	U
58-89-9	gamma-BHC	1	0.0020	U
319-85-7	beta-BHC	1	0.0020	U
319-86-8	delta-BHC	1	0.0020	U
76-44-8	Heptachlor	1	0.0020	U
309-00-2	Aldrin	1	0.0020	U
NA	Chlordane-gamma	1	0.0034	
72-55-9	4,4'-DDE	1	0.055	
959-98-8	Endosulfan I	1	0.0020	U
60-57-1	Dieldrin	1	0.0019	J
33213-65-9	Endosulfan II	1	0.0020	U
50-29-3	4,4'-DDT	1	0.073	
7421-93-4	Endrin aldehyde	1	0.0011	JP
72-43-5	Methoxychlor	1	0.0028	
1031-07-8	Endosulfan sulfate	1	0.0017	JP
53494-70-5	Endrin ketone	1	0.0020	U
8001-35-2	Toxaphene	1	0.039	U
1024-57-3	Heptachlor epoxide	1	0.0020	U
NA	Chlordane-alpha	1	0.0030	P
72-20-8	Endrin	1	0.0020	U
72-54-8	4,4'-DDD	1	0.0028	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0395	0.0294	74	70 - 125	
DBC	0.0395	0.0379	96	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB085-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-18	File ID:	9A5A005A-0
Sampled:	11/29/06 14:02	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 15:23
Solids:	88.38	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0019	U
58-89-9	gamma-BHC	1	0.0019	U
319-85-7	beta-BHC	1	0.0019	U
319-86-8	delta-BHC	1	0.0019	U
76-44-8	Heptachlor	1	0.0019	U
309-00-2	Aldrin	1	0.0019	U
1024-57-3	Heptachlor epoxide	1	0.0019	U
NA	Chlordane-gamma	1	0.0019	U
NA	Chlordane-alpha	1	0.0019	U
72-55-9	4,4′-DDE	1	0.0019	U
959-98-8	Endosulfan I	1	0.0019	U
60-57-1	Dieldrin	1	0.0019	U
72-20-8	Endrin	1	0.0019	U
72-54-8	4,4′-DDD	1	0.0019	U
33213-65-9	Endosulfan II	1	0.0019	U
50-29-3	4,4′-DDT	1	0.00038	J
7421-93-4	Endrin aldehyde	1	0.0019	U
72-43-5	Methoxychlor	1	0.0019	U
1031-07-8	Endosulfan sulfate	1	0.0019	U
53494-70-5	Endrin ketone	1	0.0019	U
8001-35-2	Toxaphene	1	0.037	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0377	0.0259	69	70 - 125	*
DBC	0.0377	0.0261	69	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB086-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-19	File ID:	9A5A006A-0
Sampled:	11/29/06 09:43	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 15:49
Solids:	99.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.00034	JP
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.00071	J
NA	Chlordane-alpha	1	0.0017	U
72-55-9	4,4'-DDE	1	0.044	
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.00044	J
72-54-8	4,4'-DDD	1	0.0024	
33213-65-9	Endosulfan II	1	0.0017	U
50-29-3	4,4'-DDT	1	0.027	
7421-93-4	Endrin aldehyde	1	0.00047	JP
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.033	U
319-85-7	beta-BHC	1	0.00057	JP
72-20-8	Endrin	1	0.00040	JP
72-43-5	Methoxychlor	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0337	0.0252	75	70 - 125	
DBC	0.0337	0.0283	84	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB086-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-20RE1	File ID:	9LOA011-0
Sampled:	11/29/06 09:50	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 15:31
Solids:	95.04	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0032	
58-89-9	gamma-BHC	1	0.0080	
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.00098	JP
NA	Chlordane-gamma	1	0.0092	P
NA	Chlordane-alpha	1	0.00070	JP
72-55-9	4,4'-DDE	1	0.00098	J
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.00067	J
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0017	U
33213-65-9	Endosulfan II	1	0.0017	U
50-29-3	4,4'-DDT	1	0.00077	J
7421-93-4	Endrin aldehyde	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.00042	J
8001-35-2	Toxaphene	1	0.035	U
72-43-5	Methoxychlor	1	0.00049	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0351	0.0338	96	70 - 125	
DBC	0.0351	0.0348	99	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB086-06-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-20RE2	File ID:	9LQA013-0
Sampled:	11/29/06 09:50	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 16:50
Solids:	95.04	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-85-7	beta-BHC	10	0.25	D
319-86-8	delta-BHC	10	0.36	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09	File ID:	9LHA041-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 05:57
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00031	J
58-89-9	gamma-BHC	1	0.0031	P
319-85-7	beta-BHC	1	0.0014	JP
319-86-8	delta-BHC	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0031	P
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0343	0.0240	70	70 - 125	
DBC	0.0343	0.0329	96	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09RE1	File ID:	9LRA014-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 18:01
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
76-44-8	Heptachlor	20	0.15	D
1024-57-3	Heptachlor epoxide	20	0.92	DP
72-55-9	4,4'-DDE	20	0.54	D
959-98-8	Endosulfan I	20	0.40	DP
72-54-8	4,4'-DDD	20	0.38	D
7421-93-4	Endrin aldehyde	20	0.080	DP
72-43-5	Methoxychlor	20	0.056	DP
1031-07-8	Endosulfan sulfate	20	0.11	DP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09RE2	File ID:	9LRA009-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 15:51
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
60-57-1	Dieldrin	200	1.1	DP
72-20-8	Endrin	200	1.4	D
50-29-3	4,4′-DDT	200	2.0	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-01-112806

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-09RE3	File ID:	9LRA004-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 13:42
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	2000	37	D
NA	Chlordane-alpha	2000	50	DP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-06-112806

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610307-10 File ID: 9LHA042-0

Sampled: 11/28/06 14:25 Prepared: 12/07/06 16:27 Analyzed: 12/14/06 06:23

Solids: 83.58 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0020	U
58-89-9	gamma-BHC	1	0.0020	U
319-85-7	beta-BHC	1	0.0020	U
319-86-8	delta-BHC	1	0.0020	U
76-44-8	Heptachlor	1	0.00060	J
309-00-2	Aldrin	1	0.00024	JP
1024-57-3	Heptachlor epoxide	1	0.012	P
NA	Chlordane-gamma	1	0.052	
NA	Chlordane-alpha	1	0.052	
72-55-9	4,4'-DDE	1	0.055	
959-98-8	Endosulfan I	1	0.0020	U
60-57-1	Dieldrin	1	0.0020	U
72-20-8	Endrin	1	0.00064	JP
33213-65-9	Endosulfan II	1	0.0020	U
7421-93-4	Endrin aldehyde	1	0.0020	U
72-43-5	Methoxychlor	1	0.0020	U
1031-07-8	Endosulfan sulfate	1	0.0020	U
53494-70-5	Endrin ketone	1	0.0020	U
8001-35-2	Toxaphene	1	0.039	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0399	0.0228	57	70 - 125	*
DBC	0.0399	0.0327	82	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-06-112806

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-10RE1	File ID:	9LRA011-0
Sampled:	11/28/06 14:25	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 16:43
Solids:	83.58	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	100	1.9	D
50-29-3	4,4'-DDT	100	4.9	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB095-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-11	File ID:	9LHA043-0
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 06:49
Solids:	94.74	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00032	J
58-89-9	gamma-BHC	1	0.0028	
319-85-7	beta-BHC	1	0.0029	
319-86-8	delta-BHC	1	0.00074	J
76-44-8	Heptachlor	1	0.0011	J
309-00-2	Aldrin	1	0.0018	U
959-98-8	Endosulfan I	1	0.0018	U
33213-65-9	Endosulfan II	1	0.044	P
7421-93-4	Endrin aldehyde	1	0.014	P
53494-70-5	Endrin ketone	1	0.0040	P
8001-35-2	Toxaphene	1	0.035	U
1031-07-8	Endosulfan sulfate	1	0.020	P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0352	0.0213	60	70 - 125	*
DBC	0.0352	0.0753	214	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB095-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-11RE1	File ID:	9LRA015-0
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 18:26
Solids:	94.74	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
1024-57-3	Heptachlor epoxide	20	0.14	DP
72-55-9	4,4'-DDE	20	0.86	D
60-57-1	Dieldrin	20	0.80	D
72-20-8	Endrin	20	0.15	DP
72-54-8	4,4'-DDD	20	0.11	D
72-43-5	Methoxychlor	20	0.14	DP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB095-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-11RE2	File ID:	9LVA005-0
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/27/06 11:38
Solids:	94.74	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	2000	1.1	JD
33213-65-9	Endosulfan II	2000	3.5	UD
50-29-3	4,4'-DDT	2000	8.0	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB095-06-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-12	File ID:	9LHA044-0
Sampled:	11/28/06 14:46	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 07:15
Solids:	83.80	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0020	U
58-89-9	gamma-BHC	1	0.0020	U
319-85-7	beta-BHC	1	0.0020	U
319-86-8	delta-BHC	1	0.0020	U
76-44-8	Heptachlor	1	0.0020	U
309-00-2	Aldrin	1	0.0020	U
1024-57-3	Heptachlor epoxide	1	0.0020	U
NA	Chlordane-gamma	1	0.0020	U
NA	Chlordane-alpha	1	0.0020	U
72-55-9	4,4'-DDE	1	0.0020	U
959-98-8	Endosulfan I	1	0.0020	U
60-57-1	Dieldrin	1	0.0020	U
72-20-8	Endrin	1	0.0020	U
72-54-8	4,4'-DDD	1	0.0020	U
33213-65-9	Endosulfan II	1	0.0020	U
50-29-3	4,4'-DDT	1	0.00044	J
7421-93-4	Endrin aldehyde	1	0.0020	U
72-43-5	Methoxychlor	1	0.00091	JP
1031-07-8	Endosulfan sulfate	1	0.0020	U
53494-70-5	Endrin ketone	1	0.00052	JP
8001-35-2	Toxaphene	1	0.039	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0398	0.0278	70	70 - 125	
DBC	0.0398	0.0310	78	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB097-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-13	File ID:	9LHA045-0
Sampled:	11/28/06 15:10	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 07:41
Solids:	95.61	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.00049	JP
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	J
NA	Chlordane-gamma	1	0.0062	P
NA	Chlordane-alpha	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	P
72-20-8	Endrin	1	0.0017	U
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.00098	JP
72-43-5	Methoxychlor	1	0.0016	J
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.035	U
72-54-8	4,4'-DDD	1	0.0074	
1031-07-8	Endosulfan sulfate	1	0.00031	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0349	0.0258	74	70 - 125	
DBC	0.0349	0.0369	106	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB097-01-112806

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-13RE1	File ID:	9LRA017-0
Sampled:	11/28/06 15:10	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 19:18
Solids:	95.61	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4'-DDE	10	0.13	D
50-29-3	4,4'-DDT	10	0.14	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB097-06-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-14	File ID:	9LHA046-0
Sampled:	11/28/06 15:15	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 08:07
Solids:	80.61	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0021	U
58-89-9	gamma-BHC	1	0.0021	U
319-85-7	beta-BHC	1	0.0021	U
319-86-8	delta-BHC	1	0.0021	U
76-44-8	Heptachlor	1	0.0021	U
309-00-2	Aldrin	1	0.0021	U
1024-57-3	Heptachlor epoxide	1	0.0021	U
NA	Chlordane-gamma	1	0.0021	U
NA	Chlordane-alpha	1	0.0021	U
72-55-9	4,4'-DDE	1	0.00054	J
959-98-8	Endosulfan I	1	0.0021	U
60-57-1	Dieldrin	1	0.0021	U
72-20-8	Endrin	1	0.0021	U
72-54-8	4,4'-DDD	1	0.0021	U
33213-65-9	Endosulfan II	1	0.0021	U
50-29-3	4,4'-DDT	1	0.00045	J
7421-93-4	Endrin aldehyde	1	0.0021	U
72-43-5	Methoxychlor	1	0.0021	U
1031-07-8	Endosulfan sulfate	1	0.0021	U
53494-70-5	Endrin ketone	1	0.0021	U
8001-35-2	Toxaphene	1	0.041	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0414	0.0321	78	70 - 125	
DBC	0.0414	0.0277	67	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB084-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-15	File ID:	9A5A010-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 17:32
Solids:	96.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0017	U	
58-89-9	gamma-BHC	1	0.0012	J	J for P
319-85-7	beta-BHC	1	0.0010	J	J for P
319-86-8	delta-BHC	1	0.0017	U	
76-44-8	Heptachlor	1	0.052	✓	
309-00-2	Aldrin	1	0.0017	U	
959-98-8	Endosulfan I	1	0.0017	U	
72-54-8	4,4'-DDD	1	0.0064		R for U
33213-65-9	Endosulfan II	1	0.057	P	R for U
7421-93-4	Endrin aldehyde	1	0.0017	U	
72-43-5	Methoxychlor	1	0.012	P	R for U
1031-07-8	Endosulfan sulfate	1	0.0023	P	J for U
53494-70-5	Endrin ketone	1	0.00066	JP	R for U
8001-35-2	Toxaphene	1	0.034	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0346	0.0275	79	70 - 125	
DBC	0.0346	0.0290	84	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB084-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-15RE1	File ID:	9LRA013-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 17:35
Solids:	96.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
1024-57-3	Heptachlor epoxide	20	0.85	✓	D
72-55-9	4,4′-DDE	20	0.24	✓	D
60-57-1	Dieldrin	20	0.13		DP
72-20-8	Endrin	20	0.087	✓	DP
33213-65-9	Endosulfan II	20	0.058		DP
50-29-3	4,4′-DDT	20	0.15	✓	DJ

R for U
J for U
R for U
for A

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB084-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-15RE2	File ID:	9LRA008-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 15:26
Solids:	96.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	200	4.9	√ D
NA	Chlordane-alpha	200	7.9	DP

J for 4

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB084-05-112906

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610307-16 File ID: 9A5A004A-0

Sampled: 11/29/06 13:44 Prepared: 12/07/06 16:27 Analyzed: 01/05/07 14:57

Solids: 90.88 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0018	U	
58-89-9	gamma-BHC	1	0.0018	U	
319-85-7	beta-BHC	1	0.0018	U	
319-86-8	delta-BHC	1	0.0018	U	
76-44-8	Heptachlor	1	0.00040	JP	J for 4
309-00-2	Aldrin	1	0.0018	U	
1024-57-3	Heptachlor epoxide	1	0.0052	✓	
NA	Chlordane-gamma	1	0.019	✓	
72-55-9	4,4'-DDE	1	0.00088	✓ J	J for P
959-98-8	Endosulfan I	1	0.0018	U	
60-57-1	Dieldrin	1	0.0018	U	
72-20-8	Endrin	1	0.0018	U	
72-54-8	4,4'-DDD	1	0.0018	U	
33213-65-9	Endosulfan II	1	0.0018	U	
50-29-3	4,4'-DDT	1	0.0012	J	J for A* P
7421-93-4	Endrin aldehyde	1	0.00018	JP	R for 4
72-43-5	Methoxychlor	1	0.0018	U	A
1031-07-8	Endosulfan sulfate	1	0.0018	U	
53494-70-5	Endrin ketone	1	0.0018	U	
8001-35-2	Toxaphene	1	0.036	U	
NA	Chlordane-alpha	1	0.016	P	J for 4

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0367	0.0303	83	70 - 125	
DBC	0.0367	0.0301	82	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB085-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-17 | File ID: 9A5A008-0

Sampled: 11/29/06 13:55 | Prepared: 12/07/06 16:27 | Analyzed: 01/05/07 16:41

Solids: 84.44 | Preparation: EPA 3545 | Initial/Final: 15 g / 5 mL

Batch: 6L07024 | Sequence: BA00091 | Calibration: 0612008 | Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0020	U	
58-89-9	gamma-BHC	1	0.0020	U	
319-85-7	beta-BHC	1	0.0020	U	
319-86-8	delta-BHC	1	0.0020	U	
76-44-8	Heptachlor	1	0.0020	U	
309-00-2	Aldrin	1	0.0020	U	
NA	Chlordane-gamma	1	0.0034	√	
72-55-9	4,4´-DDE	1	0.055	√	
959-98-8	Endosulfan I	1	0.0020	U	
60-57-1	Dieldrin	1	0.0019	√ J	J for P
33213-65-9	Endosulfan II	1	0.0020	U	
50-29-3	4,4´-DDT	1	0.073	√	
7421-93-4	Endrin aldehyde	1	0.0011	JP	R for Y, A
72-43-5	Methoxychlor	1	0.0028	J	
1031-07-8	Endosulfan sulfate	1	0.0017	JP	R for Y
53494-70-5	Endrin ketone	1	0.0020	U	
8001-35-2	Toxaphene	1	0.039	U	
1024-57-3	Heptachlor epoxide	1	0.0020 0.00085-J	U	
NA	Chlordane-alpha	1	0.0030	P	R for Y
72-20-8	Endrin	1	0.0020 0.0011-J	U	
72-54-8	4,4'-DDD	1	0.0028		J for Y

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0395	0.0294	74	70 - 125	
DBC	0.0395	0.0379	96	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB085-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-18	File ID:	9A5A005A-0
Sampled:	11/29/06 14:02	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 15:23
Solids:	88.38	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0019	U
58-89-9	gamma-BHC	1	0.0019	U
319-85-7	beta-BHC	1	0.0019	U
319-86-8	delta-BHC	1	0.0019	U
76-44-8	Heptachlor	1	0.0019	U
309-00-2	Aldrin	1	0.0019	U
1024-57-3	Heptachlor epoxide	1	0.0019	U
NA	Chlordane-gamma	1	0.0019	U
NA	Chlordane-alpha	1	0.0019	U
72-55-9	4,4´-DDE	1	0.0019	U
959-98-8	Endosulfan I	1	0.0019	U
60-57-1	Dieldrin	1	0.0019	U
72-20-8	Endrin	1	0.0019	U
72-54-8	4,4´-DDD	1	0.0019	U
33213-65-9	Endosulfan II	1	0.0019	U
50-29-3	4,4´-DDT	1	0.00038	J
7421-93-4	Endrin aldehyde	1	0.0019	U
72-43-5	Methoxychlor	1	0.0019	U
1031-07-8	Endosulfan sulfate	1	0.0019	U
53494-70-5	Endrin ketone	1	0.0019	U
8001-35-2	Toxaphene	1	0.037	U

for A4 P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0377	0.0259	69	70 - 125	*
DBC	0.0377	0.0261	69	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB086-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-19	File ID:	9A5A006A-0
Sampled:	11/29/06 09:43	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 15:49
Solids:	99.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0017	U	
58-89-9	gamma-BHC	1	0.0017	U	
319-86-8	delta-BHC	1	0.00034	JP	R for 4
76-44-8	Heptachlor	1	0.0017	U	
309-00-2	Aldrin	1	0.0017	U	
1024-57-3	Heptachlor epoxide	1	0.0017	U	
NA	Chlordane-gamma	1	0.00071	√ J	J for P
NA	Chlordane-alpha	1	0.0017	U	
72-55-9	4,4'-DDE	1	0.044	√	
959-98-8	Endosulfan I	1	0.0017	U	
60-57-1	Dieldrin	1	0.00044	J	J for P
72-54-8	4,4'-DDD	1	0.0024		J for 4
33213-65-9	Endosulfan II	1	0.0017	U	
50-29-3	4,4'-DDT	1	0.027	√	
7421-93-4	Endrin aldehyde	1	0.00047	JP	J for 4, K
53494-70-5	Endrin ketone	1	0.0017	U	
8001-35-2	Toxaphene	1	0.033	U	
319-85-7	beta-BHC	1	0.00057	JP	R for 4
72-20-8	Endrin	1	0.00040	JP	J for 4
72-43-5	Methoxychlor	1	0.0017	U	
1031-07-8	Endosulfan sulfate	1	0.0017	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0337	0.0252	75	70 - 125	
DBC	0.0337	0.0283	84	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB086-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-20RE1	File ID:	9LOA011-0
Sampled:	11/29/06 09:50	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 15:31
Solids:	95.04	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0032	J
58-89-9	gamma-BHC	1	0.0080	J
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.00098	JP
NA	Chlordane-gamma	1	0.0092	P
NA	Chlordane-alpha	1	0.00070	JP
72-55-9	4,4'-DDE	1	0.00098	J
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.00067	J
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0017	U
33213-65-9	Endosulfan II	1	0.0017	U
50-29-3	4,4'-DDT	1	0.00077	J
7421-93-4	Endrin aldehyde	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.00042	J
8001-35-2	Toxaphene	1	0.035	U
72-43-5	Methoxychlor	1	0.00049	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0351	0.0338	96	70 - 125	
DBC	0.0351	0.0348	99	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB086-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-20RE2	File ID:	9LQA013-0
Sampled:	11/29/06 09:50	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 16:50
Solids:	95.04	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-85-7	beta-BHC	10	0.25	✓ D	F toxC
319-86-8	delta-BHC	10	0.36	✓ D	J toxC

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-01-112806

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610307-09 File ID: 9LHA041-0

Sampled: 11/28/06 14:00 Prepared: 12/07/06 16:27 Analyzed: 12/14/06 05:57

Solids: 97.06 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.00031	J	U
58-89-9	gamma-BHC	1	0.0031	P	R for 4
319-85-7	beta-BHC	1	0.0014	JP	J for 4
319-86-8	delta-BHC	1	0.0017	U	
309-00-2	Aldrin	1	0.0017	U	
53494-70-5	Endrin ketone	1	0.0031	P	R for 4
8001-35-2	Toxaphene	1	0.034	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0343	0.0240	70	70 - 125	
DBC	0.0343	0.0329	96	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09RE1	File ID:	9LRA014-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 18:01
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
76-44-8	Heptachlor	20	0.15	✓ D	
1024-57-3	Heptachlor epoxide	20	0.92	DP	J for 4
72-55-9	4,4'-DDE	20	0.54	✓ D	
959-98-8	Endosulfan I	20	0.40	DP	J for 4
72-54-8	4,4'-DDD	20	0.38	D	R for 4
7421-93-4	Endrin aldehyde	20	0.080	DP	R for 4 J/A
72-43-5	Methoxychlor	20	0.056	DP	R for 4
1031-07-8	Endosulfan sulfate	20	0.11	DP	R for 4
	ENDOSULFAN II	20	0.0047	4	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-01-112806

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-09RE2	File ID:	9LRA009-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 15:51
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
60-57-1	Dieldrin	200	1.1	DP	R for A
72-20-8	Endrin	200	1.4	✓ D	
50-29-3	4,4'-DDT	200	2.0	✓ DJ	for A

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09RE3	File ID:	9LRA004-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 13:42
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	2000	37	D
NA	Chlordane-alpha	2000	50	DP

J for 4

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-06-112806

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610307-10 File ID: 9LHA042-0

Sampled: 11/28/06 14:25 Prepared: 12/07/06 16:27 Analyzed: 12/14/06 06:23

Solids: 83.58 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0020	U	
58-89-9	gamma-BHC	1	0.0020	U	
319-85-7	beta-BHC	1	0.0020	U	
319-86-8	delta-BHC	1	0.0020	U	
76-44-8	Heptachlor	1	0.00060	J	
309-00-2	Aldrin	1	0.00024	JP	R for Y
1024-57-3	Heptachlor epoxide	1	0.012	P	R for Y
NA	Chlordane-gamma	1	✓ 0.052		
NA	Chlordane-alpha	1	✓ 0.052		
72-55-9	4,4'-DDE	1	✓ 0.055		
959-98-8	Endosulfan I	1	0.0020	U	
60-57-1	Dieldrin	1	0.0020	U	
72-20-8	Endrin	1	0.00064	JP	J for Y
33213-65-9	Endosulfan II	1	0.0020	U	
7421-93-4	Endrin aldehyde	1	0.0020	U	
72-43-5	Methoxychlor	1	0.0020	U	
1031-07-8	Endosulfan sulfate	1	0.0020	U	
53494-70-5	Endrin ketone	1	0.0020	U	
8001-35-2	Toxaphene	1	0.039	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0399	0.0228	57	70 - 125	*
DBC	0.0399	0.0327	82	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB094-06-112806

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-10RE1	File ID:	9LRA011-0
Sampled:	11/28/06 14:25	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 16:43
Solids:	83.58	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	100	1.9	✓ D
50-29-3	4,4'-DDT	100	4.9	✓ DJ for A

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB095-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-11	File ID:	9LHA043-0
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 06:49
Solids:	94.74	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.00032	✓	J
58-89-9	gamma-BHC	1	0.0028	✓	
319-85-7	beta-BHC	1	0.0029	✓	
319-86-8	delta-BHC	1	0.00074	✓	J
76-44-8	Heptachlor	1	0.0011	✓	J
309-00-2	Aldrin	1	0.0018		U
959-98-8	Endosulfan I	1	0.0018		U
33213-65-9	Endosulfan II	1	0.044		P
7421-93-4	Endrin aldehyde	1	0.014		P
53494-70-5	Endrin ketone	1	0.0040		P
8001-35-2	Toxaphene	1	0.035		U
1031-07-8	Endosulfan sulfate	1	0.020		P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	%REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0352	0.0213	60	70 - 125	*
DBC	0.0352	0.0753	214	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB095-01-112806

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-11RE1	File ID:	9LRA015.D
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 18:26
Solids:	94.74	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
1024-57-3	Heptachlor epoxide	20	0.14	DP	J for 4
72-55-9	4,4'-DDE	20	0.86	D	
60-57-1	Dieldrin	20	0.80	D	
72-20-8	Endrin	20	0.15	DP	J for 4
72-54-8	4,4'-DDD	20	0.11	D	J for 4
72-43-5	Methoxychlor	20	0.14	DP	R for 4

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB095-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-11RE2	File ID:	9LVA005-0
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/27/06 11:38
Solids:	94.74	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
~~72-54-8~~	~~4,4'-DDD~~	~~2000~~	~~1.1~~	~~JD~~	J for U
~~33213-65-9~~	~~Endosulfan II~~	~~2000~~	~~3.5~~	~~UD~~	
50-29-3	4,4'-DDT	2000	8.0	✓ D	J for A/C

* Values outside of QC limits

ALPHA CHLORDANE	2000	0.55	U
GAMMA CHLORDANE	2000	0.49	U

3-7-07
JAI

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB095-06-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-12	File ID:	9LHA044-0
Sampled:	11/28/06 14:46	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 07:15
Solids:	83.80	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0020	U	
58-89-9	gamma-BHC	1	0.0020	U	
319-85-7	beta-BHC	1	0.0020	U	
319-86-8	delta-BHC	1	0.0020	U	
76-44-8	Heptachlor	1	0.0020	U	
309-00-2	Aldrin	1	0.0020	U	
1024-57-3	Heptachlor epoxide	1	0.0020	U	
NA	Chlordane-gamma	1	0.0020	U	
NA	Chlordane-alpha	1	0.0020	U	
72-55-9	4,4'-DDE	1	0.0020	U	
959-98-8	Endosulfan I	1	0.0020	U	
60-57-1	Dieldrin	1	0.0020	U	
72-20-8	Endrin	1	0.0020	U	
72-54-8	4,4'-DDD	1	0.0020	U	
33213-65-9	Endosulfan II	1	0.0020	U	
50-29-3	4,4'-DDT	1	0.00044	J	j for 4
7421-93-4	Endrin aldehyde	1	0.0020	U	
72-43-5	Methoxychlor	1	0.00091	JP	R for 4 (5 for 4)
1031-07-8	Endosulfan sulfate	1	0.0020	U	
53494-70-5	Endrin ketone	1	0.00052	JP	R for 4
8001-35-2	Toxaphene	1	0.039	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0398	0.0278	70	70 - 125	
DBC	0.0398	0.0310	78	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB097-01-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-13	File ID:	9LHA045-0
Sampled:	11/28/06 15:10	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 07:41
Solids:	95.61	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0017	U	
58-89-9	gamma-BHC	1	0.0017	U	
319-85-7	beta-BHC	1	0.00049	JP	J for U
319-86-8	delta-BHC	1	0.0017	U	
76-44-8	Heptachlor	1	0.0017	U	
309-00-2	Aldrin	1	0.0017	U	
1024-57-3	Heptachlor epoxide	1	0.0017	J	U for U
NA	Chlordane-gamma	1	0.0062	P	J for UEA
NA	Chlordane-alpha	1	0.0017	U	
959-98-8	Endosulfan I	1	0.0017	U	
60-57-1	Dieldrin	1	0.0017	P	J for U
72-20-8	Endrin	1	0.0017	U	
33213-65-9	Endosulfan II	1	0.0017	U	
7421-93-4	Endrin aldehyde	1	0.00098	JP	J for U
72-43-5	Methoxychlor	1	0.0016	J	J for P
53494-70-5	Endrin ketone	1	0.0017	U	
8001-35-2	Toxaphene	1	0.035	U	
72-54-8	4,4'-DDD	1	0.0074	✓	
1031-07-8	Endosulfan sulfate	1	0.00031	JP	R for U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0349	0.0258	74	70 - 125	
DBC	0.0349	0.0369	106	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB097-01-112806

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-13RE1	File ID:	9LRA017-0
Sampled:	11/28/06 15:10	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 19:18
Solids:	95.61	Preparation:	EPA 3545	Initial/Final:	15 g/5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4′-DDE	10	0.13	✓ D
50-29-3	4,4′-DDT	10	0.14	✓ DJ

A

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB097-06-112806

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-14	File ID:	9LHA046-0
Sampled:	11/28/06 15:15	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 08:07
Solids:	80.61	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0021	U	
58-89-9	gamma-BHC	1	0.0021	U	
319-85-7	beta-BHC	1	0.0021	U	
319-86-8	delta-BHC	1	0.0021	U	
76-44-8	Heptachlor	1	0.0021	U	
309-00-2	Aldrin	1	0.0021	U	
1024-57-3	Heptachlor epoxide	1	0.0021	U	
NA	Chlordane-gamma	1	0.0021	U	
NA	Chlordane-alpha	1	0.0021	U	
72-55-9	4,4'-DDE	1	0.00054	J	J for P
959-98-8	Endosulfan I	1	0.0021	U	
60-57-1	Dieldrin	1	0.0021	U	
72-20-8	Endrin	1	0.0021	U	
72-54-8	4,4'-DDD	1	0.0021	U	
33213-65-9	Endosulfan II	1	0.0021	U	
50-29-3	4,4'-DDT	1	0.00045	J	J for P
7421-93-4	Endrin aldehyde	1	0.0021	U	
72-43-5	Methoxychlor	1	0.0021	U	
1031-07-8	Endosulfan sulfate	1	0.0021	U	
53494-70-5	Endrin ketone	1	0.0021	U	
8001-35-2	Toxaphene	1	0.041	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0414	0.0321	78	70 - 125	
DBC	0.0414	0.0277	67	55 - 130	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081a. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits due to the sample matrix.
- The surrogate 2,4,5,6-TCMX for JAX47-SB094-06-112806 and JAX47-SB085-05-112906 was outside the DoD QSM control limits, however the surrogate was within the laboratory established control limits which are 54-153 for primary column and 55-152 for secondary column.
- The surrogate recovery for JAX47-SB095-01-112806 was outside the DoD QSM control limits due to sample matrix.
- JAX47-SB086-06-112906 was re-extracted outside of the method established hold time. Re-extraction was necessary due to the lack of surrogate noted in the primary extraction.
- CCVF was outside of DoD QSM control limits for 4,4-DDT, therefore results for this compound in any samples should be considered estimated.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.13 12:15:42 -05'00'

Christina M. Tompkins
Project Manager

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqe	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chad McG	11-30-06	1130	[signature]	11/30/06	1135 H
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-006

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB094-01-112806	B610307-09
JAX47-SB094-01-112806	B610307-09RE1
JAX47-SB094-01-112806	B610307-09RE2
JAX47-SB094-01-112806	B610307-09RE3
JAX47-SB094-06-112806	B610307-10
JAX47-SB094-06-112806	B610307-10RE1
JAX47-SB095-01-112806	B610307-11
JAX47-SB095-01-112806	B610307-11RE1
JAX47-SB095-01-112806	B610307-11RE2
JAX47-SB095-06-112806	B610307-12
JAX47-SB097-01-112806	B610307-13
JAX47-SB097-01-112806	B610307-13RE1
JAX47-SB097-06-112806	B610307-14
JAX47-SB084-01-112906	B610307-15
JAX47-SB084-01-112906	B610307-15RE1
JAX47-SB084-01-112906	B610307-15RE2
JAX47-SB084-05-112906	B610307-16
JAX47-SB085-01-112906	B610307-17
JAX47-SB085-05-112906	B610307-18
JAX47-SB086-01-112906	B610307-19
JAX47-SB086-06-112906	B610307-20RE1
JAX47-SB086-06-112906	B610307-20RE2

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, e=mail=ctompkins@encolabs.com, c=US Date: 2007.01.13 12:16:58 -05'00'

Name: Christina Tompkins

Date: 01/09/07

Title: Project Manager

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00091-IBL3	9A5B001A-0	01/05/07 12:56
Instrument Blank	BA00091-IBL3	9A5A001A-0	01/05/07 12:56
Performance Mix	BA00091-PEM3	9A5B002A-0	01/05/07 14:05
Performance Mix	BA00091-PEM3	9A5A002A-0	01/05/07 14:05
Calibration Check	BA00091-CCV7	9A5A003A-0	01/05/07 14:31
Calibration Check	BA00091-CCV7	9A5B003A-0	01/05/07 14:31
JAX47-SB084-05-112906	B610307-16	9A5A004A-0	01/05/07 14:57
JAX47-SB084-05-112906	B610307-16	9A5B004A-0	01/05/07 14:57
JAX47-SB085-05-112906	B610307-18	9A5A005A-0	01/05/07 15:23
JAX47-SB085-05-112906	B610307-18	9A5B005A-0	01/05/07 15:23
JAX47-SB086-01-112906	B610307-19	9A5B006A-0	01/05/07 15:49
JAX47-SB086-01-112906	B610307-19	9A5A006A-0	01/05/07 15:49
JAX47-SB085-01-112906	B610307-17	9A5A008-0	01/05/07 16:41
JAX47-SB085-01-112906	B610307-17	9A5B008-0	01/05/07 16:41
Calibration Check	BA00091-CCVH	9A5B009-0	01/05/07 17:07
Calibration Check	BA00091-CCVH	9A5A009-0	01/05/07 17:07
JAX47-SB084-01-112906	B610307-15	9A5A010-0	01/05/07 17:32
JAX47-SB084-01-112906	B610307-15	9A5B010-0	01/05/07 17:32
Calibration Check	BA00091-CCV8	9A5B011-0	01/05/07 17:58
Calibration Check	BA00091-CCV8	9A5A011-0	01/05/07 17:58
Instrument Blank	BA00091-IBL1	9LHA001-0	12/13/06 12:27
Instrument Blank	BA00091-IBL1	9LHB001-0	12/13/06 12:27
Performance Mix	BA00091-PEM1	9LHA035-0	12/14/06 03:21
Performance Mix	BA00091-PEM1	9LHB035-0	12/14/06 03:21
Calibration Check	BA00091-CCV1	9LHB036-0	12/14/06 03:47
Calibration Check	BA00091-CCV1	9LHA036-0	12/14/06 03:47
Blank	6L07024-BLK1	9LHA037-0	12/14/06 04:13
Blank	6L07024-BLK1	9LHB037-0	12/14/06 04:13
LCS	6L07024-BS1	9LHB038-0	12/14/06 04:39
LCS	6L07024-BS1	9LHA038-0	12/14/06 04:39
JAX47-SB089-02-113006	6L07024-MS1	9LHB039-0	12/14/06 05:05
JAX47-SB089-02-113006	6L07024-MS1	9LHA039-0	12/14/06 05:05

OK

DOT out

OK

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB089-02-113006	6L07024-MSD1	9LHA040-0	12/14/06 05:31
JAX47-SB089-02-113006	6L07024-MSD1	9LHB040-0	12/14/06 05:31
JAX47-SB094-01-112806	B610307-09	9LHA041-0	12/14/06 05:57
JAX47-SB094-01-112806	B610307-09	9LHB041-0	12/14/06 05:57
JAX47-SB094-06-112806	B610307-10	9LHA042-0	12/14/06 06:23
JAX47-SB094-06-112806	B610307-10	9LHB042-0	12/14/06 06:23
JAX47-SB095-01-112806	B610307-11	9LHA043-0	12/14/06 06:49
JAX47-SB095-01-112806	B610307-11	9LHB043-0	12/14/06 06:49
JAX47-SB095-06-112806	B610307-12	9LHB044-0	12/14/06 07:15
JAX47-SB095-06-112806	B610307-12	9LHA044-0	12/14/06 07:15
JAX47-SB097-01-112806	B610307-13	9LHA045-0	12/14/06 07:41
JAX47-SB097-01-112806	B610307-13	9LHB045-0	12/14/06 07:41
JAX47-SB097-06-112806	B610307-14	9LHB046-0	12/14/06 08:07
JAX47-SB097-06-112806	B610307-14	9LHA046-0	12/14/06 08:07
Calibration Check	BA00091-CCV2	9LHA047-0	12/14/06 08:33
Calibration Check	BA00091-CCV2	9LHB047-0	12/14/06 08:33
Instrument Blank	BA00091-IBL2	9LQB020-0	12/22/06 20:51
Instrument Blank	BA00091-IBL2	9LQA020-0	12/22/06 20:51
Performance Mix	BA00091-PEM2	9LQB021-0	12/22/06 21:17
Performance Mix	BA00091-PEM2	9LQA021-0	12/22/06 21:17
Instrument Blank	BA00091-IBL4	9LRB001A-0	12/23/06 12:25
Instrument Blank	BA00091-IBL4	9LRA001A-0	12/23/06 12:25
Performance Mix	BA00091-PEM4	9LRB002A-0	12/23/06 12:51
Performance Mix	BA00091-PEM4	9LRA002A-0	12/23/06 12:51
Calibration Check	BA00091-CCV9	9LRB003A-0	12/23/06 13:17
Calibration Check	BA00091-CCV9	9LRA003A-0	12/23/06 13:17
JAX47-SB094-01-112806	B610307-09RE3	9LRB004-0	12/23/06 13:42
JAX47-SB094-01-112806	B610307-09RE3	9LRA004-0	12/23/06 13:42
Calibration Check	BA00091-CCVA	9LRA007-0	12/23/06 15:00
Calibration Check	BA00091-CCVA	9LRB007-0	12/23/06 15:00
JAX47-SB084-01-112906	B610307-15RE2	9LRB008-0	12/23/06 15:26
JAX47-SB084-01-112906	B610307-15RE2	9LRA008-0	12/23/06 15:26

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB094-01-112806	B610307-09RE2	9LRA009-0	12/23/06 15:51
JAX47-SB094-01-112806	B610307-09RE2	9LRB009-0	12/23/06 15:51
JAX47-SB094-06-112806	B610307-10RE1	9LRA011-0	12/23/06 16:43
JAX47-SB094-06-112806	B610307-10RE1	9LRB011-0	12/23/06 16:43
JAX47-SB084-01-112906	B610307-15RE1	9LRA013-0	12/23/06 17:35
JAX47-SB084-01-112906	B610307-15RE1	9LRB013-0	12/23/06 17:35
JAX47-SB094-01-112806	B610307-09RE1	9LRA014-0	12/23/06 18:01
JAX47-SB094-01-112806	B610307-09RE1	9LRB014-0	12/23/06 18:01
JAX47-SB095-01-112806	B610307-11RE1	9LRA015-0	12/23/06 18:26
JAX47-SB095-01-112806	B610307-11RE1	9LRB015-0	12/23/06 18:26
JAX47-SB097-01-112806	B610307-13RE1	9LRB017-0	12/23/06 19:18
JAX47-SB097-01-112806	B610307-13RE1	9LRA017-0	12/23/06 19:18
Calibration Check	BA00091-CCVB	9LRA018-0	12/23/06 19:44
Calibration Check	BA00091-CCVB	9LRB018-0	12/23/06 19:44
Instrument Blank	BA00091-IBL5	9LUA022-0	12/26/06 21:01
Instrument Blank	BA00091-IBL5	9LUB022-0	12/26/06 21:01
Performance Mix	BA00091-PEM5	9LUA023-0	12/26/06 21:27
Performance Mix	BA00091-PEM5	9LUB023-0	12/26/06 21:27
Instrument Blank	BA00091-IBL6	9LVB001-0	12/27/06 09:54
Instrument Blank	BA00091-IBL6	9LVA001-0	12/27/06 09:54
Performance Mix	BA00091-PEM6	9LVA002-0	12/27/06 10:20
Performance Mix	BA00091-PEM6	9LVB002-0	12/27/06 10:20
Calibration Check	BA00091-CCVF	9LVA003-0	12/27/06 10:46
Calibration Check	BA00091-CCVF	9LVB003-0	12/27/06 10:46
JAX47-SB095-01-112806	B610307-11RE2	9LVB005-0	12/27/06 11:38
JAX47-SB095-01-112806	B610307-11RE2	9LVA005-0	12/27/06 11:38
Calibration Check	BA00091-CCVG	9LVB012-0	12/27/06 15:13
Calibration Check	BA00091-CCVG	9LVA012-0	12/27/06 15:13

OK

DDT Methoxy

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00107-IBL1	9LOB001-0	12/20/06 10:39
Instrument Blank	BA00107-IBL1	9LOA001-0	12/20/06 10:39
Performance Mix	BA00107-PEM1	9LOB002A-0	12/20/06 11:32
Performance Mix	BA00107-PEM1	9LOA002A-0	12/20/06 11:32
Calibration Check	BA00107-CCV1	9LOB003-0	12/20/06 11:59
Calibration Check	BA00107-CCV1	9LOA003-0	12/20/06 11:59
LCS	6L14027-BS1	9LOA005-0	12/20/06 12:50
LCS	6L14027-BS1	9LOB005-0	12/20/06 12:50
Blank	6L14027-BLK1	9LOB006-0	12/20/06 13:22
Blank	6L14027-BLK1	9LOA006-0	12/20/06 13:22
JAX47-SB086-06-112906	B610307-20RE1	9LOA011-0	12/20/06 15:31
JAX47-SB086-06-112906	B610307-20RE1	9LOB011-0	12/20/06 15:31
Calibration Check	BA00107-CCV2	9LOB013-0	12/20/06 16:23
Calibration Check	BA00107-CCV2	9LOA013-0	12/20/06 16:23
JAX47-SB110-01-113006	6L14027-MS1	9LOB015-0	12/20/06 17:14
JAX47-SB110-01-113006	6L14027-MS1	9LOA015-0	12/20/06 17:14
JAX47-SB110-01-113006	6L14027-MSD1	9LOA016-0	12/20/06 17:40
JAX47-SB110-01-113006	6L14027-MSD1	9LOB016-0	12/20/06 17:40
Calibration Check	BA00107-CCV3	9LOA017-0	12/20/06 18:06
Calibration Check	BA00107-CCV3	9LOB017-0	12/20/06 18:06
Instrument Blank	BA00107-IBL2	9LQA001-0	12/22/06 10:49
Instrument Blank	BA00107-IBL2	9LQB001-0	12/22/06 10:49
Performance Mix	BA00107-PEM2	9LQA002-0	12/22/06 11:14
Performance Mix	BA00107-PEM2	9LQB002-0	12/22/06 11:14
Calibration Check	BA00107-CCV4	9LQB012-0	12/22/06 16:24
Calibration Check	BA00107-CCV4	9LQA012-0	12/22/06 16:24
JAX47-SB086-06-112906	B610307-20RE2	9LQA013-0	12/22/06 16:50
JAX47-SB086-06-112906	B610307-20RE2	9LQB013-0	12/22/06 16:50
Calibration Check	BA00107-CCV5	9LQB019-0	12/22/06 20:17
Calibration Check	BA00107-CCV5	9LQA019-0	12/22/06 20:17

DO Tout

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHA036-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/14/06
Lab Sample ID:	BA00091-CCV1	Injection Time:	03:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0997	7.280474E+07	7.25731E+07		-0.3	20
gamma-BHC	A	0.100	0.0989	6.465721E+07	6.39284E+07		-1.1	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.36606E+07		1.9	20
delta-BHC	A	0.100	0.103	5.66961E+07	5.86276E+07		3.4	20
Heptachlor	A	0.100	0.0924	6.414063E+07	5.92846E+07		-7.6	20
Aldrin	A	0.100	0.0954	6.149162E+07	5.8642E+07		-4.6	20
Heptachlor epoxide	A	0.100	0.0918	5.405995E+07	4.9626E+07		-8.2	20
Chlordane-gamma	A	0.100	0.0944	5.527518E+07	5.21831E+07		-5.6	20
Chlordane-alpha	A	0.100	0.0935	5.296272E+07	4.95238E+07		-6.5	20
4,4′-DDE	A	0.100	0.0932	5.244698E+07	4.88808E+07		-6.8	20
Endosulfan I	A	0.100	0.0926	4.972951E+07	4.60694E+07		-7.4	20
Dieldrin	A	0.100	0.0932	5.436507E+07	5.06843E+07		-6.8	20
Endrin	A	0.100	0.0965	4.627937E+07	4.46704E+07		-3.5	20
4,4′-DDD	A	0.100	0.0944	4.00135E+07	3.77583E+07		-5.6	20
Endosulfan II	A	0.100	0.0932	4.442927E+07	4.1405E+07		-6.8	20
4,4′-DDT	A	0.100	0.0892	4.164772E+07	3.71382E+07		-10.8	20
Endrin aldehyde	A	0.100	0.0968	3.13612E+07	3.0361E+07		-3.2	20
Methoxychlor	A	0.100	0.0845	2.117353E+07	1.78814E+07		-15.5	20
Endosulfan sulfate	A	0.100	0.0992	3.673694E+07	3.64528E+07		-0.8	20
Endrin ketone	A	0.100	0.0938	4.568736E+07	4.28452E+07		-6.2	20
alpha-BHC [2C]	A	0.100	0.104	7.552835E+07	7.81735E+07		3.5	20
gamma-BHC [2C]	A	0.100	0.103	6.719113E+07	6.93831E+07		3.3	20
beta-BHC [2C]	A	0.100	0.107	2.472905E+07	2.64845E+07		7.1	20
delta-BHC [2C]	A	0.100	0.107	5.850208E+07	6.28348E+07		7.4	20
Heptachlor [2C]	A	0.100	0.0980	6.67268E+07	6.54022E+07		-2.0	20
Aldrin [2C]	A	0.100	0.100	6.357242E+07	6.35658E+07		-0.01	20
Heptachlor epoxide [2C]	A	0.100	0.0968	5.626251E+07	5.44535E+07		-3.2	20
Chlordane-gamma [2C]	A	0.100	0.100	5.722595E+07	5.72475E+07		0.04	20
Chlordane-alpha [2C]	A	0.100	0.0986	5.472749E+07	5.39515E+07		-1.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHB036-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/14/06
Lab Sample ID:	BA00091-CCV1	Injection Time:	03:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0999	5.341989E+07	5.33671E+07		-0.1	20
Endosulfan I [2C]	A	0.100	0.0977	5.087841E+07	4.97175E+07		-2.3	20
Dieldrin [2C]	A	0.100	0.0984	5.608619E+07	5.52145E+07		-1.6	20
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.71048E+07		2.3	20
4,4'-DDD [2C]	A	0.100	0.100	4.157866E+07	4.16996E+07		0.3	20
Endosulfan II [2C]	A	0.100	0.0986	4.58875E+07	4.52604E+07		-1.4	20
4,4'-DDT [2C]	A	0.100	0.0933	4.184652E+07	3.90577E+07		-6.7	20
Endrin aldehyde [2C]	A	0.100	0.103	3.232817E+07	3.31924E+07		2.7	20
Methoxychlor [2C]	A	0.100	0.0864	2.018515E+07	1.74422E+07		-13.6	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.836149E+07	4.00191E+07		4.3	20
Endrin ketone [2C]	A	0.100	0.0976	4.596086E+07	4.48756E+07		-2.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHA047-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/14/06
Lab Sample ID:	BA00091-CCV2	Injection Time:	08:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0957	7.280474E+07	6.96897E+07		-4.3	20
gamma-BHC	A	0.100	0.0956	6.465721E+07	6.17981E+07		-4.4	20
beta-BHC	A	0.100	0.0992	2.323065E+07	2.30449E+07		-0.8	20
delta-BHC	A	0.100	0.0998	5.66961E+07	5.65558E+07		-0.2	20
Heptachlor	A	0.100	0.0895	6.414063E+07	5.74076E+07		-10.5	20
Aldrin	A	0.100	0.0915	6.149162E+07	5.62523E+07		-8.5	20
Heptachlor epoxide	A	0.100	0.0886	5.405995E+07	4.79067E+07		-11.4	20
Chlordane-gamma	A	0.100	0.0903	5.527518E+07	4.98936E+07		-9.7	20
Chlordane-alpha	A	0.100	0.0890	5.296272E+07	4.7128E+07		-11.0	20
4,4'-DDE	A	0.100	0.0908	5.244698E+07	4.7621E+07		-9.2	20
Endosulfan I	A	0.100	0.0883	4.972951E+07	4.39192E+07		-11.7	20
Dieldrin	A	0.100	0.0897	5.436507E+07	4.87713E+07		-10.3	20
Endrin	A	0.100	0.0940	4.627937E+07	4.34888E+07		-6.0	20
4,4'-DDD	A	0.100	0.0943	4.00135E+07	3.77479E+07		-5.7	20
Endosulfan II	A	0.100	0.0891	4.442927E+07	3.96044E+07		-10.9	20
4,4'-DDT	A	0.100	0.0815	4.164772E+07	3.39422E+07		-18.5	20
Endrin aldehyde	A	0.100	0.0927	3.13612E+07	2.9067E+07		-7.3	20
Methoxychlor	A	0.100	0.0810	2.117353E+07	1.71416E+07		-19.0	20
Endosulfan sulfate	A	0.100	0.0942	3.673694E+07	3.45997E+07		-5.8	20
Endrin ketone	A	0.100	0.0906	4.568736E+07	4.14057E+07		-9.4	20
alpha-BHC [2C]	A	0.100	0.101	7.552835E+07	7.60099E+07		0.6	20
gamma-BHC [2C]	A	0.100	0.101	6.719113E+07	6.75951E+07		0.6	20
beta-BHC [2C]	A	0.100	0.105	2.472905E+07	2.59319E+07		4.9	20
delta-BHC [2C]	A	0.100	0.104	5.850208E+07	6.08291E+07		4.0	20
Heptachlor [2C]	A	0.100	0.0947	6.67268E+07	6.32E+07		-5.3	20
Aldrin [2C]	A	0.100	0.0963	6.357242E+07	6.12423E+07		-3.7	20
Heptachlor epoxide [2C]	A	0.100	0.0928	5.626251E+07	5.22329E+07		-7.2	20
Chlordane-gamma [2C]	A	0.100	0.0947	5.722595E+07	5.41949E+07		-5.3	20
Chlordane-alpha [2C]	A	0.100	0.0932	5.472749E+07	5.09935E+07		-6.8	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHB047-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/14/06
Lab Sample ID:	BA00091-CCV2	Injection Time:	08:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0955	5.341989E+07	5.10039E+07		-4.5	20
Endosulfan I [2C]	A	0.100	0.0929	5.087841E+07	4.72814E+07		-7.1	20
Dieldrin [2C]	A	0.100	0.0938	5.608619E+07	5.25997E+07		-6.2	20
Endrin [2C]	A	0.100	0.0998	4.605028E+07	4.59378E+07		-0.2	20
4,4'-DDD [2C]	A	0.100	0.0997	4.157866E+07	4.14596E+07		-0.3	20
Endosulfan II [2C]	A	0.100	0.0943	4.58875E+07	4.32719E+07		-5.7	20
4,4'-DDT [2C]	A	0.100	0.0862	4.184652E+07	3.60857E+07		-13.8	20
Endrin aldehyde [2C]	A	0.100	0.0971	3.232817E+07	3.13889E+07		-2.9	20
Methoxychlor [2C]	A	0.100	0.0847	2.018515E+07	1.70995E+07		-15.3	20
Endosulfan sulfate [2C]	A	0.100	0.0981	3.836149E+07	3.7614E+07		-1.9	20
Endrin ketone [2C]	A	0.100	0.0939	4.596086E+07	4.3144E+07		-6.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/26/06
Lab Sample ID:	BA00107-CCV1	Injection Time:	11:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0878	7.280474E+07	6.39148E+07		-12.2	20
gamma-BHC	A	0.100	0.0878	6.465721E+07	5.68009E+07		-12.2	20
beta-BHC	A	0.100	0.0911	2.323065E+07	2.1159E+07		-8.9	20
delta-BHC	A	0.100	0.0857	5.66961E+07	4.85966E+07		-14.3	20
Heptachlor	A	0.100	0.0876	6.414063E+07	5.61711E+07		-12.4	20
Aldrin	A	0.100	0.0864	6.149162E+07	5.31512E+07		-13.6	20
Heptachlor epoxide	A	0.100	0.0877	5.405995E+07	4.73864E+07		-12.3	20
Chlordane-gamma	A	0.100	0.0853	5.527518E+07	4.71511E+07		-14.7	20
Chlordane-alpha	A	0.100	0.0888	5.296272E+07	4.70087E+07		-11.2	20
4,4'-DDE	A	0.100	0.0881	5.244698E+07	4.61932E+07		-11.9	20
Endosulfan I	A	0.100	0.0862	4.972951E+07	4.2891E+07		-13.8	20
Dieldrin	A	0.100	0.0884	5.436507E+07	4.80431E+07		-11.6	20
Endrin	A	0.100	0.0932	4.627937E+07	4.31322E+07		-6.8	20
4,4'-DDD	A	0.100	0.0898	4.00135E+07	3.59511E+07		-10.2	20
Endosulfan II	A	0.100	0.0871	4.442927E+07	3.8718E+07		-12.9	20
4,4'-DDT	A	0.100	0.0844	4.164772E+07	3.51372E+07		-15.6	20
Endrin aldehyde	A	0.100	0.0880	3.13612E+07	2.75854E+07		-12.0	20
Methoxychlor	A	0.100	0.0862	2.117353E+07	1.82442E+07		-13.8	20
Endosulfan sulfate	A	0.100	0.0872	3.673694E+07	3.20484E+07		-12.8	20
Endrin ketone	A	0.100	0.0818	4.568736E+07	3.73513E+07		-18.2	20
alpha-BHC [2C]	A	0.100	0.0842	7.552835E+07	6.36054E+07		-15.8	20
gamma-BHC [2C]	A	0.100	0.0817	6.719113E+07	5.48947E+07		-18.3	20
beta-BHC [2C]	A	0.100	0.0849	2.472905E+07	2.09939E+07		-15.1	20
delta-BHC [2C]	A	0.100	0.0803	5.850208E+07	4.69584E+07		-19.7	20
Heptachlor [2C]	A	0.100	0.0816	6.67268E+07	5.44735E+07		-18.4	20
Aldrin [2C]	A	0.100	0.0845	6.357242E+07	5.37178E+07		-15.5	20
Heptachlor epoxide [2C]	A	0.100	0.0818	5.626251E+07	4.60264E+07		-18.2	20
Chlordane-gamma [2C]	A	0.100	0.0830	5.722595E+07	4.74716E+07		-17.0	20
Chlordane-alpha [2C]	A	0.100	0.0826	5.472749E+07	4.52075E+07		-17.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV1	Injection Time:	11:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0863	5.341989E+07	4.6076E+07		-13.7	20
Endosulfan I [2C]	A	0.100	0.0886	5.087841E+07	4.50699E+07		-11.4	20
Dieldrin [2C]	A	0.100	0.0863	5.608619E+07	4.83878E+07		-13.7	20
Endrin [2C]	A	0.100	0.0925	4.605028E+07	4.2604E+07		-7.5	20
4,4'-DDD [2C]	A	0.100	0.0884	4.157866E+07	3.67359E+07		-11.6	20
Endosulfan II [2C]	A	0.100	0.0865	4.58875E+07	3.96779E+07		-13.5	20
4,4'-DDT [2C]	A	0.100	0.0830	4.184652E+07	3.47485E+07		-17.0	20
Endrin aldehyde [2C]	A	0.100	0.0896	3.232817E+07	2.89568E+07		-10.4	20
Methoxychlor [2C]	A	0.100	0.0866	2.018515E+07	1.74848E+07		-13.4	20
Endosulfan sulfate [2C]	A	0.100	0.0873	3.836149E+07	3.34746E+07		-12.7	20
Endrin ketone [2C]	A	0.100	0.0799	4.596086E+07	3.6736E+07		-20.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV2	Injection Time:	16:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0920	7.280474E+07	6.69491E+07		-8.0	20
gamma-BHC	A	0.100	0.0909	6.465721E+07	5.88032E+07		-9.1	20
beta-BHC	A	0.100	0.0946	2.323065E+07	2.19685E+07		-5.4	20
delta-BHC	A	0.100	0.0935	5.66961E+07	5.30239E+07		-6.5	20
Heptachlor	A	0.100	0.0891	6.414063E+07	5.71192E+07		-10.9	20
Aldrin	A	0.100	0.0878	6.149162E+07	5.39983E+07		-12.2	20
Heptachlor epoxide	A	0.100	0.0886	5.405995E+07	4.7878E+07		-11.4	20
Chlordane-gamma	A	0.100	0.0865	5.527518E+07	4.78303E+07		-13.5	20
Chlordane-alpha	A	0.100	0.0859	5.296272E+07	4.5488E+07		-14.1	20
4,4′-DDE	A	0.100	0.0891	5.244698E+07	4.67156E+07		-10.9	20
Endosulfan I	A	0.100	0.0877	4.972951E+07	4.36098E+07		-12.3	20
Dieldrin	A	0.100	0.0893	5.436507E+07	4.8559E+07		-10.7	20
Endrin	A	0.100	0.0946	4.627937E+07	4.37989E+07		-5.4	20
4,4′-DDD	A	0.100	0.0895	4.00135E+07	3.58214E+07		-10.5	20
Endosulfan II	A	0.100	0.0861	4.442927E+07	3.82695E+07		-13.9	20
4,4′-DDT	A	0.100	0.0838	4.164772E+07	3.48838E+07		-16.2	20
Endrin aldehyde	A	0.100	0.0923	3.13612E+07	2.89476E+07		-7.7	20
Methoxychlor	A	0.100	0.0852	2.117353E+07	1.80302E+07		-14.8	20
Endosulfan sulfate	A	0.100	0.0944	3.673694E+07	3.46672E+07		-5.6	20
Endrin ketone	A	0.100	0.0869	4.568736E+07	3.97032E+07		-13.1	20
alpha-BHC [2C]	A	0.100	0.0911	7.552835E+07	6.88314E+07		-8.9	20
gamma-BHC [2C]	A	0.100	0.0902	6.719113E+07	6.06255E+07		-9.8	20
beta-BHC [2C]	A	0.100	0.0935	2.472905E+07	2.31295E+07		-6.5	20
delta-BHC [2C]	A	0.100	0.0868	5.850208E+07	5.07693E+07		-13.2	20
Heptachlor [2C]	A	0.100	0.0838	6.67268E+07	5.59353E+07		-16.2	20
Aldrin [2C]	A	0.100	0.0877	6.357242E+07	5.57535E+07		-12.3	20
Heptachlor epoxide [2C]	A	0.100	0.0819	5.626251E+07	4.60595E+07		-18.1	20
Chlordane-gamma [2C]	A	0.100	0.0846	5.722595E+07	4.84389E+07		-15.4	20
Chlordane-alpha [2C]	A	0.100	0.0845	5.472749E+07	4.62558E+07		-15.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV2	Injection Time:	16:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0888	5.341989E+07	4.74223E+07		-11.2	20
Endosulfan I [2C]	A	0.100	0.0866	5.087841E+07	4.40416E+07		-13.4	20
Dieldrin [2C]	A	0.100	0.0880	5.608619E+07	4.93447E+07		-12.0	20
Endrin [2C]	A	0.100	0.0944	4.605028E+07	4.34611E+07		-5.6	20
4,4'-DDD [2C]	A	0.100	0.0902	4.157866E+07	3.7523E+07		-9.8	20
Endosulfan II [2C]	A	0.100	0.0831	4.58875E+07	3.81321E+07		-16.9	20
4,4'-DDT [2C]	A	0.100	0.0802	4.184652E+07	3.35788E+07		-19.8	20
Endrin aldehyde [2C]	A	0.100	0.0917	3.232817E+07	2.96325E+07		-8.3	20
Methoxychlor [2C]	A	0.100	0.0857	2.018515E+07	1.73014E+07		-14.3	20
Endosulfan sulfate [2C]	A	0.100	0.0927	3.836149E+07	3.55683E+07		-7.3	20
Endrin ketone [2C]	A	0.100	0.0844	4.596086E+07	3.87998E+07		-15.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV4	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.106	7.280474E+07	7.68885E+07		5.6	20
gamma-BHC	A	0.100	0.106	6.465721E+07	6.84021E+07		5.8	20
beta-BHC	A	0.100	0.108	2.323065E+07	2.51638E+07		8.3	20
delta-BHC	A	0.100	0.107	5.66961E+07	6.09052E+07		7.4	20
Heptachlor	A	0.100	0.0984	6.414063E+07	6.31121E+07		-1.6	20
Aldrin	A	0.100	0.102	6.149162E+07	6.28457E+07		2.2	20
Heptachlor epoxide	A	0.100	0.0988	5.405995E+07	5.34168E+07		-1.2	20
Chlordane-gamma	A	0.100	0.102	5.527518E+07	5.62541E+07		1.8	20
Chlordane-alpha	A	0.100	0.102	5.296272E+07	5.37942E+07		1.6	20
4,4'-DDE	A	0.100	0.0987	5.244698E+07	5.1753E+07		-1.3	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.04107E+07		1.4	20
Dieldrin	A	0.100	0.100	5.436507E+07	5.45375E+07		0.3	20
Endrin	A	0.100	0.102	4.627937E+07	4.71379E+07		1.9	20
4,4'-DDD	A	0.100	0.0999	4.00135E+07	3.99588E+07		-0.1	20
Endosulfan II	A	0.100	0.0995	4.442927E+07	4.42009E+07		-0.5	20
4,4'-DDT	A	0.100	0.100	4.164772E+07	4.17831E+07		0.3	20
Endrin aldehyde	A	0.100	0.106	3.13612E+07	3.30975E+07		5.5	20
Methoxychlor	A	0.100	0.0900	2.117353E+07	1.90556E+07		-10.0	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.73148E+07		1.6	20
Endrin ketone	A	0.100	0.0974	4.568736E+07	4.45066E+07		-2.6	20
alpha-BHC [2C]	A	0.100	0.106	7.552835E+07	8.01853E+07		6.2	20
gamma-BHC [2C]	A	0.100	0.106	6.719113E+07	7.14683E+07		6.4	20
beta-BHC [2C]	A	0.100	0.111	2.472905E+07	2.74034E+07		10.8	20
delta-BHC [2C]	A	0.100	0.110	5.850208E+07	6.4283E+07		9.9	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.84272E+07		2.5	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.62091E+07		4.1	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.66261E+07		0.6	20
Chlordane-gamma [2C]	A	0.100	0.105	5.722595E+07	6.0018E+07		4.9	20
Chlordane-alpha [2C]	A	0.100	0.103	5.472749E+07	5.61833E+07		2.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV4	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.104	5.341989E+07	5.53691E+07		3.6	20
Endosulfan I [2C]	A	0.100	0.102	5.087841E+07	5.17736E+07		1.8	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.74068E+07		2.4	20
Endrin [2C]	A	0.100	0.104	4.605028E+07	4.76899E+07		3.6	20
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.24848E+07		2.2	20
Endosulfan II [2C]	A	0.100	0.102	4.58875E+07	4.67259E+07		1.8	20
4,4'-DDT [2C]	A	0.100	0.103	4.184652E+07	4.32596E+07		3.4	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.48409E+07		7.8	20
Methoxychlor [2C]	A	0.100	0.0949	2.018515E+07	1.91563E+07		-5.1	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.836149E+07	3.98218E+07		3.8	20
Endrin ketone [2C]	A	0.100	0.0990	4.596086E+07	4.54807E+07		-1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA019-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV5	Injection Time:	20:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.107	7.280474E+07	7.79407E+07		7.1	20
gamma-BHC	A	0.100	0.107	6.465721E+07	6.91652E+07		7.0	20
beta-BHC	A	0.100	0.110	2.323065E+07	2.55602E+07		10.0	20
delta-BHC	A	0.100	0.110	5.66961E+07	6.26225E+07		10.5	20
Heptachlor	A	0.100	0.0991	6.414063E+07	6.35562E+07		-0.9	20
Aldrin	A	0.100	0.103	6.149162E+07	6.31769E+07		2.7	20
Heptachlor epoxide	A	0.100	0.0984	5.405995E+07	5.31737E+07		-1.6	20
Chlordane-gamma	A	0.100	0.102	5.527518E+07	5.62493E+07		1.8	20
Chlordane-alpha	A	0.100	0.101	5.296272E+07	5.33927E+07		0.8	20
4,4'-DDE	A	0.100	0.0994	5.244698E+07	5.21543E+07		-0.6	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.00354E+07		0.6	20
Dieldrin	A	0.100	0.0998	5.436507E+07	5.4236E+07		-0.2	20
Endrin	A	0.100	0.103	4.627937E+07	4.76863E+07		3.0	20
4,4'-DDD	A	0.100	0.101	4.00135E+07	4.02511E+07		0.6	20
Endosulfan II	A	0.100	0.0995	4.442927E+07	4.42105E+07		-0.5	20
4,4'-DDT	A	0.100	0.100	4.164772E+07	4.18581E+07		0.5	20
Endrin aldehyde	A	0.100	0.103	3.13612E+07	3.2394E+07		3.3	20
Methoxychlor	A	0.100	0.0915	2.117353E+07	1.93667E+07		-8.5	20
Endosulfan sulfate	A	0.100	0.103	3.673694E+07	3.77282E+07		2.7	20
Endrin ketone	A	0.100	0.0984	4.568736E+07	4.49701E+07		-1.6	20
alpha-BHC [2C]	A	0.100	0.109	7.552835E+07	8.25105E+07		9.2	20
gamma-BHC [2C]	A	0.100	0.110	6.719113E+07	7.3573E+07		9.5	20
beta-BHC [2C]	A	0.100	0.114	2.472905E+07	2.81749E+07		13.9	20
delta-BHC [2C]	A	0.100	0.114	5.850208E+07	6.65008E+07		13.7	20
Heptachlor [2C]	A	0.100	0.105	6.67268E+07	7.01776E+07		5.2	20
Aldrin [2C]	A	0.100	0.107	6.357242E+07	6.78567E+07		6.7	20
Heptachlor epoxide [2C]	A	0.100	0.103	5.626251E+07	5.77994E+07		2.7	20
Chlordane-gamma [2C]	A	0.100	0.107	5.722595E+07	6.14617E+07		7.4	20
Chlordane-alpha [2C]	A	0.100	0.105	5.472749E+07	5.75381E+07		5.1	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB019-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV5	Injection Time:	20:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.106	5.341989E+07	5.67409E+07		6.2	20
Endosulfan I [2C]	A	0.100	0.104	5.087841E+07	5.29661E+07		4.1	20
Dieldrin [2C]	A	0.100	0.105	5.608619E+07	5.86404E+07		4.6	20
Endrin [2C]	A	0.100	0.107	4.605028E+07	4.9297E+07		7.1	20
4,4'-DDD [2C]	A	0.100	0.105	4.157866E+07	4.35631E+07		4.8	20
Endosulfan II [2C]	A	0.100	0.104	4.58875E+07	4.77632E+07		4.1	20
4,4'-DDT [2C]	A	0.100	0.106	4.184652E+07	4.43489E+07		6.0	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.4965E+07		8.2	20
Methoxychlor [2C]	A	0.100	0.0961	2.018515E+07	1.93955E+07		-3.9	20
Endosulfan sulfate [2C]	A	0.100	0.107	3.836149E+07	4.11821E+07		7.4	20
Endrin ketone [2C]	A	0.100	0.102	4.596086E+07	4.69054E+07		2.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRA003A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCV9	Injection Time:	13:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0929	7.280474E+07	6.76473E+07		-7.1	20
gamma-BHC	A	0.100	0.0944	6.465721E+07	6.10659E+07		-5.6	20
beta-BHC	A	0.100	0.0975	2.323065E+07	2.26572E+07		-2.5	20
delta-BHC	A	0.100	0.0968	5.66961E+07	5.48592E+07		-3.2	20
Heptachlor	A	0.100	0.0910	6.414063E+07	5.83993E+07		-9.0	20
Aldrin	A	0.100	0.0918	6.149162E+07	5.64233E+07		-8.2	20
Heptachlor epoxide	A	0.100	0.0900	5.405995E+07	4.86738E+07		-10.0	20
Chlordane-gamma	A	0.100	0.0903	5.527518E+07	4.98964E+07		-9.7	20
Chlordane-alpha	A	0.100	0.0892	5.296272E+07	4.72233E+07		-10.8	20
4,4′-DDE	A	0.100	0.0889	5.244698E+07	4.66213E+07		-11.1	20
Endosulfan I	A	0.100	0.0890	4.972951E+07	4.42533E+07		-11.0	20
Dieldrin	A	0.100	0.0881	5.436507E+07	4.78706E+07		-11.9	20
Endrin	A	0.100	0.0890	4.627937E+07	4.11886E+07		-11.0	20
4,4′-DDD	A	0.100	0.0915	4.00135E+07	3.66197E+07		-8.5	20
Endosulfan II	A	0.100	0.0895	4.442927E+07	3.97491E+07		-10.5	20
4,4′-DDT	A	0.100	0.0922	4.164772E+07	3.83907E+07		-7.8	20
Endrin aldehyde	A	0.100	0.0973	3.13612E+07	3.05229E+07		-2.7	20
Methoxychlor	A	0.100	0.0864	2.117353E+07	1.82988E+07		-13.6	20
Endosulfan sulfate	A	0.100	0.0941	3.673694E+07	3.45754E+07		-5.9	20
Endrin ketone	A	0.100	0.0920	4.568736E+07	4.20228E+07		-8.0	20
alpha-BHC [2C]	A	0.100	0.0921	7.552835E+07	6.95548E+07		-7.9	20
gamma-BHC [2C]	A	0.100	0.0923	6.719113E+07	6.2017E+07		-7.7	20
beta-BHC [2C]	A	0.100	0.0970	2.472905E+07	2.39814E+07		-3.0	20
delta-BHC [2C]	A	0.100	0.0963	5.850208E+07	5.63273E+07		-3.7	20
Heptachlor [2C]	A	0.100	0.0905	6.67268E+07	6.03802E+07		-9.5	20
Aldrin [2C]	A	0.100	0.0907	6.357242E+07	5.76292E+07		-9.3	20
Heptachlor epoxide [2C]	A	0.100	0.0892	5.626251E+07	5.02077E+07		-10.8	20
Chlordane-gamma [2C]	A	0.100	0.0892	5.722595E+07	5.10474E+07		-10.8	20
Chlordane-alpha [2C]	A	0.100	0.0872	5.472749E+07	4.77284E+07		-12.8	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRB003A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCV9	Injection Time:	13:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0894	5.341989E+07	4.77633E+07		-10.6	20
Endosulfan I [2C]	A	0.100	0.0885	5.087841E+07	4.50497E+07		-11.5	20
Dieldrin [2C]	A	0.100	0.0893	5.608619E+07	5.00891E+07		-10.7	20
Endrin [2C]	A	0.100	0.0888	4.605028E+07	4.08952E+07		-11.2	20
4,4'-DDD [2C]	A	0.100	0.0902	4.157866E+07	3.74931E+07		-9.8	20
Endosulfan II [2C]	A	0.100	0.0895	4.58875E+07	4.10501E+07		-10.5	20
4,4'-DDT [2C]	A	0.100	0.0912	4.184652E+07	3.8158E+07		-8.8	20
Endrin aldehyde [2C]	A	0.100	0.0970	3.232817E+07	3.13603E+07		-3.0	20
Methoxychlor [2C]	A	0.100	0.0861	2.018515E+07	1.73839E+07		-13.9	20
Endosulfan sulfate [2C]	A	0.100	0.0939	3.836149E+07	3.6003E+07		-6.1	20
Endrin ketone [2C]	A	0.100	0.0908	4.596086E+07	4.17156E+07		-9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JSVGCECD2
Calibration: 0612008
Lab File ID: 9LVA003-0
Calibration Date: 12/12/06 13:26
Sequence: BA00091
Injection Date: 12/27/06
Lab Sample ID: BA00091-CCVF
Injection Time: 10:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0997	7.280474E+07	7.25924E+07		-0.3	20	
gamma-BHC	A	0.100	0.0990	6.465721E+07	6.40398E+07		-1.0	20	
beta-BHC	A	0.100	0.103	2.323065E+07	2.39071E+07		2.9	20	
delta-BHC	A	0.100	0.103	5.66961E+07	5.82865E+07		2.8	20	
Heptachlor	A	0.100	0.0914	6.414063E+07	5.86379E+07		-8.6	20	
Aldrin	A	0.100	0.0948	6.149162E+07	5.8295E+07		-5.2	20	
Heptachlor epoxide	A	0.100	0.0910	5.405995E+07	4.92063E+07		-9.0	20	
Chlordane-gamma	A	0.100	0.0931	5.527518E+07	5.1484E+07		-6.9	20	
Chlordane-alpha	A	0.100	0.0916	5.296272E+07	4.85115E+07		-8.4	20	
4,4′-DDE	A	0.100	0.0922	5.244698E+07	4.83367E+07		-7.8	20	
Endosulfan I	A	0.100	0.0915	4.972951E+07	4.55168E+07		-8.5	20	
Dieldrin	A	0.100	0.0907	5.436507E+07	4.93325E+07		-9.3	20	
Endrin	A	0.100	0.0942	4.627937E+07	4.36153E+07		-5.8	20	
4,4′-DDD	A	0.100	0.102	4.00135E+07	4.06726E+07		1.6	20	
Endosulfan II	A	0.100	0.0913	4.442927E+07	4.05583E+07		-8.7	20	
4,4′-DDT	A	0.100	0.0777	4.164772E+07	3.23503E+07		-22.3	20	*
Endrin aldehyde	A	0.100	0.0904	3.13612E+07	2.83407E+07		-9.6	20	
Methoxychlor	A	0.100	0.0757	2.117353E+07	1.60359E+07		-24.3	20	*
Endosulfan sulfate	A	0.100	0.0931	3.673694E+07	3.41958E+07		-6.9	20	
Endrin ketone	A	0.100	0.0898	4.568736E+07	4.1011E+07		-10.2	20	
alpha-BHC [2C]	A	0.100	0.0979	7.552835E+07	7.39392E+07		-2.1	20	
gamma-BHC [2C]	A	0.100	0.0973	6.719113E+07	6.53996E+07		-2.7	20	
beta-BHC [2C]	A	0.100	0.103	2.472905E+07	2.54112E+07		2.8	20	
delta-BHC [2C]	A	0.100	0.101	5.850208E+07	5.92388E+07		1.3	20	
Heptachlor [2C]	A	0.100	0.0918	6.67268E+07	6.1281E+07		-8.2	20	
Aldrin [2C]	A	0.100	0.0947	6.357242E+07	6.01756E+07		-5.3	20	
Heptachlor epoxide [2C]	A	0.100	0.0911	5.626251E+07	5.12632E+07		-8.9	20	
Chlordane-gamma [2C]	A	0.100	0.0940	5.722595E+07	5.38033E+07		-6.0	20	
Chlordane-alpha [2C]	A	0.100	0.0914	5.472749E+07	5.00337E+07		-8.6	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVF	Injection Time:	10:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0934	5.341989E+07	4.98687E+07		-6.6	20	
Endosulfan I [2C]	A	0.100	0.0911	5.087841E+07	4.63457E+07		-8.9	20	
Dieldrin [2C]	A	0.100	0.0916	5.608619E+07	5.13501E+07		-8.4	20	
Endrin [2C]	A	0.100	0.0941	4.605028E+07	4.3312E+07		-5.9	20	
4,4'-DDD [2C]	A	0.100	0.101	4.157866E+07	4.1829E+07		0.6	20	
Endosulfan II [2C]	A	0.100	0.0917	4.58875E+07	4.20639E+07		-8.3	20	
4,4'-DDT [2C]	A	0.100	0.0773	4.184652E+07	3.23426E+07		-22.7	20	*
Endrin aldehyde [2C]	A	0.100	0.0908	3.232817E+07	2.93511E+07		-9.2	20	
Methoxychlor [2C]	A	0.100	0.0758	2.018515E+07	1.53025E+07		-24.2	20	*
Endosulfan sulfate [2C]	A	0.100	0.0928	3.836149E+07	3.55966E+07		-7.2	20	
Endrin ketone [2C]	A	0.100	0.0889	4.596086E+07	4.08726E+07		-11.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVG	Injection Time:	15:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0957	7.280474E+07	6.96738E+07		-4.3	20	
gamma-BHC	A	0.100	0.0939	6.465721E+07	6.06855E+07		-6.1	20	
beta-BHC	A	0.100	0.0958	2.323065E+07	2.22573E+07		-4.2	20	
delta-BHC	A	0.100	0.0972	5.66961E+07	5.5136E+07		-2.8	20	
Heptachlor	A	0.100	0.0877	6.414063E+07	5.62688E+07		-12.3	20	
Aldrin	A	0.100	0.0890	6.149162E+07	5.47569E+07		-11.0	20	
Heptachlor epoxide	A	0.100	0.0836	5.405995E+07	4.52067E+07		-16.4	20	
Chlordane-gamma	A	0.100	0.0842	5.527518E+07	4.65632E+07		-15.8	20	
Chlordane-alpha	A	0.100	0.0836	5.296272E+07	4.42932E+07		-16.4	20	
4,4´-DDE	A	0.100	0.0850	5.244698E+07	4.4582E+07		-15.0	20	
Endosulfan I	A	0.100	0.0835	4.972951E+07	4.15456E+07		-16.5	20	
Dieldrin	A	0.100	0.0847	5.436507E+07	4.60582E+07		-15.3	20	
Endrin	A	0.100	0.0901	4.627937E+07	4.16968E+07		-9.9	20	
4,4´-DDD	A	0.100	0.0956	4.00135E+07	3.82668E+07		-4.4	20	
Endosulfan II	A	0.100	0.0835	4.442927E+07	3.70851E+07		-16.5	20	
4,4´-DDT	A	0.100	0.0723	4.164772E+07	3.01195E+07		-27.7	20	*
Endrin aldehyde	A	0.100	0.0814	3.13612E+07	2.55419E+07		-18.6	20	
Methoxychlor	A	0.100	0.0732	2.117353E+07	1.55089E+07		-26.8	20	*
Endosulfan sulfate	A	0.100	0.0903	3.673694E+07	3.31788E+07		-9.7	20	
Endrin ketone	A	0.100	0.0861	4.568736E+07	3.93552E+07		-13.9	20	
alpha-BHC [2C]	A	0.100	0.0962	7.552835E+07	7.26399E+07		-3.8	20	
gamma-BHC [2C]	A	0.100	0.0924	6.719113E+07	6.21022E+07		-7.6	20	
beta-BHC [2C]	A	0.100	0.0952	2.472905E+07	2.35417E+07		-4.8	20	
delta-BHC [2C]	A	0.100	0.0940	5.850208E+07	5.49634E+07		-6.0	20	
Heptachlor [2C]	A	0.100	0.0861	6.67268E+07	5.74366E+07		-13.9	20	
Aldrin [2C]	A	0.100	0.0860	6.357242E+07	5.46993E+07		-14.0	20	
Heptachlor epoxide [2C]	A	0.100	0.0821	5.626251E+07	4.61949E+07		-17.9	20	
Chlordane-gamma [2C]	A	0.100	0.0778	5.722595E+07	4.45063E+07		-22.2	20	*
Chlordane-alpha [2C]	A	0.100	0.0767	5.472749E+07	4.19729E+07		-23.3	20	*

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVG	Injection Time:	15:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0830	5.341989E+07	4.43336E+07		-17.0	20	
Endosulfan I [2C]	A	0.100	0.0787	5.087841E+07	4.00628E+07		-21.3	20	*
Dieldrin [2C]	A	0.100	0.0839	5.608619E+07	4.70617E+07		-16.1	20	
Endrin [2C]	A	0.100	0.0909	4.605028E+07	4.18631E+07		-9.1	20	
4,4'-DDD [2C]	A	0.100	0.0931	4.157866E+07	3.87194E+07		-6.9	20	
Endosulfan II [2C]	A	0.100	0.0838	4.58875E+07	3.84502E+07		-16.2	20	
4,4'-DDT [2C]	A	0.100	0.0732	4.184652E+07	3.0619E+07		-26.8	20	*
Endrin aldehyde [2C]	A	0.100	0.0785	3.232817E+07	2.53709E+07		-21.5	20	*
Methoxychlor [2C]	A	0.100	0.0756	2.018515E+07	1.52558E+07		-24.4	20	*
Endosulfan sulfate [2C]	A	0.100	0.0860	3.836149E+07	3.30051E+07		-14.0	20	
Endrin ketone [2C]	A	0.100	0.0849	4.596086E+07	3.90117E+07		-15.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A5A003A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/05/07
Lab Sample ID:	BA00091-CCV7	Injection Time:	14:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0931	7.280474E+07	6.77766E+07		-6.9	20
gamma-BHC	A	0.100	0.0936	6.465721E+07	6.04967E+07		-6.4	20
beta-BHC	A	0.100	0.0965	2.323065E+07	2.24223E+07		-3.5	20
delta-BHC	A	0.100	0.0958	5.66961E+07	5.42895E+07		-4.2	20
Heptachlor	A	0.100	0.0908	6.414063E+07	5.82516E+07		-9.2	20
Aldrin	A	0.100	0.0910	6.149162E+07	5.59647E+07		-9.0	20
Heptachlor epoxide	A	0.100	0.0900	5.405995E+07	4.86376E+07		-10.0	20
Chlordane-gamma	A	0.100	0.0897	5.527518E+07	4.95851E+07		-10.3	20
Chlordane-alpha	A	0.100	0.0884	5.296272E+07	4.68195E+07		-11.6	20
4,4′-DDE	A	0.100	0.0900	5.244698E+07	4.71854E+07		-10.0	20
Endosulfan I	A	0.100	0.0895	4.972951E+07	4.44865E+07		-10.5	20
Dieldrin	A	0.100	0.0899	5.436507E+07	4.88827E+07		-10.1	20
Endrin	A	0.100	0.0906	4.627937E+07	4.19181E+07		-9.4	20
4,4′-DDD	A	0.100	0.0935	4.00135E+07	3.73942E+07		-6.5	20
Endosulfan II	A	0.100	0.0904	4.442927E+07	4.01742E+07		-9.6	20
4,4′-DDT	A	0.100	0.0917	4.164772E+07	3.81909E+07		-8.3	20
Endrin aldehyde	A	0.100	0.0980	3.13612E+07	3.07321E+07		-2.0	20
Methoxychlor	A	0.100	0.0874	2.117353E+07	1.85139E+07		-12.6	20
Endosulfan sulfate	A	0.100	0.0929	3.673694E+07	3.41116E+07		-7.1	20
Endrin ketone	A	0.100	0.0913	4.568736E+07	4.16996E+07		-8.7	20
alpha-BHC [2C]	A	0.100	0.0896	7.552835E+07	6.77106E+07		-10.4	20
gamma-BHC [2C]	A	0.100	0.0903	6.719113E+07	6.06847E+07		-9.7	20
beta-BHC [2C]	A	0.100	0.0942	2.472905E+07	2.32834E+07		-5.8	20
delta-BHC [2C]	A	0.100	0.0940	5.850208E+07	5.49852E+07		-6.0	20
Heptachlor [2C]	A	0.100	0.0884	6.67268E+07	5.89687E+07		-11.6	20
Aldrin [2C]	A	0.100	0.0887	6.357242E+07	5.63704E+07		-11.3	20
Heptachlor epoxide [2C]	A	0.100	0.0877	5.626251E+07	4.93346E+07		-12.3	20
Chlordane-gamma [2C]	A	0.100	0.0876	5.722595E+07	5.0115E+07		-12.4	20
Chlordane-alpha [2C]	A	0.100	0.0855	5.472749E+07	4.68045E+07		-14.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A5B003A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/05/07
Lab Sample ID:	BA00091-CCV7	Injection Time:	14:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0885	5.341989E+07	4.72871E+07		-11.5	20
Endosulfan I [2C]	A	0.100	0.0871	5.087841E+07	4.43019E+07		-12.9	20
Dieldrin [2C]	A	0.100	0.0881	5.608619E+07	4.93864E+07		-11.9	20
Endrin [2C]	A	0.100	0.0876	4.605028E+07	4.03508E+07		-12.4	20
4,4'-DDD [2C]	A	0.100	0.0893	4.157866E+07	3.71115E+07		-10.7	20
Endosulfan II [2C]	A	0.100	0.0877	4.58875E+07	4.02322E+07		-12.3	20
4,4'-DDT [2C]	A	0.100	0.0867	4.184652E+07	3.62712E+07		-13.3	20
Endrin aldehyde [2C]	A	0.100	0.0945	3.232817E+07	3.05367E+07		-5.5	20
Methoxychlor [2C]	A	0.100	0.0860	2.018515E+07	1.73581E+07		-14.0	20
Endosulfan sulfate [2C]	A	0.100	0.0897	3.836149E+07	3.4401E+07		-10.3	20
Endrin ketone [2C]	A	0.100	0.0888	4.596086E+07	4.08195E+07		-11.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A5A009-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/05/07
Lab Sample ID:	BA00091-CCVH	Injection Time:	17:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0954	7.280474E+07	6.9442E+07		-4.6	20
gamma-BHC	A	0.100	0.0944	6.465721E+07	6.1025E+07		-5.6	20
beta-BHC	A	0.100	0.0965	2.323065E+07	2.24189E+07		-3.5	20
delta-BHC	A	0.100	0.0979	5.66961E+07	5.55001E+07		-2.1	20
Heptachlor	A	0.100	0.0905	6.414063E+07	5.80501E+07		-9.5	20
Aldrin	A	0.100	0.0902	6.149162E+07	5.54841E+07		-9.8	20
Heptachlor epoxide	A	0.100	0.0891	5.405995E+07	4.81735E+07		-10.9	20
Chlordane-gamma	A	0.100	0.0884	5.527518E+07	4.8873E+07		-11.6	20
Chlordane-alpha	A	0.100	0.0872	5.296272E+07	4.61851E+07		-12.8	20
4,4′-DDE	A	0.100	0.0896	5.244698E+07	4.69927E+07		-10.4	20
Endosulfan I	A	0.100	0.0877	4.972951E+07	4.36334E+07		-12.3	20
Dieldrin	A	0.100	0.0883	5.436507E+07	4.79967E+07		-11.7	20
Endrin	A	0.100	0.0949	4.627937E+07	4.39059E+07		-5.1	20
4,4′-DDD	A	0.100	0.0954	4.00135E+07	3.81688E+07		-4.6	20
Endosulfan II	A	0.100	0.0899	4.442927E+07	3.99219E+07		-10.1	20
4,4′-DDT	A	0.100	0.0836	4.164772E+07	3.48174E+07		-16.4	20
Endrin aldehyde	A	0.100	0.0867	3.13612E+07	2.72013E+07		-13.3	20
Methoxychlor	A	0.100	0.0857	2.117353E+07	1.81506E+07		-14.3	20
Endosulfan sulfate	A	0.100	0.0935	3.673694E+07	3.43655E+07		-6.5	20
Endrin ketone	A	0.100	0.0908	4.568736E+07	4.14793E+07		-9.2	20
alpha-BHC [2C]	A	0.100	0.0945	7.552835E+07	7.14027E+07		-5.5	20
gamma-BHC [2C]	A	0.100	0.0929	6.719113E+07	6.23956E+07		-7.1	20
beta-BHC [2C]	A	0.100	0.0960	2.472905E+07	2.37335E+07		-4.0	20
delta-BHC [2C]	A	0.100	0.0952	5.850208E+07	5.57196E+07		-4.8	20
Heptachlor [2C]	A	0.100	0.0881	6.67268E+07	5.8773E+07		-11.9	20
Aldrin [2C]	A	0.100	0.0873	6.357242E+07	5.5472E+07		-12.7	20
Heptachlor epoxide [2C]	A	0.100	0.0883	5.626251E+07	4.9668E+07		-11.7	20
Chlordane-gamma [2C]	A	0.100	0.0878	5.722595E+07	5.02508E+07		-12.2	20
Chlordane-alpha [2C]	A	0.100	0.0857	5.472749E+07	4.68985E+07		-14.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A5B009-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/05/07
Lab Sample ID:	BA00091-CCVH	Injection Time:	17:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0890	5.341989E+07	4.7566E+07		-11.0	20
Endosulfan I [2C]	A	0.100	0.0871	5.087841E+07	4.43312E+07		-12.9	20
Dieldrin [2C]	A	0.100	0.0883	5.608619E+07	4.95442E+07		-11.7	20
Endrin [2C]	A	0.100	0.0943	4.605028E+07	4.34138E+07		-5.7	20
4,4'-DDD [2C]	A	0.100	0.0974	4.157866E+07	4.04856E+07		-2.6	20
Endosulfan II [2C]	A	0.100	0.0911	4.58875E+07	4.18223E+07		-8.9	20
4,4'-DDT [2C]	A	0.100	0.0825	4.184652E+07	3.45299E+07		-17.5	20
Endrin aldehyde [2C]	A	0.100	0.0839	3.232817E+07	2.71312E+07		-16.1	20
Methoxychlor [2C]	A	0.100	0.0859	2.018515E+07	1.73445E+07		-14.1	20
Endosulfan sulfate [2C]	A	0.100	0.0921	3.836149E+07	3.53456E+07		-7.9	20
Endrin ketone [2C]	A	0.100	0.0909	4.596086E+07	4.17581E+07		-9.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A5A011-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/05/07
Lab Sample ID:	BA00091-CCV8	Injection Time:	17:58

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.102	7.280474E+07	7.40597E+07		1.7	20
gamma-BHC	A	0.100	0.101	6.465721E+07	6.52847E+07		1.0	20
beta-BHC	A	0.100	0.104	2.323065E+07	2.40882E+07		3.7	20
delta-BHC	A	0.100	0.104	5.66961E+07	5.92121E+07		4.4	20
Heptachlor	A	0.100	0.0962	6.414063E+07	6.17232E+07		-3.8	20
Aldrin	A	0.100	0.0962	6.149162E+07	5.9164E+07		-3.8	20
Heptachlor epoxide	A	0.100	0.0944	5.405995E+07	5.10242E+07		-5.6	20
Chlordane-gamma	A	0.100	0.0944	5.527518E+07	5.21838E+07		-5.6	20
Chlordane-alpha	A	0.100	0.0923	5.296272E+07	4.89014E+07		-7.7	20
4,4′-DDE	A	0.100	0.0948	5.244698E+07	4.97073E+07		-5.2	20
Endosulfan I	A	0.100	0.0932	4.972951E+07	4.635E+07		-6.8	20
Dieldrin	A	0.100	0.0926	5.436507E+07	5.03408E+07		-7.4	20
Endrin	A	0.100	0.0995	4.627937E+07	4.60628E+07		-0.5	20
4,4′-DDD	A	0.100	0.101	4.00135E+07	4.03861E+07		0.9	20
Endosulfan II	A	0.100	0.0940	4.442927E+07	4.17428E+07		-6.0	20
4,4′-DDT	A	0.100	0.0890	4.164772E+07	3.70636E+07		-11.0	20
Endrin aldehyde	A	0.100	0.0897	3.13612E+07	2.81448E+07		-10.3	20
Methoxychlor	A	0.100	0.0877	2.117353E+07	1.85656E+07		-12.3	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.72772E+07		1.5	20
Endrin ketone	A	0.100	0.0944	4.568736E+07	4.3136E+07		-5.6	20
alpha-BHC [2C]	A	0.100	0.101	7.552835E+07	7.63366E+07		1.1	20
gamma-BHC [2C]	A	0.100	0.100	6.719113E+07	6.72699E+07		0.1	20
beta-BHC [2C]	A	0.100	0.105	2.472905E+07	2.58796E+07		4.7	20
delta-BHC [2C]	A	0.100	0.103	5.850208E+07	6.03354E+07		3.1	20
Heptachlor [2C]	A	0.100	0.0945	6.67268E+07	6.30273E+07		-5.5	20
Aldrin [2C]	A	0.100	0.0939	6.357242E+07	5.96832E+07		-6.1	20
Heptachlor epoxide [2C]	A	0.100	0.0943	5.626251E+07	5.30704E+07		-5.7	20
Chlordane-gamma [2C]	A	0.100	0.0945	5.722595E+07	5.4098E+07		-5.5	20
Chlordane-alpha [2C]	A	0.100	0.0920	5.472749E+07	5.03579E+07		-8.0	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A5B011-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/05/07
Lab Sample ID:	BA00091-CCV8	Injection Time:	17:58

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0951	5.341989E+07	5.0814E+07		-4.9	20
Endosulfan I [2C]	A	0.100	0.0935	5.087841E+07	4.75899E+07		-6.5	20
Dieldrin [2C]	A	0.100	0.0939	5.608619E+07	5.26617E+07		-6.1	20
Endrin [2C]	A	0.100	0.0990	4.605028E+07	4.55896E+07		-1.0	20
4,4'-DDD [2C]	A	0.100	0.0986	4.157866E+07	4.10087E+07		-1.4	20
Endosulfan II [2C]	A	0.100	0.0930	4.58875E+07	4.26962E+07		-7.0	20
4,4'-DDT [2C]	A	0.100	0.0868	4.184652E+07	3.63336E+07		-13.2	20
Endrin aldehyde [2C]	A	0.100	0.0895	3.232817E+07	2.89262E+07		-10.5	20
Methoxychlor [2C]	A	0.100	0.0879	2.018515E+07	1.77477E+07		-12.1	20
Endosulfan sulfate [2C]	A	0.100	0.0970	3.836149E+07	3.72019E+07		-3.0	20
Endrin ketone [2C]	A	0.100	0.0931	4.596086E+07	4.27848E+07		-6.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L07024
Laboratory ID: 6L07024-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0293	88	60 - 125
gamma-BHC	0.0333	0.0295	89	60 - 125
beta-BHC	0.0333	0.0308	92	60 - 125
delta-BHC	0.0333	0.0296	89	55 - 130
Heptachlor	0.0333	0.0279	84	50 - 140
Aldrin	0.0333	0.0282	85	45 - 140
Heptachlor epoxide	0.0333	0.0275	82	65 - 130
Chlordane-gamma	0.0333	0.0289	87	65 - 125
Chlordane-alpha	0.0333	0.0287	86	65 - 120
4,4′-DDE	0.0333	0.0285	86	70 - 125
Endosulfan I	0.0333	0.0277	83	15 - 135
Dieldrin	0.0333	0.0283	85	65 - 125
Endrin	0.0333	0.0288	86	60 - 135
4,4′-DDD	0.0333	0.0286	86	30 - 135
Endosulfan II	0.0333	0.0284	85	35 - 140
4,4′-DDT	0.0333	0.0282	85	45 - 140
Endrin aldehyde	0.0333	0.0259	78	35 - 145
Methoxychlor	0.0333	0.0271	81	55 - 145
Endosulfan sulfate	0.0333	0.0301	90	60 - 135
Endrin ketone	0.0333	0.0294	88	65 - 135
alpha-BHC [2C]	0.0333	0.0298	89	60 - 125
gamma-BHC [2C]	0.0333	0.0302	91	60 - 125
beta-BHC [2C]	0.0333	0.0315	95	60 - 125
delta-BHC [2C]	0.0333	0.0299	90	55 - 130
Heptachlor [2C]	0.0333	0.0287	86	50 - 140
Aldrin [2C]	0.0333	0.0291	87	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0288	86	65 - 130
Chlordane-gamma [2C]	0.0333	0.0300	90	65 - 125
Chlordane-alpha [2C]	0.0333	0.0295	88	65 - 120
4,4'-DDE [2C]	0.0333	0.0298	89	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L07024	Laboratory ID:	6L07024-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0286	86	15 - 135
Dieldrin [2C]	0.0333	0.0293	88	65 - 125
Endrin [2C]	0.0333	0.0299	90	60 - 135
4,4'-DDD [2C]	0.0333	0.0300	90	30 - 135
Endosulfan II [2C]	0.0333	0.0294	88	35 - 140
4,4'-DDT [2C]	0.0333	0.0296	89	45 - 140
Endrin aldehyde [2C]	0.0333	0.0270	81	35 - 145
Methoxychlor [2C]	0.0333	0.0279	84	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0311	93	60 - 135
Endrin ketone [2C]	0.0333	0.0301	90	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0293	88	60 - 125
gamma-BHC	0.0333	0.0295	89	60 - 125
beta-BHC	0.0333	0.0312	94	60 - 125
delta-BHC	0.0333	0.0280	84	55 - 130
Heptachlor	0.0333	0.0292	88	50 - 140
Aldrin	0.0333	0.0288	86	45 - 140
Heptachlor epoxide	0.0333	0.0294	88	65 - 130
Chlordane-gamma	0.0333	0.0290	87	65 - 125
Chlordane-alpha	0.0333	0.0290	87	65 - 120
4,4'-DDE	0.0333	0.0301	90	70 - 125
Endosulfan I	0.0333	0.0291	87	15 - 135
Dieldrin	0.0333	0.0299	90	65 - 125
Endrin	0.0333	0.0303	91	60 - 135
4,4'-DDD	0.0333	0.0309	93	30 - 135
Endosulfan II	0.0333	0.0298	89	35 - 140
4,4'-DDT	0.0333	0.0292	88	45 - 140
Endrin aldehyde	0.0333	0.0295	89	35 - 145
Methoxychlor	0.0333	0.0290	87	55 - 145
Endosulfan sulfate	0.0333	0.0299	90	60 - 135
Endrin ketone	0.0333	0.0273	82	65 - 135
alpha-BHC [2C]	0.0333	0.0284	85	60 - 125
gamma-BHC [2C]	0.0333	0.0286	86	60 - 125
beta-BHC [2C]	0.0333	0.0296	89	60 - 125
delta-BHC [2C]	0.0333	0.0266	80	55 - 130
Heptachlor [2C]	0.0333	0.0277	83	50 - 140
Aldrin [2C]	0.0333	0.0285	85	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0282	85	65 - 130
Chlordane-gamma [2C]	0.0333	0.0285	85	65 - 125
Chlordane-alpha [2C]	0.0333	0.0283	85	65 - 120
4,4'-DDE [2C]	0.0333	0.0297	89	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L14027	Laboratory ID:	6L14027-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0289	87	15 - 135
Dieldrin [2C]	0.0333	0.0293	88	65 - 125
Endrin [2C]	0.0333	0.0299	90	60 - 135
4,4'-DDD [2C]	0.0333	0.0303	91	30 - 135
Endosulfan II [2C]	0.0333	0.0296	89	35 - 140
4,4'-DDT [2C]	0.0333	0.0282	85	45 - 140
Endrin aldehyde [2C]	0.0333	0.0291	87	35 - 145
Methoxychlor [2C]	0.0333	0.0293	88	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0297	89	60 - 135
Endrin ketone [2C]	0.0333	0.0275	82	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-006

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.00013	0.0017	mg/kg
gamma-BHC	0.00016	0.0017	mg/kg
beta-BHC	0.00033	0.0017	mg/kg
delta-BHC	0.00016	0.0017	mg/kg
Heptachlor	0.00023	0.0017	mg/kg
Aldrin	0.00020	0.0017	mg/kg
Heptachlor epoxide	0.00056	0.0017	mg/kg
Chlordane-gamma	0.00023	0.0017	mg/kg
Chlordane-alpha	0.00026	0.0017	mg/kg
4,4´-DDE	0.00033	0.0017	mg/kg
Endosulfan I	0.00026	0.0017	mg/kg
Dieldrin	0.00023	0.0017	mg/kg
Endrin	0.00036	0.0017	mg/kg
4,4´-DDD	0.00030	0.0017	mg/kg
Endosulfan II	0.00023	0.0017	mg/kg
4,4´-DDT	0.00013	0.0017	mg/kg
Endrin aldehyde	0.00016	0.0017	mg/kg
Methoxychlor	0.00033	0.0017	mg/kg
Endosulfan sulfate	0.00026	0.0017	mg/kg
Endrin ketone	0.00030	0.0017	mg/kg
Toxaphene	0.0016	0.033	mg/kg
alpha-BHC [2C]	0.00013	0.0017	mg/kg
gamma-BHC [2C]	0.00016	0.0017	mg/kg
beta-BHC [2C]	0.00033	0.0017	mg/kg
delta-BHC [2C]	0.00016	0.0017	mg/kg
Heptachlor [2C]	0.00023	0.0017	mg/kg
Aldrin [2C]	0.00020	0.0017	mg/kg
Heptachlor epoxide [2C]	0.00056	0.0017	mg/kg
Chlordane-gamma [2C]	0.00023	0.0017	mg/kg
Chlordane-alpha [2C]	0.00026	0.0017	mg/kg
4,4'-DDE [2C]	0.00033	0.0017	mg/kg
Endosulfan I [2C]	0.00026	0.0017	mg/kg
Dieldrin [2C]	0.00023	0.0017	mg/kg
Endrin [2C]	0.00036	0.0017	mg/kg
4,4'-DDD [2C]	0.00030	0.0017	mg/kg
Endosulfan II [2C]	0.00023	0.0017	mg/kg
4,4'-DDT [2C]	0.00013	0.0017	mg/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-006

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.00016	0.0017	mg/kg
Methoxychlor [2C]	0.00033	0.0017	mg/kg
Endosulfan sulfate [2C]	0.00026	0.0017	mg/kg
Endrin ketone [2C]	0.00030	0.0017	mg/kg
Toxaphene [2C]	0.0016	0.033	mg/kg

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07024 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L07024-BLK1	9LHB037-0	12/07/06 16:27	
Blank	6L07024-BLK1	9LHA037-0	12/07/06 16:27	
LCS	6L07024-BS1	9LHB038-0	12/07/06 16:27	
LCS	6L07024-BS1	9LHA038-0	12/07/06 16:27	
JAX47-SB089-02-113006	6L07024-MS1	9LHB039-0	12/07/06 16:27	
JAX47-SB089-02-113006	6L07024-MS1	9LHA039-0	12/07/06 16:27	
JAX47-SB089-02-113006	6L07024-MSD1	9LHA040-0	12/07/06 16:27	
JAX47-SB089-02-113006	6L07024-MSD1	9LHB040-0	12/07/06 16:27	
JAX47-SB094-01-112806	B610307-09	9LHA041-0	12/07/06 16:27	
JAX47-SB094-01-112806	B610307-09	9LHB041-0	12/07/06 16:27	
JAX47-SB094-01-112806	B610307-09RE1	9LRB014-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB094-01-112806	B610307-09RE1	9LRA014-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB094-01-112806	B610307-09RE2	9LRA009-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB094-01-112806	B610307-09RE2	9LRB009-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB094-01-112806	B610307-09RE3	9LRB004-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB094-01-112806	B610307-09RE3	9LRA004-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB094-06-112806	B610307-10	9LHB042-0	12/07/06 16:27	
JAX47-SB094-06-112806	B610307-10	9LHA042-0	12/07/06 16:27	
JAX47-SB094-06-112806	B610307-10RE1	9LRB011-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB094-06-112806	B610307-10RE1	9LRA011-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB095-01-112806	B610307-11	9LHB043-0	12/07/06 16:27	
JAX47-SB095-01-112806	B610307-11	9LHA043-0	12/07/06 16:27	
JAX47-SB095-01-112806	B610307-11RE1	9LRB015-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB095-01-112806	B610307-11RE1	9LRA015-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB095-01-112806	B610307-11RE2	9LVA005-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB095-01-112806	B610307-11RE2	9LVB005-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB095-06-112806	B610307-12	9LHA044-0	12/07/06 16:27	
JAX47-SB095-06-112806	B610307-12	9LHB044-0	12/07/06 16:27	
JAX47-SB097-01-112806	B610307-13	9LHA045-0	12/07/06 16:27	
JAX47-SB097-01-112806	B610307-13	9LHB045-0	12/07/06 16:27	
JAX47-SB097-01-112806	B610307-13RE1	9LRB017-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB097-01-112806	B610307-13RE1	9LRA017-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB097-06-112806	B610307-14	9LHA046-0	12/07/06 16:27	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07024 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB097-06-112806	B610307-14	9LHB046-0	12/07/06 16:27	
JAX47-SB084-01-112906	B610307-15	9A5A010-0	12/07/06 16:27	
JAX47-SB084-01-112906	B610307-15	9A5B010-0	12/07/06 16:27	
JAX47-SB084-01-112906	B610307-15RE1	9LRB013-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB084-01-112906	B610307-15RE1	9LRA013-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB084-01-112906	B610307-15RE2	9LRB008-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB084-01-112906	B610307-15RE2	9LRA008-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB084-05-112906	B610307-16	9A5B004A-0	12/07/06 16:27	
JAX47-SB084-05-112906	B610307-16	9A5A004A-0	12/07/06 16:27	
JAX47-SB085-01-112906	B610307-17	9A5B008-0	12/07/06 16:27	
JAX47-SB085-01-112906	B610307-17	9A5A008-0	12/07/06 16:27	
JAX47-SB085-05-112906	B610307-18	9A5B005A-0	12/07/06 16:27	
JAX47-SB085-05-112906	B610307-18	9A5A005A-0	12/07/06 16:27	
JAX47-SB086-01-112906	B610307-19	9A5B006A-0	12/07/06 16:27	
JAX47-SB086-01-112906	B610307-19	9A5A006A-0	12/07/06 16:27	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L07024-BLK1	File ID:	9LHA037-0
Prepared:	12/07/06 16:27	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/14/06 04:13	Instrument:	JSVGCECD2		
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.000233	J
NA	Chlordane-alpha	0.000267	J
72-55-9	4,4´-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4´-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4´-DDT	0.0017	U
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.0017	U
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L07024-BLK1	File ID:	9LHB037-0
Prepared:	12/07/06 16:27	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/14/06 04:13	Instrument:	JSVGCECD2		
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.0017	U
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.0017	U
7421-93-4	Endrin aldehyde [2C]	0.0017	U
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0253	76	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.0260	78	70 - 125	
DBC	0.0333	0.0254	76	55 - 130	
DBC [2C]	0.0333	0.0265	80	55 - 130	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L14027 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L14027-BLK1	9LOB006-0	12/14/06 18:51	
Blank	6L14027-BLK1	9LOA006-0	12/14/06 18:51	
LCS	6L14027-BS1	9LOB005-0	12/14/06 18:51	
LCS	6L14027-BS1	9LOA005-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MS1	9LOB015-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MS1	9LOA015-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MSD1	9LOB016-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MSD1	9LOA016-0	12/14/06 18:51	
JAX47-SB086-06-112906	B610307-20RE1	9LOB011-0	12/14/06 18:51	From 6L07024 by MJF on 14-Dec-06
JAX47-SB086-06-112906	B610307-20RE1	9LOA011-0	12/14/06 18:51	From 6L07024 by MJF on 14-Dec-06
JAX47-SB086-06-112906	B610307-20RE2	9LQB013-0	12/14/06 18:51	Added 12/22/06 by JBH
JAX47-SB086-06-112906	B610307-20RE2	9LQA013-0	12/14/06 18:51	Added 12/22/06 by JBH

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB094-01-112806	11/28/06 14:00	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/14/06 05:57	7.00	40.00	
JAX47-SB094-01-112806	11/28/06 14:00	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/23/06 18:01	16.00	40.00	
JAX47-SB094-01-112806	11/28/06 14:00	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/23/06 15:51	16.00	40.00	
JAX47-SB094-01-112806	11/28/06 14:00	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/23/06 13:42	16.00	40.00	
JAX47-SB094-06-112806	11/28/06 14:25	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/14/06 06:23	7.00	40.00	
JAX47-SB094-06-112806	11/28/06 14:25	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/23/06 16:43	16.00	40.00	
JAX47-SB095-01-112806	11/28/06 14:41	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/14/06 06:49	7.00	40.00	
JAX47-SB095-01-112806	11/28/06 14:41	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/23/06 18:26	16.00	40.00	
JAX47-SB095-01-112806	11/28/06 14:41	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/27/06 11:38	20.00	40.00	
JAX47-SB095-06-112806	11/28/06 14:46	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/14/06 07:15	7.00	40.00	
JAX47-SB097-01-112806	11/28/06 15:10	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/14/06 07:41	7.00	40.00	
JAX47-SB097-01-112806	11/28/06 15:10	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/23/06 19:18	16.00	40.00	
JAX47-SB097-06-112806	11/28/06 15:15	11/30/06 11:35	12/07/06 16:27	9.00	14.00	12/14/06 08:07	7.00	40.00	
JAX47-SB084-01-112906	11/29/06 13:32	11/30/06 11:35	12/07/06 16:27	8.00	14.00	01/05/07 17:32	29.00	40.00	
JAX47-SB084-01-112906	11/29/06 13:32	11/30/06 11:35	12/07/06 16:27	8.00	14.00	12/23/06 17:35	16.00	40.00	
JAX47-SB084-01-112906	11/29/06 13:32	11/30/06 11:35	12/07/06 16:27	8.00	14.00	12/23/06 15:26	16.00	40.00	
JAX47-SB084-05-112906	11/29/06 13:44	11/30/06 11:35	12/07/06 16:27	8.00	14.00	01/05/07 14:57	29.00	40.00	
JAX47-SB085-01-112906	11/29/06 13:55	11/30/06 11:35	12/07/06 16:27	8.00	14.00	01/05/07 16:41	29.00	40.00	
JAX47-SB085-05-112906	11/29/06 14:02	11/30/06 11:35	12/07/06 16:27	8.00	14.00	01/05/07 15:23	29.00	40.00	
JAX47-SB086-01-112906	11/29/06 09:43	11/30/06 11:35	12/07/06 16:27	8.00	14.00	01/05/07 15:49	29.00	40.00	
JAX47-SB086-06-112906	11/29/06 09:50	11/30/06 11:35	12/14/06 18:51	15.00	14.00	12/20/06 15:31	6.00	40.00	*
JAX47-SB086-06-112906	11/29/06 09:50	11/30/06 11:35	12/14/06 18:51	15.00	14.00	12/22/06 16:50	8.00	40.00	*

reanalysis

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	6L14027-BLK1	File ID:	9LOA006-0
Prepared:	12/14/06 18:51	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/20/06 13:22	Instrument:	JSVGCECD2		
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4'-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4'-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4'-DDT	0.000300	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.000333	J
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L14027-BLK1	File ID:	9LOB006-0
Prepared:	12/14/06 18:51	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/20/06 13:22	Instrument:	JSVGCECD2		
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.000467	J
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.000267	J
7421-93-4	Endrin aldehyde [2C]	0.000267	J
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0279	84	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.0270	81	70 - 125	
DBC	0.0333	0.0292	88	55 - 130	
DBC [2C]	0.0333	0.0288	86	55 - 130	

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09	File ID:	9LHA041-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 05:57
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	* 1	8.021	8.023286	0.00229		0.00031		
gamma-BHC	* 1	8.618	8.628	0.01		0.0031	271	R for J
beta-BHC	* 1	8.814	8.816429	0.00243		0.0014	95.3	J
Endrin ketone	* 1	14.235	14.25229	0.0173		0.0031	1190	R for J
gamma-BHC	2	8.496	8.497428	0.00143		0.00082	271	R for J
beta-BHC	2	8.691	8.687429	0.00357		0.0027	94.9	J
Endrin ketone	2	14.128	14.08214	0.0459		0.040	1190	R for J
2,4,5,6-TCMX	* 1	6.845	6.848286	0.00329		0.0240	2.01	
2,4,5,6-TCMX	2	6.562	6.564286	0.00229		0.0235	J	
DBC	* 1	14.099	14.10214	0.00314		0.0329	75.1	J
DBC	2	13.907	13.90914	0.00214		0.0576	75	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09RE1	File ID:	9LRA014-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 18:01
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Heptachlor	* 1	9.299	9.463429	0.164		0.15	22.6	
Heptachlor epoxide	* 1	10.792	10.95643	0.164		0.92	82	J
4,4′-DDE	* 1	11.323	11.48286	0.16		0.54	✓	
Endosulfan I	* 1	11.436	11.55586	0.12		0.40	85.1	J
4,4′-DDD	* 1	12.215	12.37786	0.163		0.38	○	
Endrin aldehyde	* 1	13.075	13.21929	0.144		0.080	2070	R for %
Methoxychlor	* 1	13.331	13.48543	0.154		0.056	190	R for %
Endosulfan sulfate	* 1	13.661	13.853	0.192		0.11	136	R for %
Heptachlor	2	9.09	9.237571	0.148		0.19	22.9	
Heptachlor epoxide	2	10.533	10.67843	0.145		0.50	82.2	J [illegible]
4,4'-DDE	2	11.336	11.47543	0.139		0.56	✓	
Endosulfan I	2	11.141	11.26443	0.123		0.22	85.5	[illegible] J
4,4'-DDD	2	12.185	12.32514	0.14		0.84	○	
Endosulfan II	2	12.262	12.43571	0.174		0.59	158	R for %
Endrin aldehyde	2	12.798	12.927	0.129		1.7	2070	R for %
Methoxychlor	2	13.622	13.77371	0.152		0.019	189	R for %
Endosulfan sulfate	2	13.187	13.32643	0.139		0.047	136	R for %

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09RE2	File ID:	9LRA009-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 15:51
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Dieldrin	* 1	11.784	11.91886	0.135		1.1	1180	R for VI
Endrin	* 1	12.093	12.26457	0.172		1.4	10.1	
4,4'-DDT	* 1	12.623	12.78071	0.158		2.0	J	
Dieldrin	2	11.525	11.67429	0.149		0.089	1180	R for VI
Endrin	2	11.993	12.121	0.128		1.5	9.61	
4,4'-DDT	2	12.63	12.77157	0.142		2.2	J	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-09RE3	File ID:	9LRA004-0
Sampled:	11/28/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 13:42
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Chlordane-gamma	* 1	10.985	11.14771	0.163		37	1.9	
Chlordane-alpha	* 1	11.186	11.34971	0.164		50	36.6	S
Chlordane-gamma	2	10.825	10.97329	0.148		36	1.94	
Chlordane-alpha	2	11.047	11.19143	0.144		36	36.5	S

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-10	File ID:	9LHA042-0
Sampled:	11/28/06 14:25	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 06:23
Solids:	83.58	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Heptachlor	* 1	9.462	9.463429	0.00143		0.00060	0.0327	
Aldrin	* 1	9.971	9.967572	0.00343		0.00024	100	R fr u
Heptachlor epoxide	* 1	10.959	10.95643	0.00257		0.012	271	R fr u
Chlordane-gamma	* 1	11.147	11.14771	0.00071		0.052	19.3	
Chlordane-alpha	* 1	11.348	11.34971	0.00171		0.052	3.95	
4,4'-DDE	* 1	11.482	11.48286	0.00086		0.055	(J)	
Endrin	* 1	12.253	12.26457	0.0116		0.00064	50	J
alpha-BHC	2	7.892	7.838	0.054		0.00040	(U)	
Heptachlor	2	9.237	9.237571	0.000571		0.00060	0.0327	
Aldrin	2	9.765	9.759429	0.00557		0.00048	100	R fr u
Heptachlor epoxide	2	10.677	10.67843	0.00143		0.0033	270	R fr u
Chlordane-gamma	2	10.972	10.97329	0.00129		0.062	19.3	
Chlordane-alpha	2	11.192	11.19143	0.00057		0.054	3.8	
4,4'-DDE	2	11.475	11.47543	0.00043		0.055	(J)	
Endrin	2	12.14	12.121	0.019		0.00096	50	J
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.0228	3.46	
2,4,5,6-TCMX	2	6.564	6.564286	0.000286		0.0236	3.72	
DBC	* 1	14.102	14.10214	0.00014		0.0327	19.9	
DBC	2	13.909	13.90914	0.00014		0.0273	19.7	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-10RE1	File ID:	9LRA011-0
Sampled:	11/28/06 14:25	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 16:43
Solids:	83.58	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4′-DDD	* 1	12.221	12.37786	0.157		1.9	✓
4,4′-DDT	* 1	12.624	12.78071	0.157		4.9	✓
4,4'-DDD	2	12.185	12.32514	0.14		1.9	✓
4,4'-DDT	2	12.631	12.77157	0.141		4.9	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-11	File ID:	9LHA043-0
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 06:49
Solids:	94.74	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	* 1	8.021	8.023286	0.00229		0.00032	0.104	
gamma-BHC	* 1	8.626	8.628	0.002		0.0028	0.173	
beta-BHC	* 1	8.815	8.816429	0.00143		0.0029	0.165	
delta-BHC	* 1	9.122	9.124286	0.00229		0.00074	0.0135	
Heptachlor	* 1	9.463	9.463429	0.000429		0.0011	0.0694	
Endosulfan II	* 1	12.577	12.60057	0.0236		0.044	125	ok for J
Endrin aldehyde	* 1	13.21	13.21929	0.00929		0.014	706	R for H
Endosulfan sulfate	1	13.819	13.853	0.034		0.044	118	J
Endrin ketone	* 1	14.211	14.25229	0.0413		0.0040	1390	
alpha-BHC	2	7.837	7.838	0.001		0.00032	0.104	
gamma-BHC	2	8.497	8.497428	0.000428		0.0028	0.173	
beta-BHC	2	8.686	8.687429	0.00143		0.0029	0.165	
delta-BHC	2	9.179	9.180286	0.00129		0.00074	0.0135	
Heptachlor	2	9.242	9.237571	0.00443		0.0011	0.0694	
Endosulfan II	2	12.463	12.43571	0.0273		0.020	125	ok J
Endrin aldehyde	2	12.943	12.927	0.016		0.12	707	R for H
Endosulfan sulfate	* 2	13.327	13.32643	0.00057		0.020	118	J
Endrin ketone	2	14.126	14.08214	0.0439		0.060	1390	R for H
2,4,5,6-TCMX	* 1	6.846	6.848286	0.00229		0.0213	0.888	
2,4,5,6-TCMX	2	6.564	6.564286	0.000286		0.0211	0.725	
DBC	* 1	14.104	14.10214	0.00186		0.0753	115	J
DBC	2	13.911	13.90914	0.00186		0.0351	114	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-11RE1	File ID:	9LRA015-0
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 18:26
Solids:	94.74	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Heptachlor epoxide	* 1	10.794	10.95643	0.162		0.14	43.6	J
4,4'-DDE	* 1	11.326	11.48286	0.157		0.86	(√)	
Dieldrin	* 1	11.756	11.91886	0.163		0.80	6.67	
Endrin	* 1	12.091	12.26457	0.174		0.15	38.7	J
4,4'-DDD	* 1	12.219	12.37786	0.159		0.11	(0)	
Methoxychlor	* 1	13.332	13.48543	0.153		0.14	(669)	R for %
Heptachlor epoxide	2	10.532	10.67843	0.146		0.099	43.1	J
4,4'-DDE	2	11.336	11.47543	0.139		0.90	(√)	
Dieldrin	2	11.526	11.67429	0.148		0.85	6.66	
Endrin	2	11.994	12.121	0.127		0.20	38.8	
4,4'-DDD	2	12.173	12.32514	0.152		0.49	(0)	
Methoxychlor	2	13.62	13.77371	0.154		0.018	(671)	R for %

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-11RE2	File ID:	9LVA005-0
Sampled:	11/28/06 14:41	Prepared:	12/07/06 16:27	Analyzed:	12/27/06 11:38
Solids:	94.74	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4′-DDD	* 1	12.174	12.37786	0.204		1.1	
4,4′-DDT	* 1	12.576	12.78071	0.205		8.0	
Chlordane-gamma	2	10.781	10.97329	0.192		1.1	12.8
Chlordane-alpha	2	11.004	11.19143	0.187		1.1	131
4,4'-DDT	2	12.589	12.77157	0.183		8.5	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-12	File ID:	9LHA044-0
Sampled:	11/28/06 14:46	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 07:15
Solids:	83.80	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
4,4´-DDT	* 1	12.781	12.78071	0.00029		0.00044		J
Methoxychlor	* 1	13.485	13.48543	0.00043		0.00091	1680	R for L
Endrin ketone	* 1	14.297	14.25229	0.0447		0.00052	2240	R for L
4,4'-DDT	2	12.773	12.77157	0.00143		0.00091		J
Methoxychlor	2	13.75	13.77371	0.0237		0.016	1680	R for L
Endosulfan sulfate	2	13.302	13.32643	0.0244		0.00060		
Endrin ketone	2	14.126	14.08214	0.0439		0.012	2230	R for L
2,4,5,6-TCMX	* 1	6.846	6.848286	0.00229		0.0278	16.9	
2,4,5,6-TCMX	2	6.564	6.564286	0.000286		0.0325		
DBC	* 1	14.101	14.10214	0.00114		0.0310	4.24	
DBC	2	13.909	13.90914	0.00014		0.0323	4.19	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-13	File ID:	9LHA045-0
Sampled:	11/28/06 15:10	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 07:41
Solids:	95.61	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
beta-BHC	* 1	8.814	8.816429	0.00243		0.00049	39.9	J
Heptachlor epoxide	* 1	10.956	10.95643	0.00043		0.0017	ND	
Chlordane-gamma	* 1	11.146	11.14771	0.00171		0.0062	43.3	J
Dieldrin	* 1	11.916	11.91886	0.00286		0.0017	60.1	J
4,4'-DDD	1	12.374	12.37786	0.00386		0.0059	6.59	
Endrin aldehyde	* 1	13.24	13.21929	0.0207		0.00098	40.1	J
Methoxychlor	* 1	13.495	13.48543	0.00957		0.0016	9	
Endosulfan sulfate	1	13.846	13.853	0.007		0.0026	744	NAM
beta-BHC	2	8.686	8.687429	0.00143		0.00035	40	J
Chlordane-gamma	2	10.969	10.97329	0.00429		0.0089	43.2	J
Endosulfan I	2	11.28	11.26443	0.0156		0.00049	ND	
Dieldrin	2	11.672	11.67429	0.00229		0.0028	60.3	J
4,4'-DDD	* 2	12.321	12.32514	0.00414		0.0074	8.51	
Endrin aldehyde	2	12.944	12.927	0.017		0.00070	40	J
Methoxychlor	2	13.756	13.77371	0.0177		0.0017	8.81	
Endosulfan sulfate	* 2	13.323	13.32643	0.00343		0.00031	745	NAM
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.0258	5.68	
2,4,5,6-TCMX	2	6.565	6.564286	0.000714		0.0273	5.81	
DBC	* 1	14.099	14.10214	0.00314		0.0369	9.23	
DBC	2	13.907	13.90914	0.00214		0.0338	9.12	

* Column used for quantitation

$$\frac{(.0016 - 0.0017)}{.0017} = 5.88$$

$$\frac{0.0016 - 0.0017}{0.0016} = 6.25$$

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-13RE1	File ID:	9LRA017-0
Sampled:	11/28/06 15:10	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 19:18
Solids:	95.61	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:		GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4′-DDE	* 1	11.326	11.48286	0.157		0.13	✓
4,4′-DDT	* 1	12.622	12.78071	0.159		0.14	✓
4,4'-DDE	2	11.336	11.47543	0.139		0.14	✓
4,4'-DDT	2	12.629	12.77157	0.143		0.15	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-14	File ID:	9LHA046-0
Sampled:	11/28/06 15:15	Prepared:	12/07/06 16:27	Analyzed:	12/14/06 08:07
Solids:	80.61	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.48	11.48286	0.00286		0.00054	✓
4,4'-DDT	* 1	12.78	12.78071	0.00071		0.00045	✓
4,4'-DDE	2	11.474	11.47543	0.00143		0.00054	✓
4,4'-DDT	2	12.771	12.77157	0.00057		0.00062	✓
2,4,5,6-TCMX	* 1	6.845	6.848286	0.00329		0.0321	4.71
2,4,5,6-TCMX	2	6.563	6.564286	0.00129		0.0336	4.74
DBC	* 1	14.101	14.10214	0.00114		0.0277	3.43
DBC	2	13.908	13.90914	0.00114		0.0287	3.46

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-15	File ID:	9A5A010-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 17:32
Solids:	96.22	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:		GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
gamma-BHC	* 1	8.363	8.628	0.265		0.0012	25	
beta-BHC	* 1	8.56	8.816429	0.256		0.0010	16.4	
Heptachlor	* 1	9.2	9.463429	0.263		0.052	3.88	
4,4'-DDD	* 1	12.12	12.37786	0.258		0.0064		R for %
Endosulfan II	* 1	12.334	12.60057	0.267		0.057	254	R for %
Methoxychlor	* 1	13.226	13.48543	0.259		0.012	189	R for %
Endosulfan sulfate	* 1	13.6	13.853	0.253		0.0023	38.7	J
Endrin ketone	* 1	13.974	14.25229	0.278		0.00066	731	R for %
gamma-BHC	2	8.259	8.497428	0.238		0.00097	24.7	
beta-BHC	2	8.456	8.687429	0.231		0.0012	16.6	
Heptachlor	2	9	9.237571	0.238		0.054	3.86	
4,4'-DDD	2	12.106	12.32514	0.219		0.074		R for %
Endosulfan II	2	12.148	12.43571	0.288		0.20	255	R for %
Methoxychlor	2	13.534	13.77371	0.24		0.035	188	R for %
Endosulfan sulfate	2	13.098	13.32643	0.228		0.0032	38.9	J
Endrin ketone	2	13.855	14.08214	0.227		0.0055	732	R for %
2,4,5,6-TCMX	* 1	6.583	6.848286	0.265		0.0275	2.51	
2,4,5,6-TCMX	2	6.322	6.564286	0.242		0.0268	2.69	
DBC	* 1	13.854	14.10214	0.248		0.0290	19.9	
DBC	2	13.687	13.90914	0.222		0.0348		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-006	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610307-15RE1	File ID:	9LRA013-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 17:35
Solids:	96.22	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:		GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Heptachlor epoxide	* 1	10.793	10.95643	0.163		0.85	20.9	
4,4'-DDE	* 1	11.326	11.48286	0.157		0.24	✓	
Dieldrin	* 1	11.798	11.91886	0.121		0.13	105	R fr 4
Endrin	* 1	12.091	12.26457	0.174		0.087	38.6	J
Endosulfan II	* 1	12.42	12.60057	0.181		0.058	356	R fr 4
4,4'-DDT	* 1	12.624	12.78071	0.157		0.15	✓	
Heptachlor epoxide	2	10.533	10.67843	0.145		0.70	20.8	
4,4'-DDE	2	11.337	11.47543	0.138		0.20	✓	
Dieldrin	2	11.524	11.67429	0.15		0.26	106	R fr 4
Endrin	2	11.993	12.121	0.128		0.12	38.4	
4,4'-DDT	2	12.631	12.77157	0.141		0.17	✓	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-15RE2	File ID:	9LRA008-0
Sampled:	11/29/06 13:32	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 15:26
Solids:	96.22	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Chlordane-gamma	* 1	10.984	11.14771	0.164		4.9	0.0929	
Chlordane-alpha	* 1	11.184	11.34971	0.166		7.9	66.9	J
Chlordane-gamma	2	10.825	10.97329	0.148		4.9	0.0929	
Chlordane-alpha	2	11.047	11.19143	0.144		4.7	67.1	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-16	File ID:	9A5A004A-0
Sampled:	11/29/06 13:44	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 14:57
Solids:	90.88	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Heptachlor	* 1	9.198	9.463429	0.265		0.00040	63.6	J
Heptachlor epoxide	* 1	10.688	10.95643	0.268		0.0052	24.3	
Chlordane-gamma	* 1	10.885	11.14771	0.263		0.019	0.282	
Chlordane-alpha	1	11.085	11.34971	0.265		0.028	68.4	J
4,4'-DDE	* 1	11.227	11.48286	0.256		0.00088		
4,4'-DDT	* 1	12.523	12.78071	0.258		0.0012		
Endrin aldehyde	* 1	12.968	13.21929	0.251		0.00018	702	R for H
alpha-BHC	2	7.653	7.838	0.185		0.00015		
Heptachlor	2	8.998	9.237571	0.24		0.00066	63.8	J
Heptachlor epoxide	2	10.44	10.67843	0.238		0.0042	24.2	
Chlordane-gamma	2	10.733	10.97329	0.24		0.019	0.621	
Chlordane-alpha	* 2	10.957	11.19143	0.234		0.016	68.3	J
4,4'-DDE	2	11.245	11.47543	0.23		0.0011		
4,4'-DDD	2	12.097	12.32514	0.228		0.00044		
Endosulfan II	2	12.15	12.43571	0.286		0.00070		
4,4'-DDT	2	12.542	12.77157	0.23		0.0011		
Endrin aldehyde	2	12.705	12.927	0.222		0.0015	702	R for H
2,4,5,6-TCMX	* 1	6.582	6.848286	0.266		0.0303	4.34	
2,4,5,6-TCMX	2	6.322	6.564286	0.242		0.0290	4.57	
DBC	* 1	13.853	14.10214	0.249		0.0301	1.61	
DBC	2	13.686	13.90914	0.223		0.0296	1.57	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-17	File ID:	9A5A008-0
Sampled:	11/29/06 13:55	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 16:41
Solids:	84.44	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Heptachlor epoxide		1	10.703	10.95643	0.253		0.00083	ND	
Chlordane-gamma	*	1	10.886	11.14771	0.262		0.0034	1.07	
Chlordane-alpha		1	11.065	11.34971	0.285		0.016	442	R for H
4,4'-DDE	*	1	11.229	11.48286	0.254		0.055	J	
Dieldrin	*	1	11.653	11.91886	0.266		0.0019	14.8	
Endrin		1	11.981	12.26457	0.284		0.0011	ND	
4,4'-DDD		1	12.123	12.37786	0.255		0.0050	J	
4,4'-DDT	*	1	12.523	12.78071	0.258		0.073	J	
Endrin aldehyde	*	1	12.958	13.21929	0.261		0.0011	1430	R for H
Methoxychlor	*	1	13.222	13.48543	0.263		0.0028	1.32	
Endosulfan sulfate	*	1	13.573	13.853	0.28		0.0017	319	R for H
Chlordane-gamma		2	10.732	10.97329	0.241		0.0033	1.32	
Chlordane-alpha	*	2	10.957	11.19143	0.234		0.0030	443	
4,4'-DDE		2	11.247	11.47543	0.228		0.054	J	
Dieldrin		2	11.432	11.67429	0.242		0.0021	14.6	
4,4'-DDD	*	2	12.095	12.32514	0.23		0.0028	J	
4,4'-DDT		2	12.541	12.77157	0.231		0.072	J	
Endrin aldehyde		2	12.666	12.927	0.261		0.016	1430	R for H
Methoxychlor		2	13.56	13.77371	0.214		0.0029	1.47	
Endosulfan sulfate		2	13.09	13.32643	0.236		0.0071	318	
2,4,5,6-TCMX	*	1	6.583	6.848286	0.265		0.0294	3.19	
2,4,5,6-TCMX		2	6.322	6.564286	0.242		0.0285	3.29	
DBC	*	1	13.853	14.10214	0.249		0.0379	24.7	
DBC		2	13.687	13.90914	0.222		0.0304	24.8	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-18	File ID:	9A5A005A-0
Sampled:	11/29/06 14:02	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 15:23
Solids:	88.38	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDT	* 1	12.523	12.78071	0.258		0.00038	
4,4'-DDT	2	12.542	12.77157	0.23		0.00038	
2,4,5,6-TCMX	* 1	6.582	6.848286	0.266		0.0259	3.38
2,4,5,6-TCMX	2	6.321	6.564286	0.243		0.0251	3.27
DBC	* 1	13.852	14.10214	0.25		0.0261	3.31
DBC	2	13.686	13.90914	0.223		0.0253	3.29

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-19	File ID:	9A5A006A-0
Sampled:	11/29/06 09:43	Prepared:	12/07/06 16:27	Analyzed:	01/05/07 15:49
Solids:	99.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
beta-BHC		1	8.56	8.816429	0.256		0.0026	347	R for 4
delta-BHC	*	1	8.865	9.124286	0.259		0.00034	180	R for 4
Chlordane-gamma	*	1	10.885	11.14771	0.263		0.00071	23.8	
4,4´-DDE	*	1	11.228	11.48286	0.255		0.044	(J)	
Dieldrin	*	1	11.653	11.91886	0.266		0.00044	7.67	
Endrin		1	11.976	12.26457	0.289		0.00061	49.9	J
4,4´-DDD	*	1	12.122	12.37786	0.256		0.0024	(J)	J
4,4´-DDT	*	1	12.522	12.78071	0.259		0.027	(J)	
Endrin aldehyde	*	1	12.951	13.21929	0.268		0.00047	99.6	J
Methoxychlor		1	13.223	13.48543	0.262		0.0016	(NP)	
Endosulfan sulfate		1	13.594	13.853	0.259		0.0014	(NP)	
alpha-BHC		2	7.59	7.838	0.248		0.00037	(ND)	
beta-BHC	*	2	8.453	8.687429	0.234		0.00057	347	R for 4
delta-BHC		2	8.934	9.180286	0.246		0.00094	180	R for 4
Aldrin		2	9.486	9.759429	0.273		0.00024	(ND)	
Chlordane-gamma		2	10.73	10.97329	0.243		0.00087	23.8	
4,4'-DDE		2	11.246	11.47543	0.229		0.043	(J)	
Dieldrin		2	11.432	11.67429	0.242		0.00047	7.81	
Endrin	*	2	11.893	12.121	0.228		0.00040	50.1	J
4,4'-DDD		2	12.095	12.32514	0.23		0.0014	(J)	J
4,4'-DDT		2	12.541	12.77157	0.231		0.024	(J)	
Endrin aldehyde		2	12.666	12.927	0.261		0.00024	100	J
2,4,5,6-TCMX	*	1	6.582	6.848286	0.266		0.0252	5.16	
2,4,5,6-TCMX		2	6.322	6.564286	0.242		0.0240	4.88	
DBC	*	1	13.852	14.10214	0.25		0.0283	11.7	
DBC		2	13.686	13.90914	0.223		0.0253	12	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-20RE1	File ID:	9LOA011-0
Sampled:	11/29/06 09:50	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 15:31
Solids:	95.04	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.932	8.023286	0.0913		0.0032	5.59
gamma-BHC	* 1	8.538	8.628	0.09		0.0080	1.79
Heptachlor epoxide	* 1	10.866	10.95643	0.0904		0.00098	32.4 J
Chlordane-gamma	* 1	11.057	11.14771	0.0907		0.0092	31.9 J
Chlordane-alpha	* 1	11.286	11.34971	0.0637		0.00070	2650 A from
4,4'-DDE	* 1	11.394	11.48286	0.0889		0.00098	J
Dieldrin	* 1	11.831	11.91886	0.0879		0.00067	11.8
4,4'-DDT	* 1	12.695	12.78071	0.0857		0.00077	J
Methoxychlor	1	13.379	13.48543	0.106		0.0019	293 A from
Endrin ketone	* 1	14.137	14.25229	0.115		0.00042	
alpha-BHC	2	7.755	7.838	0.083		0.0034	5.55
gamma-BHC	2	8.414	8.497428	0.0834		0.0081	1.71
Heptachlor epoxide	2	10.596	10.67843	0.0824		0.0013	32.1 J
Chlordane-gamma	2	10.892	10.97329	0.0813		0.0069	31.8 J
Chlordane-alpha	2	11.112	11.19143	0.0794		0.019	2650 A from
4,4'-DDE	2	11.397	11.47543	0.0784		0.00098	J
Dieldrin	2	11.59	11.67429	0.0843		0.00060	11.7
4,4'-DDT	2	12.693	12.77157	0.0786		0.00056	J
Methoxychlor	* 2	13.72	13.77371	0.0537		0.00049	293 A from
2,4,5,6-TCMX	* 1	6.755	6.848286	0.0933		0.0338	4.57
2,4,5,6-TCMX	2	6.481	6.564286	0.0833		0.0323	4.53
DBC	* 1	14.016	14.10214	0.0861		0.0348	3.34
DBC	2	13.833	13.90914	0.0761		0.0337	3.36

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610307-20RE2	File ID:	9LQA013-0
Sampled:	11/29/06 09:50	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 16:50
Solids:	95.04	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.688	8.816429	0.128		0.25	3.97
delta-BHC	* 1	8.993	9.124286	0.131		0.36	3
beta-BHC	2	8.573	8.687429	0.114		0.26	3.81
delta-BHC	2	9.066	9.180286	0.114		0.37	3.07

* Column used for quantitation

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00089	Instrument:	JSVGCECD2
Calibration:	0612008		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20.5	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20.5	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20.5	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20.5	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20.5	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20.5	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20.5	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20.5	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20.5	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20.5	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20.5	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20.5	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20.5	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20.5	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20.5	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20.5	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20.5	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20.5	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20.5	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20.5	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20.5	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20.5	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20.5	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20.5	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20.5	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20.5	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20.5	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20.5	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20.5	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20.5	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20.5	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20.5	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20.5	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20.5	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20.5	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20.5	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20.5	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20.5	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20.5	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20.5	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20.5	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20.5	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20.5	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20.5	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20.5	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20.5	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20.5	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20.5	

Percent Solids via ENCO SOP WETS/72

Workgroup: 6L19012
Product: Solids, Dry Weight
Department: WETCHEM
Balance ID: AG285

Prep Date: 12/19/2006 14:03
Date Analyzed : 12/19/2006 15:54
Analyst(s): JAL

Lab ID	Sample Tag	Tin	Tin Wt. (g)	Tin+Sample (wet) (g)	Sample Wt (wet) (g)	Tin+Sample (dry) (g)	Sample Wt (dry) (g)	% Solids
6L19012-DUP1		1	2.5606	10.6156	8.0550	10.0394	7.4788	92.8467
B610306-18		2	2.5871	10.6189	8.0318	9.9992	7.4121	92.2844
B610306-19		3	2.6366	9.0772	6.4406	8.6945	6.0579	94.0580
B610306-20		4	2.6390	10.2754	7.6364	9.6734	7.0344	92.1167
B610307-01		5	2.5453	11.0750	8.5297	10.6725	8.1272	95.2812
B610307-02		6	2.6108	14.1988	11.5880	12.3110	9.7002	83.7090
B610307-03		7	2.6194	8.7073	6.0879	8.6252	6.0058	98.6514
B610307-04		8	2.5804	13.5365	10.9561	12.5372	9.9568	90.8791
B610307-05		9	2.6139	9.1015	6.4876	8.7200	6.1061	94.1196
B610307-06		10	2.6448	13.7081	11.0633	12.5964	9.9516	89.9515
B610307-07		11	2.6167	10.8278	8.2111	10.3907	7.7740	94.6767
B610307-08		12	2.6478	13.2089	10.5611	12.2145	9.5667	90.5843
B610307-09		13	2.6073	10.9953	8.3880	10.7483	8.1410	97.0553
B610307-10		14	2.6115	13.1328	10.5213	11.4057	8.7942	83.5847
B610307-11		15	2.5955	10.2143	7.6188	9.8132	7.2177	94.7354
B610307-12		16	2.5955	13.0639	10.4684	11.3685	8.7730	83.8046
B610307-13		17	2.6058	11.3467	8.7409	10.9631	8.3573	95.6114
B610307-14		18	2.6290	13.3353	10.7063	11.2590	8.6300	80.6067
B610307-15		19	2.5454	10.7272	8.1818	10.4179	7.8725	96.2197
B610307-16		20	2.5889	11.5690	8.9801	10.7501	8.1612	90.8809
B610307-17		21	2.5293	8.5752	6.0459	7.6343	5.1050	84.4374
CVS	(20 grams)				20.0001		20.0001	

Sample Duplicate: B610306-18
%RPD:

Oven ID: 1
Thermometer ID: 32

Initial Oven Temperature (degrees Celsius): 101.2
Initial Oven In Date/ Time: 12/19/2006 14:03

Final Oven Temperature (degrees Celsius): 100
Final Oven Out Date/ Time: 12/19/2006 15:16

Comments:

Percent Solids via ENCO SOP WETS/72

Workgroup: 6L19011
Product: Solids, Dry Weight
Department: WETCHEM
Balance ID: AG285

Prep Date: 12/19/2006 13:15
Date Analyzed : 12/19/2006 15:20
Analyst(s): JAL

Lab ID	Sample Tag	Tin	Tin Wt. (g)	Tin+Sample (wet) (g)	Sample Wt (wet) (g)	Tin+Sample (dry) (g)	Sample Wt (dry) (g)	% Solids
6L19011-DUP1		1	2.5568	9.4569	6.9001	8.5893	6.0325	87.4263
B610307-18		2	2.5716	9.2949	6.7233	8.5137	5.9421	88.3807
B610307-19		3	2.5517	8.7755	6.2238	8.7167	6.1650	99.0552
B610307-20		4	2.5694	7.7828	5.2134	7.5243	4.9549	95.0416
B610308-01		5	2.5649	7.8474	5.2825	7.8036	5.2387	99.1708
B610308-02		6	2.5748	9.9869	7.4121	9.7032	7.1284	96.1725
B610308-03		7	2.5420	9.3696	6.8276	9.2528	6.7108	98.2893
B610308-04		8	2.5536	9.9377	7.3841	8.8056	6.2520	84.6684
B610308-05		9	2.5628	14.1279	11.5651	10.8482	8.2854	71.6414
B610308-06		10	2.5556	15.0631	12.5075	12.9941	10.4385	83.4579
B610308-07		11	2.5581	11.3180	8.7599	11.0972	8.5391	97.4794
B610308-08		12	2.5417	9.3048	6.7631	9.1223	6.5806	97.3015
B610308-09		13	2.5524	9.6539	7.1015	9.0170	6.4646	91.0315
B610308-10		14	2.5521	17.1012	14.5491	13.3343	10.7822	74.1091
B610308-11		15	2.5804	11.4601	8.8797	10.5551	7.9747	89.8082
B610308-12		16	2.5582	11.7413	9.1831	10.7377	8.1795	89.0712
B610308-13		17	2.5459	10.0978	7.5519	9.8952	7.3493	97.3172
B610308-14		18	2.5713	14.3420	11.7707	13.5390	10.9677	93.1780
B610308-15		19	2.5467	11.3248	8.7781	10.9868	8.4401	96.1495
B610308-16		20	2.5663	12.6294	10.0631	11.6516	9.0853	90.2833
B610680-05		21	2.5675	14.5660	11.9985	12.3802	9.8127	81.7827
CVS	(20 grams)				20.0001		20.0001	

Sample Duplicate: B610307-18
%RPD:

Oven ID: 1
Thermometer ID: 32

Initial Oven Temperature (degrees Celsius): 105
Initial Oven In Date/ Time: 12/19/2006 13:15

Final Oven Temperature (degrees Celsius): 94
Final Oven Out Date/ Time: 12/19/2006 14:20

Comments:

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRA007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVA	Injection Time:	15:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0974	7.280474E+07	7.08887E+07		-2.6	20
gamma-BHC	A	0.100	0.0984	6.465721E+07	6.36334E+07		-1.6	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.36191E+07		1.7	20
delta-BHC	A	0.100	0.102	5.66961E+07	5.79384E+07		2.2	20
Heptachlor	A	0.100	0.0937	6.414063E+07	6.00894E+07		-6.3	20
Aldrin	A	0.100	0.0949	6.149162E+07	5.83374E+07		-5.1	20
Heptachlor epoxide	A	0.100	0.0928	5.405995E+07	5.0181E+07		-7.2	20
Chlordane-gamma	A	0.100	0.0943	5.527518E+07	5.21251E+07		-5.7	20
Chlordane-alpha	A	0.100	0.0932	5.296272E+07	4.93844E+07		-6.8	20
4,4′-DDE	A	0.100	0.0931	5.244698E+07	4.88021E+07		-6.9	20
Endosulfan I	A	0.100	0.0934	4.972951E+07	4.64721E+07		-6.6	20
Dieldrin	A	0.100	0.0927	5.436507E+07	5.04116E+07		-7.3	20
Endrin	A	0.100	0.0934	4.627937E+07	4.3202E+07		-6.6	20
4,4′-DDD	A	0.100	0.0944	4.00135E+07	3.77702E+07		-5.6	20
Endosulfan II	A	0.100	0.0926	4.442927E+07	4.11308E+07		-7.4	20
4,4′-DDT	A	0.100	0.0941	4.164772E+07	3.9193E+07		-5.9	20
Endrin aldehyde	A	0.100	0.0988	3.13612E+07	3.09958E+07		-1.2	20
Methoxychlor	A	0.100	0.0875	2.117353E+07	1.85231E+07		-12.5	20
Endosulfan sulfate	A	0.100	0.0961	3.673694E+07	3.52955E+07		-3.9	20
Endrin ketone	A	0.100	0.0936	4.568736E+07	4.27494E+07		-6.4	20
alpha-BHC [2C]	A	0.100	0.0982	7.552835E+07	7.41461E+07		-1.8	20
gamma-BHC [2C]	A	0.100	0.0981	6.719113E+07	6.59435E+07		-1.9	20
beta-BHC [2C]	A	0.100	0.103	2.472905E+07	2.54543E+07		2.9	20
delta-BHC [2C]	A	0.100	0.103	5.850208E+07	6.00641E+07		2.7	20
Heptachlor [2C]	A	0.100	0.0963	6.67268E+07	6.42558E+07		-3.7	20
Aldrin [2C]	A	0.100	0.0957	6.357242E+07	6.08174E+07		-4.3	20
Heptachlor epoxide [2C]	A	0.100	0.0935	5.626251E+07	5.26154E+07		-6.5	20
Chlordane-gamma [2C]	A	0.100	0.0953	5.722595E+07	5.45447E+07		-4.7	20
Chlordane-alpha [2C]	A	0.100	0.0930	5.472749E+07	5.08989E+07		-7.0	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRB007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVA	Injection Time:	15:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0948	5.341989E+07	5.06575E+07		-5.2	20
Endosulfan I [2C]	A	0.100	0.0935	5.087841E+07	4.758E+07		-6.5	20
Dieldrin [2C]	A	0.100	0.0938	5.608619E+07	5.25894E+07		-6.2	20
Endrin [2C]	A	0.100	0.0933	4.605028E+07	4.29679E+07		-6.7	20
4,4'-DDD [2C]	A	0.100	0.0942	4.157866E+07	3.91592E+07		-5.8	20
Endosulfan II [2C]	A	0.100	0.0932	4.58875E+07	4.27864E+07		-6.8	20
4,4'-DDT [2C]	A	0.100	0.0945	4.184652E+07	3.95436E+07		-5.5	20
Endrin aldehyde [2C]	A	0.100	0.100	3.232817E+07	3.2376E+07		0.1	20
Methoxychlor [2C]	A	0.100	0.0888	2.018515E+07	1.79167E+07		-11.2	20
Endosulfan sulfate [2C]	A	0.100	0.0974	3.836149E+07	3.73794E+07		-2.6	20
Endrin ketone [2C]	A	0.100	0.0930	4.596086E+07	4.2757E+07		-7.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRA018-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVB	Injection Time:	19:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.103	7.280474E+07	7.522E+07		3.3	20
gamma-BHC	A	0.100	0.104	6.465721E+07	6.71219E+07		3.8	20
beta-BHC	A	0.100	0.107	2.323065E+07	2.47873E+07		6.7	20
delta-BHC	A	0.100	0.108	5.66961E+07	6.09749E+07		7.5	20
Heptachlor	A	0.100	0.0979	6.414063E+07	6.28005E+07		-2.1	20
Aldrin	A	0.100	0.0998	6.149162E+07	6.13431E+07		-0.2	20
Heptachlor epoxide	A	0.100	0.0968	5.405995E+07	5.23213E+07		-3.2	20
Chlordane-gamma	A	0.100	0.0987	5.527518E+07	5.45532E+07		-1.3	20
Chlordane-alpha	A	0.100	0.0978	5.296272E+07	5.18046E+07		-2.2	20
4,4'-DDE	A	0.100	0.0969	5.244698E+07	5.08018E+07		-3.1	20
Endosulfan I	A	0.100	0.0979	4.972951E+07	4.86756E+07		-2.1	20
Dieldrin	A	0.100	0.0974	5.436507E+07	5.29543E+07		-2.6	20
Endrin	A	0.100	0.101	4.627937E+07	4.68539E+07		1.2	20
4,4'-DDD	A	0.100	0.0988	4.00135E+07	3.95481E+07		-1.2	20
Endosulfan II	A	0.100	0.0979	4.442927E+07	4.34836E+07		-2.1	20
4,4'-DDT	A	0.100	0.0987	4.164772E+07	4.11004E+07		-1.3	20
Endrin aldehyde	A	0.100	0.103	3.13612E+07	3.21647E+07		2.6	20
Methoxychlor	A	0.100	0.0906	2.117353E+07	1.91921E+07		-9.4	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.73407E+07		1.6	20
Endrin ketone	A	0.100	0.0972	4.568736E+07	4.43863E+07		-2.8	20
alpha-BHC [2C]	A	0.100	0.104	7.552835E+07	7.8712E+07		4.2	20
gamma-BHC [2C]	A	0.100	0.104	6.719113E+07	7.00462E+07		4.2	20
beta-BHC [2C]	A	0.100	0.109	2.472905E+07	2.70327E+07		9.3	20
delta-BHC [2C]	A	0.100	0.109	5.850208E+07	6.35978E+07		8.7	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.80629E+07		2.0	20
Aldrin [2C]	A	0.100	0.101	6.357242E+07	6.43039E+07		1.2	20
Heptachlor epoxide [2C]	A	0.100	0.0983	5.626251E+07	5.52999E+07		-1.7	20
Chlordane-gamma [2C]	A	0.100	0.101	5.722595E+07	5.7733E+07		0.9	20
Chlordane-alpha [2C]	A	0.100	0.0987	5.472749E+07	5.39945E+07		-1.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRB018-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVB	Injection Time:	19:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.100	5.341989E+07	5.34958E+07		0.1	20
Endosulfan I [2C]	A	0.100	0.0985	5.087841E+07	5.01219E+07		-1.5	20
Dieldrin [2C]	A	0.100	0.0985	5.608619E+07	5.5254E+07		-1.5	20
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.68819E+07		1.8	20
4,4'-DDD [2C]	A	0.100	0.0995	4.157866E+07	4.13854E+07		-0.5	20
Endosulfan II [2C]	A	0.100	0.0990	4.58875E+07	4.5425E+07		-1.0	20
4,4'-DDT [2C]	A	0.100	0.0981	4.184652E+07	4.10416E+07		-1.9	20
Endrin aldehyde [2C]	A	0.100	0.104	3.232817E+07	3.35636E+07		3.8	20
Methoxychlor [2C]	A	0.100	0.0904	2.018515E+07	1.82516E+07		-9.6	20
Endosulfan sulfate [2C]	A	0.100	0.103	3.836149E+07	3.9582E+07		3.2	20
Endrin ketone [2C]	A	0.100	0.0968	4.596086E+07	4.45032E+07		-3.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L07024-BLK1)			Lab File ID: 9LHA037-0		Analyzed: 12/14/06 04:13			
2,4,5,6-TCMX	0.0333	76	70 - 125	6.848	6.848286	-0.0003	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	78	70 - 125	6.565	6.564286	0.0007	+/-0.3	
DBC	0.0333	76	55 - 130	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	0.0333	80	55 - 130	13.909	13.90914	-0.0001	+/-0.3	
JAX47-SB094-01-112806 (B610307-09)			Lab File ID: 9LHA041-0		Analyzed: 12/14/06 05:57			
2,4,5,6-TCMX	0.0343	70	70 - 125	6.845	6.848286	-0.0033	+/-0.3	
2,4,5,6-TCMX [2C]	0.0343	69	70 - 125	6.562	6.564286	-0.0023	+/-0.3	*
DBC	0.0343	96	55 - 130	14.099	14.10214	-0.0031	+/-0.3	
DBC [2C]	0.0343	168	55 - 130	13.907	13.90914	-0.0021	+/-0.3	*
JAX47-SB094-06-112806 (B610307-10)			Lab File ID: 9LHA042-0		Analyzed: 12/14/06 06:23			
2,4,5,6-TCMX	0.0399	57	70 - 125	6.847	6.848286	-0.0013	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0399	59	70 - 125	6.564	6.564286	-0.0003	+/-0.3	*
DBC	0.0399	82	55 - 130	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	0.0399	68	55 - 130	13.909	13.90914	-0.0001	+/-0.3	
JAX47-SB095-01-112806 (B610307-11)			Lab File ID: 9LHA043-0		Analyzed: 12/14/06 06:49			
2,4,5,6-TCMX	0.0352	60	70 - 125	6.846	6.848286	-0.0023	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0352	60	70 - 125	6.564	6.564286	-0.0003	+/-0.3	*
DBC	0.0352	214	55 - 130	14.104	14.10214	0.0019	+/-0.3	*
DBC [2C]	0.0352	100	55 - 130	13.911	13.90914	0.0019	+/-0.3	
JAX47-SB095-06-112806 (B610307-12)			Lab File ID: 9LHA044-0		Analyzed: 12/14/06 07:15			
2,4,5,6-TCMX	0.0398	70	70 - 125	6.846	6.848286	-0.0023	+/-0.3	
2,4,5,6-TCMX [2C]	0.0398	82	70 - 125	6.564	6.564286	-0.0003	+/-0.3	
DBC	0.0398	78	55 - 130	14.101	14.10214	-0.0011	+/-0.3	
DBC [2C]	0.0398	81	55 - 130	13.909	13.90914	-0.0001	+/-0.3	
JAX47-SB097-01-112806 (B610307-13)			Lab File ID: 9LHA045-0		Analyzed: 12/14/06 07:41			
2,4,5,6-TCMX	0.0349	74	70 - 125	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	0.0349	78	70 - 125	6.565	6.564286	0.0007	+/-0.3	
DBC	0.0349	106	55 - 130	14.099	14.10214	-0.0031	+/-0.3	
DBC [2C]	0.0349	97	55 - 130	13.907	13.90914	-0.0021	+/-0.3	
JAX47-SB097-06-112806 (B610307-14)			Lab File ID: 9LHA046-0		Analyzed: 12/14/06 08:07			
2,4,5,6-TCMX	0.0414	78	70 - 125	6.845	6.848286	-0.0033	+/-0.3	
2,4,5,6-TCMX [2C]	0.0414	81	70 - 125	6.563	6.564286	-0.0013	+/-0.3	
DBC	0.0414	67	55 - 130	14.101	14.10214	-0.0011	+/-0.3	
DBC [2C]	0.0414	69	55 - 130	13.908	13.90914	-0.0011	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB084-05-112906 (B610307-16)			Lab File ID: 9A5A004A-0		Analyzed: 01/05/07 14:57			
2,4,5,6-TCMX	0.0367	83	70 - 125	6.582	6.848286	-0.2663	+/-0.3	
2,4,5,6-TCMX [2C]	0.0367	79	70 - 125	6.322	6.564286	-0.2423	+/-0.3	
DBC	0.0367	82	55 - 130	13.853	14.10214	-0.2491	+/-0.3	
DBC [2C]	0.0367	81	55 - 130	13.686	13.90914	-0.2231	+/-0.3	
JAX47-SB085-05-112906 (B610307-18)			Lab File ID: 9A5A005A-0		Analyzed: 01/05/07 15:23			
2,4,5,6-TCMX	0.0377	69	70 - 125	6.582	6.848286	-0.2663	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0377	66	70 - 125	6.321	6.564286	-0.2433	+/-0.3	*
DBC	0.0377	69	55 - 130	13.852	14.10214	-0.2501	+/-0.3	
DBC [2C]	0.0377	67	55 - 130	13.686	13.90914	-0.2231	+/-0.3	
JAX47-SB086-01-112906 (B610307-19)			Lab File ID: 9A5A006A-0		Analyzed: 01/05/07 15:49			
2,4,5,6-TCMX	0.0337	75	70 - 125	6.582	6.848286	-0.2663	+/-0.3	
2,4,5,6-TCMX [2C]	0.0337	71	70 - 125	6.322	6.564286	-0.2423	+/-0.3	
DBC	0.0337	84	55 - 130	13.852	14.10214	-0.2501	+/-0.3	
DBC [2C]	0.0337	75	55 - 130	13.686	13.90914	-0.2231	+/-0.3	
JAX47-SB085-01-112906 (B610307-17)			Lab File ID: 9A5A008-0		Analyzed: 01/05/07 16:41			
2,4,5,6-TCMX	0.0395	74	70 - 125	6.583	6.848286	-0.2653	+/-0.3	
2,4,5,6-TCMX [2C]	0.0395	72	70 - 125	6.322	6.564286	-0.2423	+/-0.3	
DBC	0.0395	96	55 - 130	13.853	14.10214	-0.2491	+/-0.3	
DBC [2C]	0.0395	77	55 - 130	13.687	13.90914	-0.2221	+/-0.3	
JAX47-SB084-01-112906 (B610307-15)			Lab File ID: 9A5A010-0		Analyzed: 01/05/07 17:32			
2,4,5,6-TCMX	0.0346	79	70 - 125	6.583	6.848286	-0.2653	+/-0.3	
2,4,5,6-TCMX [2C]	0.0346	77	70 - 125	6.322	6.564286	-0.2423	+/-0.3	
DBC	0.0346	84	55 - 130	13.854	14.10214	-0.2481	+/-0.3	
DBC [2C]	0.0346	100	55 - 130	13.687	13.90914	-0.2221	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L14027-BLK1)			Lab File ID: 9LOA006-0		Analyzed: 12/20/06 13:22			
2,4,5,6-TCMX	0.0333	84	70 - 125	6.757	6.848286	-0.0913	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	81	70 - 125	6.48	6.564286	-0.0843	+/-0.3	
DBC	0.0333	88	55 - 130	14.017	14.10214	-0.0851	+/-0.3	
DBC [2C]	0.0333	86	55 - 130	13.832	13.90914	-0.0771	+/-0.3	
JAX47-SB086-06-112906 (B610307-20RE1)			Lab File ID: 9LOA011-0		Analyzed: 12/20/06 15:31			
2,4,5,6-TCMX	0.0351	96	70 - 125	6.755	6.848286	-0.0933	+/-0.3	
2,4,5,6-TCMX [2C]	0.0351	92	70 - 125	6.481	6.564286	-0.0833	+/-0.3	
DBC	0.0351	99	55 - 130	14.016	14.10214	-0.0861	+/-0.3	
DBC [2C]	0.0351	96	55 - 130	13.833	13.90914	-0.0761	+/-0.3	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**FEBRUARY 23, 2007**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
NAS JACKSONVILLE – CTO 047
SDG – BR006-006

SAMPLES: 20/Soil/

JAX47-SB074-01-112806	JAX47-SB074-06-112806
JAX47-SB075-01-112806	JAX47-SB075-06-112806
JAX47-SB076-01-112806	JAX47-SB076-06-112806
JAX47-SB077-01-112806	JAX47-SB077-06-112806
JAX47-SB084-01-112906	JAX47-SB084-05-112906
JAX47-SB085-01-112906	JAX47-SB085-05-112906
JAX47-SB086-01-112906	JAX47-SB086-06-112906
JAX47-SB094-01-112806	JAX47-SB094-06-112806
JAX47-SB095-01-112806	JAX47-SB095-06-112806
JAX47-SB097-01-112806	JAX47-SB097-06-112806

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-006, consists of twenty solid environmental samples.

All of the samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS on November 28-29, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using SW-846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Result
* • Matrix Spike Recoveries
* • Laboratory Control Sample Recoveries
• Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminant was detected in the laboratory method/preparation blank at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Arsenic [1]	0.15 mg/kg	0.75 mg/kg

[1] Maximum contaminant level detected in the laboratory method blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Arsenic was qualified due to laboratory blank contamination.

Notes

Non-detected arsenic results were not reported down to both the method detection limit (MDL) and the method reporting limit (MRL) on Form I reports as requested in the laboratory scope-of-work and required by the state of Florida. Non-detects were reported down to the MRL on Form I reports. The laboratory correctly reported the non-detected arsenic results down to the MDL in the electronic data deliverable (EDD).

The laboratory only reported non-detected results to one significant figure.

The arsenic result on the laboratory method blank form was not reported down to the MDL.

Executive Summary

Laboratory Performance: Arsenic was qualified due to laboratory blank contamination.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", July 2002, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB074-01-112806	nsample	JAX47-SB074-06-112806	nsample	JAX47-SB075-01-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610307-01	lab_id	B610307-02	lab_id	B610307-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	95.3	Pct_Solids	83.7	Pct_Solids	98.7
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4.5		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB075-06-112806	nsample	JAX47-SB076-01-112806	nsample	JAX47-SB076-06-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610307-04	lab_id	B610307-05	lab_id	B610307-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	90.9	Pct_Solids	94.1	Pct_Solids	90.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB077-01-112806	nsample	JAX47-SB077-06-112806	nsample	JAX47-SB084-01-112906
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/29/2006
lab_id	B610307-07	lab_id	B610307-08	lab_id	B610307-15
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	94.7	Pct_Solids	90.6	Pct_Solids	96.2
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.6		

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB084-05-112906	nsample	JAX47-SB085-01-112906	nsample	JAX47-SB085-05-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610307-16	lab_id	B610307-17	lab_id	B610307-18
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	90.9	Pct_Solids	84.4	Pct_Solids	88.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	30.5		

Parameter	Result	Val Qual	Qual Code
ARSENIC	7.8		

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.7		

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB086-01-112906	nsample	JAX47-SB086-06-112906	nsample	JAX47-SB094-01-112806
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/28/2006
lab_id	B610307-19	lab_id	B610307-20	lab_id	B610307-09
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	99.1	Pct_Solids	95.0	Pct_Solids	97.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.4		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	A

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB094-06-112806	nsample	JAX47-SB095-01-112806	nsample	JAX47-SB095-06-112806
samp_date	11/28/2006	samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610307-10	lab_id	B610307-11	lab_id	B610307-12
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	83.6	Pct_Solids	94.7	Pct_Solids	83.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.1		

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.3		

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.2		

PROJ_NO: 00497

SDG: BR006-006 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB097-01-112806	nsample	JAX47-SB097-06-112806
samp_date	11/28/2006	samp_date	11/28/2006
lab_id	B610307-13	lab_id	B610307-14
qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG
Pct_Solids	95.6	Pct_Solids	80.6
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.5	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB074-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-01 | File ID: 122106a-045

Sampled: 11/28/06 14:50 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 21:01

Solids: 95.28 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	4.5	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB074-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-02 | File ID: 122106a-049

Sampled: 11/28/06 16:20 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 21:28

Solids: 83.71 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB075-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-03 | File ID: 122106a-050

Sampled: 11/28/06 15:32 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 21:36

Solids: 98.65 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB075-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-04 | File ID: 122106a-051

Sampled: 11/28/06 16:14 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 21:43

Solids: 90.88 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.2	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB076-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-05 | File ID: 122106a-052

Sampled: 11/28/06 15:18 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 21:50

Solids: 94.12 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB076-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-06 | File ID: 122106a-053

Sampled: 11/28/06 16:32 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 21:57

Solids: 89.95 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB077-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-07 | File ID: 122106a-054

Sampled: 11/28/06 14:38 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 22:04

Solids: 94.68 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB077-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-08 | File ID: 122106a-055

Sampled: 11/28/06 15:07 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 22:11

Solids: 90.58 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB084-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-15 | File ID: 122106a-065

Sampled: 11/29/06 13:32 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 23:20

Solids: 96.22 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.6	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB084-05-112906

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610307-16
File ID: 122106a-066
Sampled: 11/29/06 13:44
Prepared: 12/15/06 11:11
Analyzed: 12/21/06 23:26
Solids: 90.88
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 6L15009
Sequence: BA00116
Calibration: 0612017
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	30.5	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB085-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-17 | File ID: 122106a-067

Sampled: 11/29/06 13:55 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 23:33

Solids: 84.44 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	7.8	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB085-05-112906

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-18 | File ID: 122106a-068

Sampled: 11/29/06 14:02 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 23:39

Solids: 88.38 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.7	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB086-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-19 | File ID: 122106a-069

Sampled: 11/29/06 09:43 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 23:46

Solids: 99.06 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB086-06-112906

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-20 | File ID: 122106a-070

Sampled: 11/29/06 09:50 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 23:52

Solids: 95.04 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.4	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB094-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-09 | File ID: 122106a-056

Sampled: 11/28/06 14:00 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 22:18

Solids: 97.06 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.3	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB094-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-10 | File ID: 122106a-057

Sampled: 11/28/06 14:25 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 22:24

Solids: 83.58 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.1	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB095-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-11 | File ID: 122106a-058

Sampled: 11/28/06 14:41 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 22:31

Solids: 94.74 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.3	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB095-06-112806

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610307-12
File ID: 122106a-062
Sampled: 11/28/06 14:46
Prepared: 12/15/06 11:11
Analyzed: 12/21/06 22:58
Solids: 83.80
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 6L15009
Sequence: BA00116
Calibration: 0612017
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.2	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB097-01-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-13 | File ID: 122106a-063

Sampled: 11/28/06 15:10 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 23:05

Solids: 95.61 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB097-06-112806

Laboratory: ENCO Jacksonville | SDG: BR006-006

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610307-14 | File ID: 122106a-064

Sampled: 11/28/06 15:15 | Prepared: 12/15/06 11:11 | Analyzed: 12/21/06 23:12

Solids: 80.61 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15009 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1	U	EPA 6010B

APPENDIX C
SUPPORT DOCUMENTATION

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Regs	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chad McG	11-30-06	1130	[signature]	11/30/06	1135 H
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

HOLDTIME

SDG BR006-006

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB086-06-112906	B610307-20	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB074-01-112806	B610307-01	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB097-06-112806	B610307-14	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB097-01-112806	B610307-13	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB095-06-112806	B610307-12	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB095-01-112806	B610307-11	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB094-01-112806	B610307-09	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB086-01-112906	B610307-19	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB085-05-112906	B610307-18	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB085-01-112906	B610307-17	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB075-06-112806	B610307-04	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB074-06-112806	B610307-02	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB094-06-112806	B610307-10	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB075-01-112806	B610307-03	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB084-05-112906	B610307-16	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB076-01-112806	B610307-05	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB076-06-112806	B610307-06	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB077-01-112806	B610307-07	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB077-06-112806	B610307-08	NM	11/28/2006	12/15/2006	12/21/2006	17	6	23
M	MG/KG	JAX47-SB084-01-112906	B610307-15	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
OS	%	JAX47-SB094-01-112806	B610307-09	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	%	JAX47-SB094-06-112806	B610307-10	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	%	JAX47-SB084-05-112906	B610307-16	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	%	JAX47-SB085-01-112906	B610307-17	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	%	JAX47-SB085-05-112906	B610307-18	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	%	JAX47-SB086-01-112906	B610307-19	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	%	JAX47-SB086-06-112906	B610307-20	NM	11/29/2006	12/7/2006	12/14/2006	8	7	15
OS	%	JAX47-SB084-01-112906	B610307-15	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	%	JAX47-SB095-01-112806	B610307-11	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	%	JAX47-SB095-06-112806	B610307-12	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	%	JAX47-SB097-01-112806	B610307-13	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	%	JAX47-SB097-06-112806	B610307-14	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	%	JAX47-SB086-06-112906	B610307-20RE1	NM	11/29/2006	12/14/2006	12/20/2006	15	6	21

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB095-06-112806	B610307-12	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	MG/KG	JAX47-SB094-01-112806	B610307-09RE2	NM	11/28/2006	12/7/2006	12/23/2006	9	16	25
OS	MG/KG	JAX47-SB094-01-112806	B610307-09RE3	NM	11/28/2006	12/7/2006	12/23/2006	9	16	25
OS	MG/KG	JAX47-SB094-06-112806	B610307-10	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	MG/KG	JAX47-SB094-06-112806	B610307-10RE1	NM	11/28/2006	12/7/2006	12/23/2006	9	16	25
OS	MG/KG	JAX47-SB095-01-112806	B610307-11	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	MG/KG	JAX47-SB095-01-112806	B610307-11RE2	NM	11/28/2006	12/7/2006	12/27/2006	9	20	29
OS	MG/KG	JAX47-SB086-06-112906	B610307-20RE1	NM	11/29/2006	12/14/2006	12/20/2006	15	6	21
OS	MG/KG	JAX47-SB097-01-112806	B610307-13	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	MG/KG	JAX47-SB097-01-112806	B610307-13RE1	NM	11/28/2006	12/7/2006	12/23/2006	9	16	25
OS	MG/KG	JAX47-SB095-01-112806	B610307-11RE1	NM	11/28/2006	12/7/2006	12/23/2006	9	16	25
OS	MG/KG	JAX47-SB094-01-112806	B610307-09RE1	NM	11/28/2006	12/7/2006	12/23/2006	9	16	25
OS	MG/KG	JAX47-SB086-06-112906	B610307-20RE2	NM	11/29/2006	12/14/2006	12/22/2006	15	8	23
OS	MG/KG	JAX47-SB097-06-112806	B610307-14	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16
OS	MG/KG	JAX47-SB086-06-112906	B610307-20	NM	11/29/2006	12/7/2006	12/14/2006	8	7	15
OS	MG/KG	JAX47-SB086-01-112906	B610307-19	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	MG/KG	JAX47-SB085-05-112906	B610307-18	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	MG/KG	JAX47-SB085-01-112906	B610307-17	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB084-05-112906	B610307-16	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	MG/KG	JAX47-SB084-01-112906	B610307-15RE2	NM	11/29/2006	12/7/2006	12/23/2006	8	16	24
OS	MG/KG	JAX47-SB084-01-112906	B610307-15RE1	NM	11/29/2006	12/7/2006	12/23/2006	8	16	24
OS	MG/KG	JAX47-SB084-01-112906	B610307-15	NM	11/29/2006	12/7/2006	1/5/2007	8	29	37
OS	MG/KG	JAX47-SB094-01-112806	B610307-09	NM	11/28/2006	12/7/2006	12/14/2006	9	7	16

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081a. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits due to the sample matrix.
- The surrogate 2,4,5,6-TCMX for JAX47-SB094-06-112806 and JAX47-SB085-05-112906 was outside the DoD QSM control limits, however the surrogate was within the laboratory established control limits which are 54-153 for primary column and 55-152 for secondary column.
- The surrogate recovery for JAX47-SB095-01-112806 was outside the DoD QSM control limits due to sample matrix.
- JAX47-SB086-06-112906 was re-extracted outside of the method established hold time. Re-extraction was necessary due to the lack of surrogate noted in the primary extraction.
- CCVF was outside of DoD QSM control limits for 4,4-DDT, therefore results for this compound in any samples should be considered estimated.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.13 12:15:42 -05'00'

Christina M. Tompkins
Project Manager

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-006

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB074-01-112806	B610307-01
JAX47-SB074-06-112806	B610307-02
JAX47-SB075-01-112806	B610307-03
JAX47-SB075-06-112806	B610307-04
JAX47-SB076-01-112806	B610307-05
JAX47-SB076-06-112806	B610307-06
JAX47-SB077-01-112806	B610307-07
JAX47-SB077-06-112806	B610307-08
JAX47-SB094-01-112806	B610307-09
JAX47-SB094-06-112806	B610307-10
JAX47-SB095-01-112806	B610307-11
JAX47-SB095-06-112806	B610307-12
JAX47-SB097-01-112806	B610307-13
JAX47-SB097-06-112806	B610307-14
JAX47-SB084-01-112906	B610307-15
JAX47-SB084-05-112906	B610307-16
JAX47-SB085-01-112906	B610307-17
JAX47-SB085-05-112906	B610307-18
JAX47-SB086-01-112906	B610307-19
JAX47-SB086-06-112906	B610307-20

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.13 12:16:17 -05'00'

Name: Christina M. Tompkins

Date: 01-02-07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-006

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	0.2	0.5	mg/kg

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Control Limt: +/- 10.00%

SDG: BR006-006
Project: NAS Jacksonville, CTO 047
Calibration: 0612017
Sequence: BA00116

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00116-ICV1	Arsenic	0.500	0.490	98	mg/L	EPA 6010B
BA00116-CCV2	Arsenic	0.500	0.493	99	mg/L	EPA 6010B
BA00116-CCV3	Arsenic	0.500	0.496	99	mg/L	EPA 6010B
BA00116-CCV4	Arsenic	0.500	0.487	97	mg/L	EPA 6010B
BA00116-CCV5	Arsenic	0.500	0.488	98	mg/L	EPA 6010B

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612017
Sequence: BA00116

Lab Sample ID	Analyte	True	Found	%R	Units
BA00116-IFA1	Arsenic	1.00	1.00	100	mg/L
	Arsenic	1.00	1.00	100	mg/L

* Values outside of QC limits

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	6L15009-BLK1	File ID:	122106a-041
Prepared:	12/15/06 11:11	Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL
Analyzed:	12/21/06 20:33	Instrument:	JMICP1		
Batch:	6L15009	Sequence:	BA00116	Calibration:	0612017

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7440-38-2	Arsenic	0.5	U

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-006
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00116
Calibration: 0612017

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00116-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00116-CCB2	Arsenic	0.000351	0.01	mg/L		EPA 6010B
6L15009-BLK1	Arsenic	0.155	0.5	mg/kg wet		EPA 6010B
BA00116-CCB3	Arsenic	0.00115	0.01	mg/L		EPA 6010B
BA00116-CCB4	Arsenic	0.000939	0.01	mg/L		EPA 6010B
BA00116-CCB5	Arsenic	0.00152	0.01	mg/L		EPA 6010B

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX47-SB074-01-112806

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L15009	Laboratory ID:	6L15009-MS1
Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL

Source Sample Name: JAX47-SB074-01-112806

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Arsenic	52.5	4.50	46.3	80	80 - 120

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	52.5	46.6	80	0.6	20	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L15009	Laboratory ID:	6L15009-BS1
Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Arsenic	50.0	47.9	96	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Prepared: 15-Dec-06 11:11 | 6L15009 | Printed: 12/15/06 11:12:16AM

ENCO Jacksonville

Matrix: Soil

Prepared using: METALS - EPA 3050B

Sample ID	Sample ID . Source Sample and Location	AMT DIGESTED mL g L	Final Vol (mL)	Due Date	Spike Amount uL 1 | 2	Comments
6L15009-BLK1	Blank	1	50		|	95°C
6L15009-BS1	LCS	1	50		500 | 500	
6L15009-MS1	Matrix Spike [B610307-01]	1.00			500 | 500	
6L15009-MSD1	Matrix Spike Dup [B610307-01]	1.00			500 | 500	
B610307-01	JAX47-SB074-01-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	MS
B610307-02	JAX47-SB074-06-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-03	JAX47-SB075-01-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-04	JAX47-SB075-06-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-05	JAX47-SB076-01-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-06	JAX47-SB076-06-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-07	JAX47-SB077-01-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-08	JAX47-SB077-06-112806 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-09	JAX47-SB094-01-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-10	JAX47-SB094-06-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-11	JAX47-SB095-01-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-12	JAX47-SB095-06-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-13	JAX47-SB097-01-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-14	JAX47-SB097-06-112806 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-15	JAX47-SB084-01-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-16	JAX47-SB084-05-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-17	JAX47-SB085-01-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-18	JAX47-SB085-05-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-19	JAX47-SB086-01-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610307-20	JAX47-SB086-06-112906 B[E21]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	

Standard(s):
B6I10156 ICP Spike A / QCS-1 500 uL

Standard ID#	Description	Manufacture Lot#

B6I10158 ICP Spike B / QCS-1 500 uL

12-16-06

Prepared By Date Preparation Reviewed By Date

Percent Solids via ENCO SOP WETS/72

Workgroup: 6L19012
Product: Solids, Dry Weight
Department: WETCHEM
Balance ID: AG285

Prep Date: 12/19/2006 14:03
Date Analyzed : 12/19/2006 15:54
Analyst(s): JAL

Lab ID	Sample Tag	Tin	Tin Wt. (g)	Tin+Sample (wet) (g)	Sample Wt (wet) (g)	Tin+Sample (dry) (g)	Sample Wt (dry) (g)	% Solids
6L19012-DUP1		1	2.5606	10.6156	8.0550	10.0394	7.4788	92.8467
B610306-18		2	2.5871	10.6189	8.0318	9.9992	7.4121	92.2844
B610306-19		3	2.6366	9.0772	6.4406	8.6945	6.0579	94.0580
B610306-20		4	2.6390	10.2754	7.6364	9.6734	7.0344	92.1167
B610307-01		5	2.5453	11.0750	8.5297	10.6725	8.1272	95.2812
B610307-02		6	2.6108	14.1988	11.5880	12.3110	9.7002	83.7090
B610307-03		7	2.6194	8.7073	6.0879	8.6252	6.0058	98.6514
B610307-04		8	2.5804	13.5365	10.9561	12.5372	9.9568	90.8791
B610307-05		9	2.6139	9.1015	6.4876	8.7200	6.1061	94.1196
B610307-06		10	2.6448	13.7081	11.0633	12.5964	9.9516	89.9515
B610307-07		11	2.6167	10.8278	8.2111	10.3907	7.7740	94.6767
B610307-08		12	2.6478	13.2089	10.5611	12.2145	9.5667	90.5843
B610307-09		13	2.6073	10.9953	8.3880	10.7483	8.1410	97.0553
B610307-10		14	2.6115	13.1328	10.5213	11.4057	8.7942	83.5847
B610307-11		15	2.5955	10.2143	7.6188	9.8132	7.2177	94.7354
B610307-12		16	2.5955	13.0639	10.4684	11.3685	8.7730	83.8046
B610307-13		17	2.6058	11.3467	8.7409	10.9631	8.3573	95.6114
B610307-14		18	2.6290	13.3353	10.7063	11.2590	8.6300	80.6067
B610307-15		19	2.5454	10.7272	8.1818	10.4179	7.8725	96.2197
B610307-16		20	2.5889	11.5690	8.9801	10.7501	8.1612	90.8809
B610307-17		21	2.5293	8.5752	6.0459	7.6343	5.1050	84.4374
CVS	(20 grams)				20.0001		20.0001	

Sample Duplicate: B610306-18
%RPD:

Oven ID: 1
Thermometer ID: 32

Initial Oven Temperature (degrees Celsius): 101.2
Initial Oven In Date/ Time: 12/19/2006 14:03

Final Oven Temperature (degrees Celsius): 100
Final Oven Out Date/ Time: 12/19/2006 15:16

Comments:

Percent Solids via ENCO SOP WETS/72

Workgroup: 6L19011
Product: Solids, Dry Weight
Department: WETCHEM
Balance ID: AG285

Prep Date: 12/19/2006 13:15
Date Analyzed : 12/19/2006 15:20
Analyst(s): JAL

Lab ID	Sample Tag	Tin	Tin Wt. (g)	Tin+Sample (wet) (g)	Sample Wt (wet) (g)	Tin+Sample (dry) (g)	Sample Wt (dry) (g)	% Solids
6L19011-DUP1		1	2.5568	9.4569	6.9001	8.5893	6.0325	87.4263
B610307-18		2	2.5716	9.2949	6.7233	8.5137	5.9421	88.3807
B610307-19		3	2.5517	8.7755	6.2238	8.7167	6.1650	99.0552
B610307-20		4	2.5694	7.7828	5.2134	7.5243	4.9549	95.0416
B610308-01		5	2.5649	7.8474	5.2825	7.8036	5.2387	99.1708
B610308-02		6	2.5748	9.9869	7.4121	9.7032	7.1284	96.1725
B610308-03		7	2.5420	9.3696	6.8276	9.2528	6.7108	98.2893
B610308-04		8	2.5536	9.9377	7.3841	8.8056	6.2520	84.6684
B610308-05		9	2.5628	14.1279	11.5651	10.8482	8.2854	71.6414
B610308-06		10	2.5556	15.0631	12.5075	12.9941	10.4385	83.4579
B610308-07		11	2.5581	11.3180	8.7599	11.0972	8.5391	97.4794
B610308-08		12	2.5417	9.3048	6.7631	9.1223	6.5806	97.3015
B610308-09		13	2.5524	9.6539	7.1015	9.0170	6.4646	91.0315
B610308-10		14	2.5521	17.1012	14.5491	13.3343	10.7822	74.1091
B610308-11		15	2.5804	11.4601	8.8797	10.5551	7.9747	89.8082
B610308-12		16	2.5582	11.7413	9.1831	10.7377	8.1795	89.0712
B610308-13		17	2.5459	10.0978	7.5519	9.8952	7.3493	97.3172
B610308-14		18	2.5713	14.3420	11.7707	13.5390	10.9677	93.1780
B610308-15		19	2.5467	11.3248	8.7781	10.9868	8.4401	96.1495
B610308-16		20	2.5663	12.6294	10.0631	11.6516	9.0853	90.2833
B610680-05		21	2.5675	14.5660	11.9985	12.3802	9.8127	81.7827
CVS	(20 grams)				20.0001		20.0001	

Sample Duplicate: B610307-18
%RPD:

Oven ID: 1
Thermometer ID: 32

Initial Oven Temperature (degrees Celsius): 105
Initial Oven In Date/ Time: 12/19/2006 13:15

Final Oven Temperature (degrees Celsius): 94
Final Oven Out Date/ Time: 12/19/2006 14:20

Comments:

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-006

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L15009 Batch Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L15009-BLK1	122106a-041	12/15/06 11:11	
LCS	6L15009-BS1	122106a-042	12/15/06 11:11	
JAX47-SB074-01-112806	6L15009-MS1	122106a-043	12/15/06 11:11	
JAX47-SB074-01-112806	6L15009-MSD1	122106a-044	12/15/06 11:11	
JAX47-SB074-01-112806	B610307-01	122106a-045	12/15/06 11:11	
JAX47-SB074-06-112806	B610307-02	122106a-049	12/15/06 11:11	
JAX47-SB075-01-112806	B610307-03	122106a-050	12/15/06 11:11	
JAX47-SB075-06-112806	B610307-04	122106a-051	12/15/06 11:11	
JAX47-SB076-01-112806	B610307-05	122106a-052	12/15/06 11:11	
JAX47-SB076-06-112806	B610307-06	122106a-053	12/15/06 11:11	
JAX47-SB077-01-112806	B610307-07	122106a-054	12/15/06 11:11	
JAX47-SB077-06-112806	B610307-08	122106a-055	12/15/06 11:11	
JAX47-SB094-01-112806	B610307-09	122106a-056	12/15/06 11:11	
JAX47-SB094-06-112806	B610307-10	122106a-057	12/15/06 11:11	
JAX47-SB095-01-112806	B610307-11	122106a-058	12/15/06 11:11	
JAX47-SB095-06-112806	B610307-12	122106a-062	12/15/06 11:11	
JAX47-SB097-01-112806	B610307-13	122106a-063	12/15/06 11:11	
JAX47-SB097-06-112806	B610307-14	122106a-064	12/15/06 11:11	
JAX47-SB084-01-112906	B610307-15	122106a-065	12/15/06 11:11	
JAX47-SB084-05-112906	B610307-16	122106a-066	12/15/06 11:11	
JAX47-SB085-01-112906	B610307-17	122106a-067	12/15/06 11:11	
JAX47-SB085-05-112906	B610307-18	122106a-068	12/15/06 11:11	
JAX47-SB086-01-112906	B610307-19	122106a-069	12/15/06 11:11	
JAX47-SB086-06-112906	B610307-20	122106a-070	12/15/06 11:11	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00116	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0612017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00116-ICB1	122106a-001	12/21/06 16:01
Cal Standard	BA00116-CAL1	122106a-002	12/21/06 16:07
Instrument Blank	BA00116-IBL1	122106a-003	12/21/06 16:15
Low Cal Check	BA00116-LCV1	122106a-004	12/21/06 16:22
Secondary Cal Check	BA00116-SCV1	122106a-005	12/21/06 16:28
Initial Cal Check	BA00116-ICV1	122106a-006	12/21/06 16:35
Interference Check A	BA00116-IFA1	122106a-008	12/21/06 16:48
Calibration Blank	BA00116-CCB2	122106a-034	12/21/06 19:45
Calibration Check	BA00116-CCV2	122106a-035	12/21/06 19:51
Blank	6L15009-BLK1	122106a-041	12/21/06 20:33
LCS	6L15009-BS1	122106a-042	12/21/06 20:40
JAX47-SB074-01-112806	6L15009-MS1	122106a-043	12/21/06 20:47
JAX47-SB074-01-112806	6L15009-MSD1	122106a-044	12/21/06 20:54
JAX47-SB074-01-112806	B610307-01	122106a-045	12/21/06 21:01
Calibration Blank	BA00116-CCB3	122106a-047	12/21/06 21:15
Calibration Check	BA00116-CCV3	122106a-048	12/21/06 21:21
JAX47-SB074-06-112806	B610307-02	122106a-049	12/21/06 21:28
JAX47-SB075-01-112806	B610307-03	122106a-050	12/21/06 21:36
JAX47-SB075-06-112806	B610307-04	122106a-051	12/21/06 21:43
JAX47-SB076-01-112806	B610307-05	122106a-052	12/21/06 21:50
JAX47-SB076-06-112806	B610307-06	122106a-053	12/21/06 21:57
JAX47-SB077-01-112806	B610307-07	122106a-054	12/21/06 22:04
JAX47-SB077-06-112806	B610307-08	122106a-055	12/21/06 22:11
JAX47-SB094-01-112806	B610307-09	122106a-056	12/21/06 22:18
JAX47-SB094-06-112806	B610307-10	122106a-057	12/21/06 22:24
JAX47-SB095-01-112806	B610307-11	122106a-058	12/21/06 22:31
Calibration Blank	BA00116-CCB4	122106a-060	12/21/06 22:45
Calibration Check	BA00116-CCV4	122106a-061	12/21/06 22:52
JAX47-SB095-06-112806	B610307-12	122106a-062	12/21/06 22:58
JAX47-SB097-01-112806	B610307-13	122106a-063	12/21/06 23:05
JAX47-SB097-06-112806	B610307-14	122106a-064	12/21/06 23:12
JAX47-SB084-01-112906	B610307-15	122106a-065	12/21/06 23:20

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-006
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00116	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0612017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB084-05-112906	B610307-16	122106a-066	12/21/06 23:26
JAX47-SB085-01-112906	B610307-17	122106a-067	12/21/06 23:33
JAX47-SB085-05-112906	B610307-18	122106a-068	12/21/06 23:39
JAX47-SB086-01-112906	B610307-19	122106a-069	12/21/06 23:46
JAX47-SB086-06-112906	B610307-20	122106a-070	12/21/06 23:52
Calibration Blank	BA00116-CCB5	122106a-073	12/22/06 00:13
Calibration Check	BA00116-CCV5	122106a-074	12/22/06 00:20

SRV: JAX47-SB074-01-112806 [As] = 4.5 mg/kg as reported by the laboratory.

Pb 220.353	12,159.6	0.9932	0.00062	mg/L	0.9932	0.00062	mg/L	0.06 %
Sb 206.833	1,213.3	0.2859	0.00347	mg/L	0.2859	0.00347	mg/L	1.22 %
Se 196.026	2,035.5	0.8775	0.00404	mg/L	0.8775	0.00404	mg/L	0.46 %
Sn 189.933	5,236.3	0.8635	0.00253	mg/L	0.8635	0.00253	mg/L	0.29 %
Sr 421.539R	1,747,645.9	2.055	0.0565	mg/L	2.055	0.0565	mg/L	2.75 %
Ti 337.280	726,086.4	0.9486	0.00912	mg/L	0.9486	0.00912	mg/L	0.96 %
Tl 190.800	1,053.8	0.4402	0.00577	mg/L	0.4402	0.00577	mg/L	1.31 %
V 292.402	133,846.3	0.5024	0.00475	mg/L	0.5024	0.00475	mg/L	0.95 %
Zn 206.191	43,071.9	0.9304	0.00370	mg/L	0.9304	0.00370	mg/L	0.40 %

Mean Data

ID: b610307-01 **Seq. No.:** 45 **A/S Pos:** 52

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2006/12/21 20:59:27

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	218,325.9	96.2	0.60	%			%	0.63 %
Y361.105A	1,418,119.8	96.8	0.64	%			%	0.66 %
Ag 338.289	1,061.9	0.0060	0.00031	mg/L	0.0060	0.00031	mg/L	5.08 %
Ag 328.068	1,349.5	0.0043	0.00037	mg/L	0.0043	0.00037	mg/L	8.64 %
Al 308.215	53,734.8	21.0	0.31	mg/L	21.0	0.31	mg/L	1.49 %
As 188.979	204.5	0.0858	0.00706	mg/L	0.0858	0.00706	mg/L	8.24 %
Ba 233.527	28,926.4	0.1741	0.00157	mg/L	0.1741	0.00157	mg/L	0.90 %
Be 313.107	7,527.1	0.0011	0.00003	mg/L	0.0011	0.00003	mg/L	2.77 %
B 208.959	299.7	0.0171	0.00017	mg/L	0.0171	0.00017	mg/L	1.00 %
Ca 317.933				mg/L			mg/L	%
Ca Radial	26,421,710.9	1016	39.7	mg/L	1016	39.7	mg/L	3.91 %
Cd 226.502	779.1	0.0050	0.00001	mg/L	0.0050	0.00001	mg/L	0.25 %

$$\frac{0.0858\ mg}{K} \cdot \frac{0.05K}{1.00g} \cdot \frac{1000g}{1Kg} \cdot \frac{1}{0.953} = 4.50\ mg/Kg$$

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MARK PETERSON** **DATE:** **MARCH 6, 2007**

FROM: **PRESTON SMITH** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- PESTICIDES**
CTO 047, NAS JACKSONVILLE
SDG BR006-007

SAMPLES: 20/Soil

JAX47-SB092-01-112906	JAX47-SB092-06-112906
JAX47-SB093-01-112906	JAX47-SB093-06-112906
JAX47-SB101-01-112906	JAX47-SB101-05-112906
JAX47-SB102-01-112906	JAX47-SB102-05-112906
JAX47-SB103-01-112906	JAX47-SB103-05-112906
JAX47-SB104-01-112906	JAX47-SB104-05-112906
JAX47-SB108-01-112906	JAX47-SB108-06-112906
JAX47-SB109-01-112906	JAX47-SB109-06-112906
JAX47-SB111-01-112906	JAX47-SB111-05-112906
JAX47-SB112-01-112906	JAX47-SB112-05-112906

OVERVIEW

The sample set for CTO 047, NAS Jacksonville, SDG BR006-007 consists of twenty (20) environmental soil samples. All above soil samples were analyzed for Target Compound List (TCL) organochlorine pesticides (PEST).

The samples were collected by TetraTech NUS on November 29, 2006 and analyzed by Environmental Conservation Laboratories, Inc. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8081A analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial and continuing calibration
• Blank results
• Surrogate spike recoveries
• Blank Spike/Blank Spike Duplicate Results
• Matrix Spike/Matrix Spike Duplicate Results
* • Detection Limits
• Compound Quantitation
* • Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Pesticides

The laboratory reported down to Reporting Limits (RL) on all Form Is for all compounds instead of to Method Detection Limits (MDLs). However, MDLs were included in the database for all compounds and these limits were used for validation.

The following compound was detected in the method blank associated with batch 6L08005 prepared on 12/08/06:

Compound	Maximum Concentration	Action Level
4,4'DDT	0.467 ug/kg	2.34 ug/kg

An action level of 5X the maximum contaminant concentration was established to evaluate blank contamination for this compound.

The following compound was detected in the method blank 6L14027 prepared on 12/14/06:

Compound	Maximum Concentration	Action Level
4,4'DDT	0.300 ug/kg	1.50 ug/kg

An action level of 5X the maximum contaminant concentration was established to evaluate blank contamination for this compound.

The continuing calibration performed on 12/14/06 at 22:09 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor on both columns. No action was taken for this noncompliance because no results were reported for methoxychlor in the associated analysis sequence.

The continuing calibration performed on 12/15/06 at 02:55 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor and 4,4'DDT on both columns. No action was taken for this noncompliance because no results were reported for methoxychlor or 4,4'DDT in the associated analysis sequence.

The continuing calibration performed on 12/15/06 at 07:40 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for endosulfan sulfate on column 1 and on both columns for methoxychlor and 4,4'DDT. No action was taken for these noncompliances because the %D was only exceeded on one column for endosulfan sulfate and no results were reported for methoxychlor or 4,4'DDT in the associated analysis sequence.

The continuing calibration performed on 12/15/06 at 09:49 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion on both columns for methoxychlor and 4,4'DDT. No action was taken for this noncompliance because no results were reported for methoxychlor or 4,4'DDT in the associated analysis sequence.

The continuing calibration performed on 12/20/06 at 11:59 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for 4,4'DDT and endrin ketone on column 1 and on column 2. The result for 4,4'DDT in sample JAX47-SB111-05-112906 was affected by this noncompliance; however, no action was taken due to qualification of this sample for lab blank contamination. No action was taken for endrin ketone for this noncompliance in the associated samples.

The continuing calibration performed on 12/20/06 at 18:06 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion on both columns for methoxychlor and 4,4'DDT. No action was taken for 4,4'DDT for this noncompliance because no results were reported in the associated analysis sequence. However, the result for methoxychlor was qualified nondetect estimated (UJ) in sample JAX47-SB111-05-112906 for this noncompliance.

The continuing calibration performed on 1/10/07 at 13:14 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor, gamma-chlordane, alpha-chlordane, 4,4'DDE and endosulfan I on column 1 and on column 2. The result for methoxychlor in samples JAX47-SB093-01-112906, JAX47-SB108-01-112906 and JAX47-SB109-01-112906 were affected by this noncompliance and positive results qualified estimated (J). No action was taken for gamma-chlordane, alpha-chlordane, 4,4'DDE and endosulfan I because these compounds were not reported during this analysis sequence.

The surrogate recovery for tetrachloro-m-xylene (TCX) was low for samples JAX47-SB092-01-112906, JAX47-SB092-06-112906, JAX47-SB093-01-112906, JAX47-SB101-05-112906, JAX47-SB103-01-112906, JAX47-SB112-01-112906 and JAX47-SB112-05-112906. Positive results were qualified estimated (J) and nondetects were qualified estimated (UJ).

The calibration range performed on 1/10/07 at 00:29 on instrument JSVGCECD2 for 4,4'-DDT for sample JAX47-SB104-01-112906 was exceeded. The result was qualified estimated (J) for this noncompliance.

The dual column confirmation %D was greater than the 25% QC limit for at least one compound analyzed on 11 out of the 20 samples. The affected results were qualified as estimated (J) for this noncompliance. Compounds that were note confirmed by the second column were qualified nondetected and estimated (UJ).

The results for gamma-BHC, endosulfan sulfate and endosulfan I in sample JAX47-SB092-01-112906 were not confirmed on both columns and were qualified nondetected and estimated (UJ) for this noncompliance.

The result for gamma-BHC in sample JAX47-SB093-01-112906 was not confirmed on both columns and was qualified nondetected and estimated (UJ) for this noncompliance.

The result for gamma-chlordane in sample JAX47-SB093-06-112906 was not confirmed on both columns and was qualified nondetected and estimated (UJ) for this noncompliance.

The result for gamma-chlordane in sample JAX47-SB103-01-112906 was not confirmed on both columns and was qualified nondetected and estimated (UJ) for this noncompliance.

The result for gamma-chlordane in sample JAX47-SB104-05-112906 was not confirmed on both columns and was qualified nondetected and estimated (UJ) for this noncompliance.

The result for heptachlor epoxide in sample JAX47-SB109-06-112906 was not confirmed on both columns and was qualified nondetected and estimated (UJ) for this noncompliance.

The result for endosulfan sulfate in sample JAX47-SB111-01-112906 was not confirmed on both columns and was qualified nondetected and estimated (UJ) for this noncompliance.

TO: MARK PETERSON – PAGE 4
DATE: MARCH 6, 2007

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several calibration noncompliances were noted. Several dual column confirmation noncompliances were noted. Seven samples were qualified due to surrogate recovery noncompliances. MDLs were not summarized on sample Form Is.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and Department of Defense document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM for guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Preston R Smith
Environmental Scientist

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB092-01-112906	nsample	JAX47-SB092-06-112906	nsample	JAX47-SB093-01-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-01	lab_id	B610308-02	lab_id	B610308-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	99.2	Pct_Solids	96.2	Pct_Solids	98.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0016	J	PR
4,4'-DDE	0.07	J	R
4,4'-DDT	0.022	J	R
ALDRIN	0.0002	UJ	R
ALPHA-BHC	0.00013	UJ	R
ALPHA-CHLORDANE	0.0016	J	PRU
BETA-BHC	0.001	J	PRU
DELTA-BHC	0.00017	UJ	R
DIELDRIN	0.0013	J	PRU
ENDOSULFAN I	0.0004	UJ	QR
ENDOSULFAN II	0.0013	J	PRU
ENDOSULFAN SULFATE	0.00057	UJ	QR
ENDRIN	0.00037	UJ	R
ENDRIN ALDEHYDE	0.00017	UJ	R
ENDRIN KETONE	0.0003	UJ	R
GAMMA-BHC (LINDANE)	0.0002	UJ	QR
GAMMA-CHLORDANE	0.00023	UJ	R
HEPTACHLOR	0.00023	UJ	R
HEPTACHLOR EPOXIDE	0.00057	UJ	R
METHOXYCHLOR	0.0026	J	RU
TOXAPHENE	0.0017	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00031	UJ	R
4,4'-DDE	0.0016	J	PR
4,4'-DDT	0.0013	U	A
ALDRIN	0.00021	UJ	R
ALPHA-BHC	0.00014	UJ	R
ALPHA-CHLORDANE	0.00027	UJ	R
BETA-BHC	0.00076	J	RU
DELTA-BHC	0.00017	UJ	R
DIELDRIN	0.00024	UJ	R
ENDOSULFAN I	0.00027	UJ	R
ENDOSULFAN II	0.00024	UJ	R
ENDOSULFAN SULFATE	0.00027	UJ	R
ENDRIN	0.00038	UJ	R
ENDRIN ALDEHYDE	0.00017	UJ	R
ENDRIN KETONE	0.00031	UJ	R
GAMMA-BHC (LINDANE)	0.00017	UJ	R
GAMMA-CHLORDANE	0.00024	UJ	R
HEPTACHLOR	0.00024	UJ	R
HEPTACHLOR EPOXIDE	0.00058	UJ	R
METHOXYCHLOR	0.00034	UJ	R
TOXAPHENE	0.0017	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0096	J	R
4,4'-DDE	0.55	J	R
4,4'-DDT	0.36	J	R
ALDRIN	0.0002	UJ	R
ALPHA-BHC	0.00013	UJ	R
ALPHA-CHLORDANE	0.00027	U	R
BETA-BHC	0.0011	J	PRU
DELTA-BHC	0.00017	UJ	R
DIELDRIN	0.0011	J	P
ENDOSULFAN I	0.00027	U	R
ENDOSULFAN II	0.00024	U	R
ENDOSULFAN SULFATE	0.011	J	RU
ENDRIN	0.00037	U	R
ENDRIN ALDEHYDE	0.00017	U	R
ENDRIN KETONE	0.0003	U	R
GAMMA-BHC (LINDANE)	0.00037	UJ	QR
GAMMA-CHLORDANE	0.0011	J	PRU
HEPTACHLOR	0.00024	UJ	R
HEPTACHLOR EPOXIDE	0.0034	J	R
METHOXYCHLOR	0.0015	J	CPRU
TOXAPHENE	0.0017	U	R

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB093-06-112906	nsample	JAX47-SB101-01-112906	nsample	JAX47-SB101-05-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-04	lab_id	B610308-05	lab_id	B610308-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	84.7	Pct_Solids	71.6	Pct_Solids	83.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00035	U	
4,4'-DDE	0.00039	U	
4,4'-DDT	0.0014	U	A
ALDRIN	0.00023	U	
ALPHA-BHC	0.00016	U	
ALPHA-CHLORDANE	0.00031	U	
BETA-BHC	0.00039	U	
DELTA-BHC	0.00019	U	
DIELDRIN	0.00027	U	
ENDOSULFAN I	0.00031	U	
ENDOSULFAN II	0.00027	U	
ENDOSULFAN SULFATE	0.00031	U	
ENDRIN	0.00043	U	
ENDRIN ALDEHYDE	0.00019	U	
ENDRIN KETONE	0.00035	U	
GAMMA-BHC (LINDANE)	0.00019	U	
GAMMA-CHLORDANE	0.00028	UJ	Q
HEPTACHLOR	0.00027	U	
HEPTACHLOR EPOXIDE	0.00066	U	
METHOXYCHLOR	0.00039	U	
TOXAPHENE	0.0019	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0011	J	P
4,4'-DDE	0.018		
4,4'-DDT	0.013		
ALDRIN	0.00028	U	
ALPHA-BHC	0.00018	U	
ALPHA-CHLORDANE	0.0017	J	P
BETA-BHC	0.00046	U	
DELTA-BHC	0.00023	U	
DIELDRIN	0.00032	U	
ENDOSULFAN I	0.00037	U	
ENDOSULFAN II	0.00032	U	
ENDOSULFAN SULFATE	0.00037	U	
ENDRIN	0.00051	U	
ENDRIN ALDEHYDE	0.00023	U	
ENDRIN KETONE	0.00041	U	
GAMMA-BHC (LINDANE)	0.00023	U	
GAMMA-CHLORDANE	0.00042	J	P
HEPTACHLOR	0.00032	U	
HEPTACHLOR EPOXIDE	0.00078	U	
METHOXYCHLOR	0.00046	U	
TOXAPHENE	0.0023	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0022	J	R
4,4'-DDE	0.0004	UJ	R
4,4'-DDT	0.073	J	R
ALDRIN	0.00024	UJ	R
ALPHA-BHC	0.00016	UJ	R
ALPHA-CHLORDANE	0.00032	J	PR
BETA-BHC	0.0004	UJ	R
DELTA-BHC	0.0002	UJ	R
DIELDRIN	0.00028	UJ	R
ENDOSULFAN I	0.00032	UJ	R
ENDOSULFAN II	0.00028	UJ	R
ENDOSULFAN SULFATE	0.00032	UJ	R
ENDRIN	0.00043	UJ	R
ENDRIN ALDEHYDE	0.0002	UJ	R
ENDRIN KETONE	0.00036	UJ	R
GAMMA-BHC (LINDANE)	0.0002	UJ	R
GAMMA-CHLORDANE	0.00036	J	PR
HEPTACHLOR	0.00028	UJ	R
HEPTACHLOR EPOXIDE	0.00067	UJ	R
METHOXYCHLOR	0.0004	UJ	R
TOXAPHENE	0.002	UJ	R

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB102-01-112906	nsample	JAX47-SB102-05-112906	nsample	JAX47-SB103-01-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-07	lab_id	B610308-08	lab_id	B610308-09
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	97.5	Pct_Solids	97.3	Pct_Solids	91.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0032		
4,4'-DDE	0.066		
4,4'-DDT	0.18		
ALDRIN	0.0002	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.00027	U	
BETA-BHC	0.00034	U	
DELTA-BHC	0.00017	U	
DIELDRIN	0.00024	U	
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00027	U	
ENDRIN	0.00037	U	
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.0003	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.00034	J	PU
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.00058	U	
METHOXYCHLOR	0.00034	U	
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00031	U	
4,4'-DDE	0.00034	U	
4,4'-DDT	0.0029		
ALDRIN	0.0002	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.00027	U	
BETA-BHC	0.00034	U	
DELTA-BHC	0.00017	U	
DIELDRIN	0.00024	U	
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00027	U	
ENDRIN	0.00037	U	
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.00024	U	
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.00058	U	
METHOXYCHLOR	0.00034	U	
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00033	UJ	R
4,4'-DDE	0.00036	UJ	R
4,4'-DDT	0.00048	U	A
ALDRIN	0.00022	UJ	R
ALPHA-BHC	0.00015	UJ	R
ALPHA-CHLORDANE	0.00029	UJ	R
BETA-BHC	0.00036	UJ	R
DELTA-BHC	0.00018	UJ	R
DIELDRIN	0.00025	UJ	R
ENDOSULFAN I	0.00029	UJ	R
ENDOSULFAN II	0.00025	UJ	R
ENDOSULFAN SULFATE	0.00029	UJ	R
ENDRIN	0.0004	UJ	R
ENDRIN ALDEHYDE	0.00018	UJ	R
ENDRIN KETONE	0.00033	UJ	R
GAMMA-BHC (LINDANE)	0.00018	UJ	R
GAMMA-CHLORDANE	0.00033	UJ	QR
HEPTACHLOR	0.00025	UJ	R
HEPTACHLOR EPOXIDE	0.00062	UJ	R
METHOXYCHLOR	0.00036	UJ	R
TOXAPHENE	0.0018	UJ	R

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB103-05-112906	nsample	JAX47-SB104-01-112906	nsample	JAX47-SB104-05-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-10	lab_id	B610308-11	lab_id	B610308-12
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	74.1	Pct_Solids	89.8	Pct_Solids	89.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.0018	J	P
4,4'-DDT	0.0027		
ALDRIN	0.00027	U	
ALPHA-BHC	0.00018	U	
ALPHA-CHLORDANE	0.00085	J	P
BETA-BHC	0.00045	U	
DELTA-BHC	0.00022	U	
DIELDRIN	0.00031	U	
ENDOSULFAN I	0.00036	U	
ENDOSULFAN II	0.00031	U	
ENDOSULFAN SULFATE	0.00036	U	
ENDRIN	0.00049	U	
ENDRIN ALDEHYDE	0.00022	U	
ENDRIN KETONE	0.0004	U	
GAMMA-BHC (LINDANE)	0.00022	U	
GAMMA-CHLORDANE	0.00085	J	P
HEPTACHLOR	0.00031	U	
HEPTACHLOR EPOXIDE	0.00076	U	
METHOXYCHLOR	0.00045	U	
TOXAPHENE	0.0022	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0025		
4,4'-DDE	0.013		
4,4'-DDT	0.084	J	L
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.00033	J	P
BETA-BHC	0.00037	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.00026	U	
ENDOSULFAN I	0.00029	U	
ENDOSULFAN II	0.00026	U	
ENDOSULFAN SULFATE	0.00029	U	
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00018	U	
ENDRIN KETONE	0.00033	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.00045	J	P
HEPTACHLOR	0.00026	U	
HEPTACHLOR EPOXIDE	0.00062	U	
METHOXYCHLOR	0.00037	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00033	U	
4,4'-DDE	0.00037	U	
4,4'-DDT	0.00022	U	A
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.0003	U	
BETA-BHC	0.00037	U	
DELTA-BHC	0.00019	U	
DIELDRIN	0.00026	U	
ENDOSULFAN I	0.0003	U	
ENDOSULFAN II	0.00026	U	
ENDOSULFAN SULFATE	0.0003	U	
ENDRIN	0.00041	U	
ENDRIN ALDEHYDE	0.00019	U	
ENDRIN KETONE	0.00033	U	
GAMMA-BHC (LINDANE)	0.00019	U	
GAMMA-CHLORDANE	0.0003	UJ	Q
HEPTACHLOR	0.00026	U	
HEPTACHLOR EPOXIDE	0.00063	U	
METHOXYCHLOR	0.00037	U	
TOXAPHENE	0.0019	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB108-01-112906	nsample	JAX47-SB108-06-112906	nsample	JAX47-SB109-01-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-13RE1	lab_id	B610308-14RE1	lab_id	B610308-15RE1
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	97.3	Pct_Solids	93.2	Pct_Solids	96.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.28		
4,4'-DDE	0.29		
4,4'-DDT	0.65		
ALDRIN	0.0002	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.056		
BETA-BHC	0.00069	J	P
DELTA-BHC	0.00017	U	
DIELDRIN	0.029		
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.003	J	U
ENDRIN	0.0011	J	PU
ENDRIN ALDEHYDE	0.0037	J	U
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.074		
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.018	J	U
METHOXYCHLOR	0.00069	J	CPU
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.12		
4,4'-DDE	0.026		
4,4'-DDT	0.037		
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.094		
BETA-BHC	0.00035	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.04		
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00097	J	PU
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.012	J	U
ENDRIN ALDEHYDE	0.00018	U	
ENDRIN KETONE	0.00032	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.1		
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.0006	U	
METHOXYCHLOR	0.00035	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.11	J	U
4,4'-DDE	0.44		
4,4'-DDT	4.2		
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.098		
BETA-BHC	0.0008	J	PU
DELTA-BHC	0.00017	U	
DIELDRIN	0.04		
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.0034	J	U
ENDRIN	0.0018	J	PU
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.00035	J	PU
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.082		
HEPTACHLOR	0.00024	J	P
HEPTACHLOR EPOXIDE	0.019	J	U
TOXAPHENE	0.0017	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB109-01-112906-RE3	nsample	JAX47-SB109-06-112906	nsample	JAX47-SB111-01-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-15RE3	lab_id	B610308-16	lab_id	B610308-17
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.1	Pct_Solids	90.3	Pct_Solids	96.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHOXYCHLOR	0.00055	J	CPU

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0039	J	U
4,4'-DDE	0.011		
4,4'-DDT	0.028		
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.012		
BETA-BHC	0.00037	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.003		
ENDOSULFAN I	0.00029	U	
ENDOSULFAN II	0.00026	U	
ENDOSULFAN SULFATE	0.00029	U	
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00018	U	
ENDRIN KETONE	0.00033	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.011		
HEPTACHLOR	0.00026	U	
HEPTACHLOR EPOXIDE	0.00085	UJ	Q
METHOXYCHLOR	0.00037	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0036		
4,4'-DDE	0.098		
4,4'-DDT	0.034		
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.001	J	PU
BETA-BHC	0.00034	U	
DELTA-BHC	0.00017	U	
DIELDRIN	0.0016	J	P
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.0009	UJ	Q
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00024	J	PU
ENDRIN KETONE	0.00031	J	PU
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.0031		
HEPTACHLOR	0.00024	J	P
HEPTACHLOR EPOXIDE	0.0036		
METHOXYCHLOR	0.0012	J	PU
TOXAPHENE	0.0017	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB111-05-112906	nsample	JAX47-SB112-01-112906	nsample	JAX47-SB112-05-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-18RE1	lab_id	B610308-19	lab_id	B610308-20
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	72.9	Pct_Solids	74.2	Pct_Solids	74.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00041	U	
4,4'-DDE	0.00045	U	
4,4'-DDT	0.0005	U	A
ALDRIN	0.00027	U	
ALPHA-BHC	0.00018	U	
ALPHA-CHLORDANE	0.00036	U	
BETA-BHC	0.00045	U	
DELTA-BHC	0.00023	U	
DIELDRIN	0.00032	U	
ENDOSULFAN I	0.00036	U	
ENDOSULFAN II	0.00032	U	
ENDOSULFAN SULFATE	0.00036	U	
ENDRIN	0.0005	U	
ENDRIN ALDEHYDE	0.00023	U	
ENDRIN KETONE	0.00041	U	
GAMMA-BHC (LINDANE)	0.00023	U	
GAMMA-CHLORDANE	0.00032	U	
HEPTACHLOR	0.00032	U	
HEPTACHLOR EPOXIDE	0.00077	U	
METHOXYCHLOR	0.00045	UJ	C
TOXAPHENE	0.0023	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0013	J	PR
4,4'-DDE	0.026	J	R
4,4'-DDT	0.0093	J	R
ALDRIN	0.00027	UJ	R
ALPHA-BHC	0.00018	UJ	R
ALPHA-CHLORDANE	0.00036	UJ	R
BETA-BHC	0.00044	UJ	R
DELTA-BHC	0.00022	UJ	R
DIELDRIN	0.00031	UJ	R
ENDOSULFAN I	0.00036	UJ	R
ENDOSULFAN II	0.00031	UJ	R
ENDOSULFAN SULFATE	0.00036	UJ	R
ENDRIN	0.00049	UJ	R
ENDRIN ALDEHYDE	0.00022	UJ	R
ENDRIN KETONE	0.0004	UJ	R
GAMMA-BHC (LINDANE)	0.00022	UJ	R
GAMMA-CHLORDANE	0.00054	J	PR
HEPTACHLOR	0.00031	UJ	R
HEPTACHLOR EPOXIDE	0.00076	UJ	R
METHOXYCHLOR	0.00044	UJ	R
TOXAPHENE	0.0022	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	UJ	R
4,4'-DDE	0.0021	J	PR
4,4'-DDT	0.0022	U	A
ALDRIN	0.00027	UJ	R
ALPHA-BHC	0.00018	UJ	R
ALPHA-CHLORDANE	0.00049	J	PR
BETA-BHC	0.00044	UJ	R
DELTA-BHC	0.00022	UJ	R
DIELDRIN	0.00031	UJ	R
ENDOSULFAN I	0.00036	UJ	R
ENDOSULFAN II	0.00031	UJ	R
ENDOSULFAN SULFATE	0.00036	UJ	R
ENDRIN	0.00049	UJ	R
ENDRIN ALDEHYDE	0.00022	UJ	R
ENDRIN KETONE	0.0004	UJ	R
GAMMA-BHC (LINDANE)	0.00022	UJ	R
GAMMA-CHLORDANE	0.00058	J	PR
HEPTACHLOR	0.00031	UJ	R
HEPTACHLOR EPOXIDE	0.00076	UJ	R
METHOXYCHLOR	0.00044	UJ	R
TOXAPHENE	0.0022	UJ	R

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB092-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-01RE1	File ID:	9LPA006-0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 15:17
Solids:	99.17	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4'-DDE	10	0.070	J D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB092-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-01RE2	File ID:	9ADA022-0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 03:29
Solids:	99.17	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.022	
72-43-5	Methoxychlor	1	0.0026	P

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB092-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-01	File ID:	9LIA018-0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 00:19
Solids:	99.17	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.00020	J
319-85-7	beta-BHC	1	0.0010	JP
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
959-98-8	Endosulfan I	1	0.00040	J
60-57-1	Dieldrin	1	0.0013	JP
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0016	J
33213-65-9	Endosulfan II	1	0.0013	JP
7421-93-4	Endrin aldehyde	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.00057	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.033	U
NA	Chlordane-gamma	1	0.00054	J
NA	Chlordane-alpha	1	0.00030	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0336	0.0229	68	70 - 125	*
DBC	0.0336	0.0264	79	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB092-06-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610308-02 | File ID: 9LIA019-0

Sampled: 11/29/06 09:36 | Prepared: 12/08/06 09:22 | Analyzed: 12/15/06 00:45

Solids: 96.17 | Preparation: EPA 3545 | Initial/Final: 15 g / 5 mL

Batch: 6L08005 | Sequence: BA00092 | Calibration: 0612008 | Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U UJ for R
58-89-9	gamma-BHC	1	0.0017	U UJ for R
319-85-7	beta-BHC	1	0.00076	JP J for UR
319-86-8	delta-BHC	1	0.0017	U UJ for R
76-44-8	Heptachlor	1	0.0017	U UJ for R
309-00-2	Aldrin	1	0.0017	U UJ for R
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.0017	U
NA	Chlordane-alpha	1	0.0017	U
72-55-9	4,4'-DDE	1	0.0016	J ✓ for P
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	U
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0017	U
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0347	0.0229	66	70 - 125	*
DBC	0.0347	0.0236	68	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB092-06-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-02RE1	File ID:	9ADA006-0
Sampled:	11/29/06 09:36	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 20:36
Solids:	96.17	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-43-5	Methoxychlor	1	0.0017	U
50-29-3	4,4'-DDT	1	0.0015	J

or P

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB093-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610308-03 | File ID: 9LIA020-0

Sampled: 11/29/06 09:12 | Prepared: 12/08/06 09:22 | Analyzed: 12/15/06 01:11

Solids: 98.29 | Preparation: EPA 3545 | Initial/Final: 15 g / 5 mL

Batch: 6L08005 | Sequence: BA00092 | Calibration: 0612008 | Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U UJ for R
58-89-9	gamma-BHC	1	0.00037	J UJ for UR
319-85-7	beta-BHC	1	0.0011	JP J for UR
319-86-8	delta-BHC	1	0.0017	U UJ for R
76-44-8	Heptachlor	1	0.0017	U UJ for R
309-00-2	Aldrin	1	0.0017	U UJ for R
NA	Chlordane-gamma	1	0.0011	JP J for U
NA	Chlordane-alpha	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0011	J for P
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0096	J
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.034	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.00044	JP R for U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0339	0.0221	65	70 - 125	*
DBC	0.0339	0.0408	120	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB093-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-03RE1	File ID:	9LPA008-0
Sampled:	11/29/06 09:12	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 16:09
Solids:	98.29	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4'-DDE	10	0.55	J D
50-29-3	4,4'-DDT	10	0.36	J D

<5% Hule

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB093-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-03RE2	File ID:	9AEA004-0
Sampled:	11/29/06 09:12	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 13:39
Solids:	98.29	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-43-5	Methoxychlor	1	0.0015	JP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB093-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-04	File ID:	9LIA021-0
Sampled:	11/29/06 09:21	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 01:37
Solids:	84.67	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0020	U
58-89-9	gamma-BHC	1	0.0020	U
319-85-7	beta-BHC	1	0.0020	U
319-86-8	delta-BHC	1	0.0020	U
76-44-8	Heptachlor	1	0.0020	U
309-00-2	Aldrin	1	0.0020	U
1024-57-3	Heptachlor epoxide	1	0.0020	U
NA	Chlordane-gamma	1	0.00028	(J) UJ for 4
NA	Chlordane-alpha	1	0.0020	U
72-55-9	4,4'-DDE	1	0.0020	U
959-98-8	Endosulfan I	1	0.0020	U
60-57-1	Dieldrin	1	0.0020	U
72-20-8	Endrin	1	0.0020	U
72-54-8	4,4'-DDD	1	0.0020	U
33213-65-9	Endosulfan II	1	0.0020	U
7421-93-4	Endrin aldehyde	1	0.0020	U
1031-07-8	Endosulfan sulfate	1	0.0020	U
53494-70-5	Endrin ketone	1	0.0020	U
8001-35-2	Toxaphene	1	0.039	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0394	0.0276	70	70 - 125	
DBC	0.0394	0.0281	71	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB093-06-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-04RE1	File ID:	9ADA007-0
Sampled:	11/29/06 09:21	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:02
Solids:	84.67	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.0014	J
72-43-5	Methoxychlor	1	0.0020	U

J for P

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB101-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-05RE1	File ID:	9ADA018-0
Sampled:	11/29/06 14:24	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 01:46
Solids:	71.64	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.013	
72-43-5	Methoxychlor	1	0.0023	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB101-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-05	File ID:	9LIA022-0
Sampled:	11/29/06 14:24	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 02:03
Solids:	71.64	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0023	U	
58-89-9	gamma-BHC	1	0.0023	U	
319-85-7	beta-BHC	1	0.0023	U	
319-86-8	delta-BHC	1	0.0023	U	
76-44-8	Heptachlor	1	0.0023	U	
309-00-2	Aldrin	1	0.0023	U	
NA	Chlordane-gamma	1	0.00042	(J)	for P
72-55-9	4,4'-DDE	1	0.018		
959-98-8	Endosulfan I	1	0.0023	U	
60-57-1	Dieldrin	1	0.0023	U	
72-20-8	Endrin	1	0.0023	U	
72-54-8	4,4'-DDD	1	0.0011	(J)	for P
33213-65-9	Endosulfan II	1	0.0023	U	
7421-93-4	Endrin aldehyde	1	0.0023	U	
1031-07-8	Endosulfan sulfate	1	0.0023	U	
53494-70-5	Endrin ketone	1	0.0023	U	
8001-35-2	Toxaphene	1	0.046	U	
1024-57-3	Heptachlor epoxide	1	0.0023	U	
NA	Chlordane-alpha	1	0.0023	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0465	0.0351	75	70 - 125	
DBC	0.0465	0.0364	78	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB101-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-06	File ID:	9LIA023-0
Sampled:	11/29/06 14:35	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 02:29
Solids:	83.46	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0020	U UJ	for RL
58-89-9	gamma-BHC	1	0.0020	U UJ	for RL
319-85-7	beta-BHC	1	0.0020	U UJ	for RL
319-86-8	delta-BHC	1	0.0020	U UJ	for RL
76-44-8	Heptachlor	1	0.0020	U UJ	for RL
309-00-2	Aldrin	1	0.0020	U UJ	for RL
1024-57-3	Heptachlor epoxide	1	0.0020	U	
NA	Chlordane-gamma	1	0.00036	J	for P
NA	Chlordane-alpha	1	0.00032	J	for P
72-55-9	4,4'-DDE	1	0.0020	U	
959-98-8	Endosulfan I	1	0.0020	U	
60-57-1	Dieldrin	1	0.0020	U	
72-20-8	Endrin	1	0.0020	U	
72-54-8	4,4'-DDD	1	0.0022	J	
33213-65-9	Endosulfan II	1	0.0020	U	
7421-93-4	Endrin aldehyde	1	0.0020	U	
1031-07-8	Endosulfan sulfate	1	0.0020	U	
53494-70-5	Endrin ketone	1	0.0020	U	
8001-35-2	Toxaphene	1	0.040	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0399	0.0266	67	70 - 125	*
DBC	0.0399	0.0267	67	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB101-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-06RE1	File ID:	9ADA008-0
Sampled:	11/29/06 14:35	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:28
Solids:	83.46	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.073	
72-43-5	Methoxychlor	1	0.0020	U

CS%
blue

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB102-01-112906

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610308-07 File ID: 9LIA025-0

Sampled: 11/29/06 14:49 Prepared: 12/08/06 09:22 Analyzed: 12/15/06 03:21

Solids: 97.48 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L08005 Sequence: BA00092 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.00034	JP
NA	Chlordane-alpha	1	0.0017	U
72-55-9	4,4'-DDE	1	0.066	
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	U
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0032	
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0342	0.0259	76	70 - 125	
DBC	0.0342	0.0280	82	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB102-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-07RE1	File ID:	9LPA005-0
Sampled:	11/29/06 14:49	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 14:52
Solids:	97.48	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	10	0.18	J D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB102-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-07RE2	File ID:	9ADA019-0
Sampled:	11/29/06 14:49	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 02:12
Solids:	97.48	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-43-5	Methoxychlor	1	0.0017	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB102-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-08	File ID:	9LIA026-0
Sampled:	11/29/06 15:03	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 03:47
Solids:	97.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.0017	U
NA	Chlordane-alpha	1	0.0017	U
72-55-9	4,4′-DDE	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	U
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4′-DDD	1	0.0017	U
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0343	0.0245	72	70 - 125	
DBC	0.0343	0.0249	73	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB102-05-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-08RE1	File ID:	9ADA009-0
Sampled:	11/29/06 15:03	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:54
Solids:	97.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.0029	J for A
72-43-5	Methoxychlor	1	0.0017	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB103-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-09	File ID:	9LIA027-0
Sampled:	11/29/06 10:35	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 04:13
Solids:	91.03	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U UJ for R
58-89-9	gamma-BHC	1	0.0018	U UJ for R
319-85-7	beta-BHC	1	0.0018	U UJ for R
319-86-8	delta-BHC	1	0.0018	U UJ for R
76-44-8	Heptachlor	1	0.0018	U UJ for R
309-00-2	Aldrin	1	0.0018	U UJ for R
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.00033	(J) UJ for U
NA	Chlordane-alpha	1	0.0018	U
72-55-9	4,4'-DDE	1	0.0018	U
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.036	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0366	0.0244	67	70 - 125	*
DBC	0.0366	0.0253	69	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB103-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-09RE1	File ID:	9ADA013-0
Sampled:	11/29/06 10:35	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 23:37
Solids:	91.03	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-43-5	Methoxychlor	1	0.0018	U
50-29-3	4,4'-DDT	1	0.00059	J

for A

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB103-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-10	File ID:	9LIA028-0
Sampled:	11/29/06 11:00	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 04:39
Solids:	74.11	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0022	U	
58-89-9	gamma-BHC	1	0.0022	U	
319-85-7	beta-BHC	1	0.0022	U	
319-86-8	delta-BHC	1	0.0022	U	
76-44-8	Heptachlor	1	0.0022	U	
309-00-2	Aldrin	1	0.0022	U	
1024-57-3	Heptachlor epoxide	1	0.0022	U	
NA	Chlordane-gamma	1	0.00085	J	for P
NA	Chlordane-alpha	1	0.00085	J	for P
72-55-9	4,4'-DDE	1	0.0018	J	for D
959-98-8	Endosulfan I	1	0.0022	U	
60-57-1	Dieldrin	1	0.0022	U	
72-20-8	Endrin	1	0.0022	U	
72-54-8	4,4'-DDD	1	0.0022	U	
33213-65-9	Endosulfan II	1	0.0022	U	
7421-93-4	Endrin aldehyde	1	0.0022	U	
1031-07-8	Endosulfan sulfate	1	0.0022	U	
53494-70-5	Endrin ketone	1	0.0022	U	
8001-35-2	Toxaphene	1	0.045	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0450	0.0335	75	70 - 125	
DBC	0.0450	0.0327	73	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB103-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-10RE1	File ID:	9ADA010-0
Sampled:	11/29/06 11:00	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 22:19
Solids:	74.11	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.0027	J
72-43-5	Methoxychlor	1	0.0022	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB104-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-11RE1	File ID:	9ADA015-0
Sampled:	11/29/06 10:03	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 00:29
Solids:	89.81	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.084	(E) J for L
72-43-5	Methoxychlor	1	0.0018	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB104-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-11	File ID:	9LIA029-0
Sampled:	11/29/06 10:03	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:05
Solids:	89.81	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.00045	J
NA	Chlordane-alpha	1	0.00033	J
72-55-9	4,4'-DDE	1	0.013	
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0025	
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.037	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0371	0.0269	72	70 - 125	
DBC	0.0371	0.0281	76	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB104-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-12	File ID:	9LIA030-0
Sampled:	11/29/06 10:14	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:31
Solids:	89.07	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0019	U
58-89-9	gamma-BHC	1	0.0019	U
319-85-7	beta-BHC	1	0.0019	U
319-86-8	delta-BHC	1	0.0019	U
76-44-8	Heptachlor	1	0.0019	U
309-00-2	Aldrin	1	0.0019	U
1024-57-3	Heptachlor epoxide	1	0.0019	U
NA	Chlordane-gamma	1	0.00030	(J) 3 for 4
NA	Chlordane-alpha	1	0.0019	U
72-55-9	4,4′-DDE	1	0.0019	U
959-98-8	Endosulfan I	1	0.0019	U
60-57-1	Dieldrin	1	0.0019	U
72-20-8	Endrin	1	0.0019	U
72-54-8	4,4′-DDD	1	0.0019	U
33213-65-9	Endosulfan II	1	0.0019	U
7421-93-4	Endrin aldehyde	1	0.0019	U
1031-07-8	Endosulfan sulfate	1	0.0019	U
53494-70-5	Endrin ketone	1	0.0019	U
8001-35-2	Toxaphene	1	0.037	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0374	0.0285	76	70 - 125	
DBC	0.0374	0.0286	76	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB104-05-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-12RE1	File ID:	9ADA011-0
Sampled:	11/29/06 10:14	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 22:45
Solids:	89.07	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.00022	J
72-43-5	Methoxychlor	1	0.0019	U

hr AP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB108-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-13	File ID:	9LJA031-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:56
Solids:	97.32	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
NA	Chlordane-alpha	1	0.056	
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.029	
72-20-8	Endrin	1	0.0011	JP
33213-65-9	Endosulfan II	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.034	U
319-85-7	beta-BHC	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.00062	JP
7421-93-4	Endrin aldehyde	1	0.0023	JP
1031-07-8	Endosulfan sulfate	1	0.00045	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0343	0.0243	71	70 - 125	
DBC	0.0343	0.0305	89	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB108-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-13RE1	File ID:	9LPA010-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 17:01
Solids:	97.32	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	10	0.074	D
72-55-9	4,4'-DDE	10	0.29	D
72-54-8	4,4'-DDD	10	0.28	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB108-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-13RE2	File ID:	9LQA008-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/22/06 14:15
Solids:	97.32	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	100	0.65	D

<5% blk

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB108-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-13RE3	File ID:	9AEA005-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 14:05
Solids:	97.32	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-43-5	Methoxychlor	1	0.00069	JP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB108-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-14	File ID:	9LIA032-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 06:22
Solids:	93.18	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
72-55-9	4,4'-DDE	1	0.026	J
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.040	J
72-20-8	Endrin	1	0.012	JP
33213-65-9	Endosulfan II	1	0.00097	JP
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0358	0.0250	70	70 - 125	
DBC	0.0358	0.0245	69	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB108-06-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-14RE1	File ID:	9LPA004-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 14:26
Solids:	93.18	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
NA	Chlordane-gamma	10	0.10	J	D
NA	Chlordane-alpha	10	0.094	J	D
72-54-8	4,4'-DDD	10	0.12	J	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB108-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-14RE2	File ID:	9ADA016-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 00:54
Solids:	93.18	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.037	
72-43-5	Methoxychlor	1	0.0018	U

LCS/LCSD

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB109-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-15RE1	File ID:	9LPA009-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 16:35
Solids:	96.15	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	10	0.082	D
NA	Chlordane-alpha	10	0.098	D
72-55-9	4,4′-DDE	10	0.44	D
72-54-8	4,4′-DDD	10	0.11	D J for U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB109-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-15RE2	File ID:	9LPA012-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 17:53
Solids:	96.15	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	100	4.2	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB109-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610308-15 | File ID: 9LIA033-0

Sampled: 11/29/06 09:19 | Prepared: 12/08/06 09:22 | Analyzed: 12/15/06 06:48

Solids: 96.15 | Preparation: EPA 3545 | Initial/Final: 15 g / 5 mL

Batch: 6L08005 | Sequence: BA00092 | Calibration: 0612008 | Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.00080	JP J for U
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.00024	J J for P
309-00-2	Aldrin	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.040	✓
72-20-8	Endrin	1	0.0018	P R for U
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.0020	P J for U
53494-70-5	Endrin ketone	1	0.00035	JP R for U
8001-35-2	Toxaphene	1	0.034	U
1024-57-3	Heptachlor epoxide	1	0.012	P J for U
1031-07-8	Endosulfan sulfate	1	0.00094	JP R for U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0347	0.0252	73	70 - 125	
DBC	0.0347	0.0330	95	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB109-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-15RE3	File ID:	9AEA006-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 14:31
Solids:	96.15	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-43-5	Methoxychlor	1	0.00055	JP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB109-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-16	File ID:	9LIA034-0
Sampled:	11/29/06 09:45	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 07:14
Solids:	90.28	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.00085	J for U
NA	Chlordane-gamma	1	0.011	✓
NA	Chlordane-alpha	1	0.012	✓
72-55-9	4,4'-DDE	1	0.011	✓
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0030	✓
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0039	J for U
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.037	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0369	0.0292	79	70 - 125	
DBC	0.0369	0.0291	79	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB109-06-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-16RE1	File ID:	9ADA017-0
Sampled:	11/29/06 09:45	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 01:20
Solids:	90.28	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.028	
72-43-5	Methoxychlor	1	0.0018	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB111-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-17	File ID:	9LIA036-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 08:06
Solids:	96.05	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.00024	J J for P
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0036	✓
NA	Chlordane-gamma	1	0.0031	✓
NA	Chlordane-alpha	1	0.0010	JP J for U
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0016	✓ J J for P
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0036	✓
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.00024	JP J for U
1031-07-8	Endosulfan sulfate	1	0.00090	J U for U
53494-70-5	Endrin ketone	1	0.00031	JP J for U
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0347	0.0257	74	70 - 125	
DBC	0.0347	0.0285	82	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB111-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-17RE1	File ID:	9LPA007-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 15:44
Solids:	96.05	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4'-DDE	10	0.098	J D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB111-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-17RE2	File ID:	9ADA024-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 04:21
Solids:	96.05	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.034	
72-43-5	Methoxychlor	1	0.0012	JP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB111-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-18RE1	File ID:	9LOA009-0
Sampled:	11/29/06 13:20	Prepared:	12/08/06 09:22	Analyzed:	12/20/06 14:39
Solids:	72.89	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0023	U
58-89-9	gamma-BHC	1	0.0023	U
319-85-7	beta-BHC	1	0.0023	U
319-86-8	delta-BHC	1	0.0023	U
76-44-8	Heptachlor	1	0.0023	U
309-00-2	Aldrin	1	0.0023	U
1024-57-3	Heptachlor epoxide	1	0.0023	U
NA	Chlordane-gamma	1	0.0023	U
NA	Chlordane-alpha	1	0.0023	U
72-55-9	4,4'-DDE	1	0.0023	U
959-98-8	Endosulfan I	1	0.0023	U
60-57-1	Dieldrin	1	0.0023	U
72-20-8	Endrin	1	0.0023	U
72-54-8	4,4'-DDD	1	0.0023	U
33213-65-9	Endosulfan II	1	0.0023	U
50-29-3	4,4'-DDT	1	0.00050	(J)
7421-93-4	Endrin aldehyde	1	0.0023	U
72-43-5	Methoxychlor	1	0.0023	U
1031-07-8	Endosulfan sulfate	1	0.0023	U
53494-70-5	Endrin ketone	1	0.0023	U
8001-35-2	Toxaphene	1	0.045	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0457	0.0375	82	70 - 125	
DBC	0.0457	0.0395	86	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB112-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-19	File ID:	9LIA038-0
Sampled:	11/29/06 12:52	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 08:58
Solids:	74.20	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0022	UJ for R
58-89-9	gamma-BHC	1	0.0022	U UJ for R
319-85-7	beta-BHC	1	0.0022	U UJ for R
319-86-8	delta-BHC	1	0.0022	U UJ for R
76-44-8	Heptachlor	1	0.0022	U UJ for R
309-00-2	Aldrin	1	0.0022	U UJ for R
1024-57-3	Heptachlor epoxide	1	0.0022	U
NA	Chlordane-gamma	1	0.00054	(J) J for P
NA	Chlordane-alpha	1	0.0022	U
72-55-9	4,4'-DDE	1	0.026	J
959-98-8	Endosulfan I	1	0.0022	U
60-57-1	Dieldrin	1	0.0022	U
72-20-8	Endrin	1	0.0022	U
72-54-8	4,4'-DDD	1	0.0013	(J) J for P
33213-65-9	Endosulfan II	1	0.0022	U
7421-93-4	Endrin aldehyde	1	0.0022	U
1031-07-8	Endosulfan sulfate	1	0.0022	U
53494-70-5	Endrin ketone	1	0.0022	U
8001-35-2	Toxaphene	1	0.044	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0449	0.0222	49	70 - 125	*
DBC	0.0449	0.0263	59	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB112-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-19RE1	File ID:	9ADA023-0
Sampled:	11/29/06 12:52	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 03:55
Solids:	74.20	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.0093	
72-43-5	Methoxychlor	1	0.0022	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB112-05-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-20RE1	File ID:	9ADA012-0
Sampled:	11/29/06 13:00	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 23:11
Solids:	74.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00161	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.0022	J
72-43-5	Methoxychlor	1	0.0022	U

for AP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB112-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-20	File ID:	9LIA039-0
Sampled:	11/29/06 13:00	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 09:23
Solids:	74.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.0022	U	
58-89-9	gamma-BHC	1	0.0022	U	
319-85-7	beta-BHC	1	0.0022	U	
319-86-8	delta-BHC	1	0.0022	U	
76-44-8	Heptachlor	1	0.0022	U	
309-00-2	Aldrin	1	0.0022	U	
1024-57-3	Heptachlor epoxide	1	0.0022	U	
NA	Chlordane-gamma	1	0.00058	J	for P
NA	Chlordane-alpha	1	0.00049	J	for P
72-55-9	4,4'-DDE	1	0.0021	J	for P
959-98-8	Endosulfan I	1	0.0022	U	
60-57-1	Dieldrin	1	0.0022	U	
72-20-8	Endrin	1	0.0022	U	
72-54-8	4,4'-DDD	1	0.0022	U	
33213-65-9	Endosulfan II	1	0.0022	U	
7421-93-4	Endrin aldehyde	1	0.0022	U	
1031-07-8	Endosulfan sulfate	1	0.0022	U	
53494-70-5	Endrin ketone	1	0.0022	U	
8001-35-2	Toxaphene	1	0.044	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0449	0.0271	60	70 - 125	*
DBC	0.0449	0.0293	65	55 - 130	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-007

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB109-01-112906	B610308-15	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB092-01-112906	B610308-01	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB112-05-112906	B610308-20	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB112-01-112906	B610308-19	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB111-05-112906	B610308-18	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB109-06-112906	B610308-16	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB108-06-112906	B610308-14	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB108-01-112906	B610308-13	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB104-05-112906	B610308-12	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB104-01-112906	B610308-11RE1	NM	11/29/2006	12/15/2006	12/22/2006	16	7	23
M	MG/KG	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB111-01-112906	B610308-17	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB092-06-112906	B610308-02	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB103-05-112906	B610308-10	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB093-06-112906	B610308-04	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB101-01-112906	B610308-05	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB101-05-112906	B610308-06	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB102-01-112906	B610308-07	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB102-05-112906	B610308-08	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
M	MG/KG	JAX47-SB103-01-112906	B610308-09	NM	11/29/2006	12/15/2006	12/21/2006	16	6	22
OS	%	JAX47-SB104-05-112906	B610308-12	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB092-06-112906	B610308-02	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB112-01-112906	B610308-19	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB111-05-112906	B610308-18RE1	NM	11/29/2006	12/8/2006	12/20/2006	9	12	21
OS	%	JAX47-SB111-01-112906	B610308-17	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB109-06-112906	B610308-16	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB109-01-112906	B610308-15	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB108-06-112906	B610308-14	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB108-01-112906	B610308-13	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB112-05-112906	B610308-20	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB104-01-112906	B610308-11	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB103-05-112906	B610308-10	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB103-01-112906	B610308-09	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	JAX47-SB102-05-112906	B610308-08	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB102-01-112906	B610308-07	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB101-05-112906	B610308-06	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB101-01-112906	B610308-05	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB092-01-112906	B610308-01	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	%	JAX47-SB093-06-112906	B610308-04	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB092-06-112906	B610308-02	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB092-06-112906	B610308-02RE1	NM	11/29/2006	12/8/2006	1/9/2007	9	32	41
OS	MG/KG	JAX47-SB092-01-112906	B610308-01	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB092-01-112906	B610308-01RE1	NM	11/29/2006	12/8/2006	12/21/2006	9	13	22
OS	MG/KG	JAX47-SB109-01-112906	B610308-15RE3	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB092-01-112906	B610308-01RE2	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB108-01-112906	B610308-13RE1	NM	11/29/2006	12/8/2006	12/21/2006	9	13	22
OS	MG/KG	JAX47-SB108-01-112906	B610308-13RE2	NM	11/29/2006	12/8/2006	12/22/2006	9	14	23
OS	MG/KG	JAX47-SB108-01-112906	B610308-13RE3	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB108-06-112906	B610308-14	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB108-06-112906	B610308-14RE1	NM	11/29/2006	12/8/2006	12/21/2006	9	13	22

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB108-06-112906	B610308-14RE2	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB109-01-112906	B610308-15	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB104-05-112906	B610308-12RE1	NM	11/29/2006	12/8/2006	1/9/2007	9	32	41
OS	MG/KG	JAX47-SB109-01-112906	B610308-15RE2	NM	11/29/2006	12/8/2006	12/21/2006	9	13	22
OS	MG/KG	JAX47-SB104-05-112906	B610308-12	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB109-06-112906	B610308-16	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB109-06-112906	B610308-16RE1	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB111-01-112906	B610308-17	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB111-01-112906	B610308-17RE1	NM	11/29/2006	12/8/2006	12/21/2006	9	13	22
OS	MG/KG	JAX47-SB111-01-112906	B610308-17RE2	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB111-05-112906	B610308-18RE1	NM	11/29/2006	12/8/2006	12/20/2006	9	12	21
OS	MG/KG	JAX47-SB112-01-112906	B610308-19	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB112-01-112906	B610308-19RE1	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB112-05-112906	B610308-20	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB109-01-112906	B610308-15RE1	NM	11/29/2006	12/8/2006	12/21/2006	9	13	22
OS	MG/KG	JAX47-SB102-01-112906	B610308-07RE1	NM	11/29/2006	12/8/2006	12/21/2006	9	13	22
OS	MG/KG	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB093-01-112906	B610308-03RE1	NM	11/29/2006	12/8/2006	12/21/2006	9	13	22

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB093-01-112906	B610308-03RE2	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB093-06-112906	B610308-04	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB093-06-112906	B610308-04RE1	NM	11/29/2006	12/8/2006	1/9/2007	9	32	41
OS	MG/KG	JAX47-SB101-01-112906	B610308-05	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB101-01-112906	B610308-05RE1	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB101-05-112906	B610308-06	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB108-01-112906	B610308-13	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB102-01-112906	B610308-07	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB112-05-112906	B610308-20RE1	NM	11/29/2006	12/8/2006	1/9/2007	9	32	41
OS	MG/KG	JAX47-SB102-01-112906	B610308-07RE2	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42
OS	MG/KG	JAX47-SB102-05-112906	B610308-08	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB102-05-112906	B610308-08RE1	NM	11/29/2006	12/8/2006	1/9/2007	9	32	41
OS	MG/KG	JAX47-SB103-01-112906	B610308-09	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB103-01-112906	B610308-09RE1	NM	11/29/2006	12/8/2006	1/9/2007	9	32	41
OS	MG/KG	JAX47-SB103-05-112906	B610308-10	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB103-05-112906	B610308-10RE1	NM	11/29/2006	12/8/2006	1/9/2007	9	32	41
OS	MG/KG	JAX47-SB104-01-112906	B610308-11	NM	11/29/2006	12/8/2006	12/15/2006	9	7	16
OS	MG/KG	JAX47-SB104-01-112906	B610308-11RE1	NM	11/29/2006	12/8/2006	1/10/2007	9	33	42

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB101-05-112906	B610308-06RE1	NM	11/29/2006	12/8/2006	1/9/2007	9	32	41

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chad McG	11-30-06	1130	[illegible]	11/30/06	1135H
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- JAX47-SB104-01-112906 was re-run as a dilution due to matrix interference.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Surrogate 2,4,5,6-TCMX for JAX47-SB092-01-112906, JAX47-SB092-06-112906, JAX47-SB093-01-112906, JAX47-SB101-05-112906, JAX47-SB103-01-112906, JAX47-SB112-01-112906, JAX47-SB112-05-112906 were outside the DoD QSM control limits. The data was accepted based on the surrogate DBC being within the DoD QSM control limits.
- Methoxychlor for Continuing Calibration Verification Standard resulted outside and below the DoD QSM limit. Any sample result associated with this standard/compound is considered to be estimated bias low.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.17 15:53:52 -05'00'

Christina M. Tompkins
Project Manager

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-007

Lab Sample ID	Client Sample ID
B610308-01	JAX47-SB092-01-112906
B610308-02	JAX47-SB092-06-112906
B610308-03	JAX47-SB093-01-112906
B610308-04	JAX47-SB093-01-112906
B610308-05	JAX47-SB101-01-112906
B610308-06	JAX47-SB101-05-112906
B610308-07	JAX47-SB102-01-112906
B610308-08	JAX47-SB102-05-112906
B610308-09	JAX47-SB103-01-112906
B610308-10	JAX47-SB103-05-112906
B610308-11	JAX47-SB104-01-112906
B610308-12	JAX47-SB104-05-112906
B610308-13	JAX47-SB108-01-112906
B610308-14	JAX47-SB108-06-112906
B610308-15	JAX47-SB109-01-112906
B610308-16	JAX47-SB109-06-112906
B610308-17	JAX47-SB111-01-112906
B610308-18	JAX47-SB111-05-112906
B610308-19	JAX47-SB112-01-112906
B610308-20	JAX47-SB112-05-112906

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-007

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB092-01-112906	B610308-01
JAX47-SB092-01-112906	B610308-01RE1
JAX47-SB092-01-112906	B610308-01RE2
JAX47-SB092-06-112906	B610308-02
JAX47-SB092-06-112906	B610308-02RE1
JAX47-SB093-01-112906	B610308-03
JAX47-SB093-01-112906	B610308-03RE1
JAX47-SB093-01-112906	B610308-03RE2
JAX47-SB093-06-112906	B610308-04
JAX47-SB093-06-112906	B610308-04RE1
JAX47-SB101-01-112906	B610308-05
JAX47-SB101-01-112906	B610308-05RE1
JAX47-SB101-05-112906	B610308-06
JAX47-SB101-05-112906	B610308-06RE1
JAX47-SB102-01-112906	B610308-07
JAX47-SB102-01-112906	B610308-07RE1
JAX47-SB102-01-112906	B610308-07RE2
JAX47-SB102-05-112906	B610308-08
JAX47-SB102-05-112906	B610308-08RE1
JAX47-SB103-01-112906	B610308-09
JAX47-SB103-01-112906	B610308-09RE1
JAX47-SB103-05-112906	B610308-10
JAX47-SB103-05-112906	B610308-10RE1
JAX47-SB104-01-112906	B610308-11
JAX47-SB104-01-112906	B610308-11RE1
JAX47-SB104-05-112906	B610308-12
JAX47-SB104-05-112906	B610308-12RE1
JAX47-SB108-01-112906	B610308-13
JAX47-SB108-01-112906	B610308-13RE1
JAX47-SB108-01-112906	B610308-13RE2
JAX47-SB108-01-112906	B610308-13RE3
JAX47-SB108-06-112906	B610308-14
JAX47-SB108-06-112906	B610308-14RE1
JAX47-SB108-06-112906	B610308-14RE2
JAX47-SB109-01-112906	B610308-15
JAX47-SB109-01-112906	B610308-15RE1
JAX47-SB109-01-112906	B610308-15RE2
JAX47-SB109-01-112906	B610308-15RE3
JAX47-SB109-06-112906	B610308-16
JAX47-SB109-06-112906	B610308-16RE1
JAX47-SB111-01-112906	B610308-17

JAX47-SB111-01-112906	B610308-17RE1
JAX47-SB111-01-112906	B610308-17RE2
JAX47-SB111-05-112906	B610308-18
JAX47-SB111-05-112906	B610308-18RE1
JAX47-SB112-01-112906	B610308-19
JAX47-SB112-01-112906	B610308-19RE1
JAX47-SB112-05-112906	B610308-20
JAX47-SB112-05-112906	B610308-20RE1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.17 15:55:34 -05'00'

Name: Christina Tompkins

Date: 01/17/07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-007

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.00013	0.0017	mg/kg
gamma-BHC	0.00016	0.0017	mg/kg
beta-BHC	0.00033	0.0017	mg/kg
delta-BHC	0.00016	0.0017	mg/kg
Heptachlor	0.00023	0.0017	mg/kg
Aldrin	0.00020	0.0017	mg/kg
Heptachlor epoxide	0.00056	0.0017	mg/kg
Chlordane-gamma	0.00023	0.0017	mg/kg
Chlordane-alpha	0.00026	0.0017	mg/kg
4,4′-DDE	0.00033	0.0017	mg/kg
Endosulfan I	0.00026	0.0017	mg/kg
Dieldrin	0.00023	0.0017	mg/kg
Endrin	0.00036	0.0017	mg/kg
4,4′-DDD	0.00030	0.0017	mg/kg
Endosulfan II	0.00023	0.0017	mg/kg
4,4′-DDT	0.00013	0.0017	mg/kg
Endrin aldehyde	0.00016	0.0017	mg/kg
Methoxychlor	0.00033	0.0017	mg/kg
Endosulfan sulfate	0.00026	0.0017	mg/kg
Endrin ketone	0.00030	0.0017	mg/kg
Toxaphene	0.0016	0.033	mg/kg
alpha-BHC [2C]	0.00013	0.0017	mg/kg
gamma-BHC [2C]	0.00016	0.0017	mg/kg
beta-BHC [2C]	0.00033	0.0017	mg/kg
delta-BHC [2C]	0.00016	0.0017	mg/kg
Heptachlor [2C]	0.00023	0.0017	mg/kg
Aldrin [2C]	0.00020	0.0017	mg/kg
Heptachlor epoxide [2C]	0.00056	0.0017	mg/kg
Chlordane-gamma [2C]	0.00023	0.0017	mg/kg
Chlordane-alpha [2C]	0.00026	0.0017	mg/kg
4,4'-DDE [2C]	0.00033	0.0017	mg/kg
Endosulfan I [2C]	0.00026	0.0017	mg/kg
Dieldrin [2C]	0.00023	0.0017	mg/kg
Endrin [2C]	0.00036	0.0017	mg/kg
4,4'-DDD [2C]	0.00030	0.0017	mg/kg
Endosulfan II [2C]	0.00023	0.0017	mg/kg
4,4'-DDT [2C]	0.00013	0.0017	mg/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-007

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.00016	0.0017	mg/kg
Methoxychlor [2C]	0.00033	0.0017	mg/kg
Endosulfan sulfate [2C]	0.00026	0.0017	mg/kg
Endrin ketone [2C]	0.00030	0.0017	mg/kg
Toxaphene [2C]	0.0016	0.033	mg/kg

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB092-01-112906	11/29/06 09:30	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 00:19	7.00	40.00	
JAX47-SB092-01-112906	11/29/06 09:30	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/21/06 15:17	13.00	40.00	
JAX47-SB092-01-112906	11/29/06 09:30	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 03:29	33.00	40.00	
JAX47-SB092-06-112906	11/29/06 09:36	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 00:45	7.00	40.00	
JAX47-SB092-06-112906	11/29/06 09:36	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/09/07 20:36	32.00	40.00	
JAX47-SB093-01-112906	11/29/06 09:12	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 01:11	7.00	40.00	
JAX47-SB093-01-112906	11/29/06 09:12	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/21/06 16:09	13.00	40.00	
JAX47-SB093-01-112906	11/29/06 09:12	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 13:39	33.00	40.00	
JAX47-SB093-06-112906	11/29/06 09:21	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 01:37	7.00	40.00	
JAX47-SB093-06-112906	11/29/06 09:21	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/09/07 21:02	32.00	40.00	
JAX47-SB101-01-112906	11/29/06 14:24	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 02:03	7.00	40.00	
JAX47-SB101-01-112906	11/29/06 14:24	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 01:46	33.00	40.00	
JAX47-SB101-05-112906	11/29/06 14:35	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 02:29	7.00	40.00	
JAX47-SB101-05-112906	11/29/06 14:35	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/09/07 21:28	33.00	40.00	
JAX47-SB102-01-112906	11/29/06 14:49	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 03:21	7.00	40.00	
JAX47-SB102-01-112906	11/29/06 14:49	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/21/06 14:52	13.00	40.00	
JAX47-SB102-01-112906	11/29/06 14:49	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 02:12	33.00	40.00	
JAX47-SB102-05-112906	11/29/06 15:03	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 03:47	7.00	40.00	
JAX47-SB102-05-112906	11/29/06 15:03	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/09/07 21:54	33.00	40.00	
JAX47-SB103-01-112906	11/29/06 10:35	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 04:13	7.00	40.00	
JAX47-SB103-01-112906	11/29/06 10:35	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/09/07 23:37	33.00	40.00	
JAX47-SB103-05-112906	11/29/06 11:00	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 04:39	7.00	40.00	
JAX47-SB103-05-112906	11/29/06 11:00	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/09/07 22:19	33.00	40.00	
JAX47-SB104-01-112906	11/29/06 10:03	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 05:05	7.00	40.00	

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB104-01-112906	11/29/06 10:03	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 00:29	33.00	40.00	
JAX47-SB104-05-112906	11/29/06 10:14	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 05:31	7.00	40.00	
JAX47-SB104-05-112906	11/29/06 10:14	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/09/07 22:45	33.00	40.00	
JAX47-SB108-01-112906	11/29/06 08:33	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 05:56	7.00	40.00	
JAX47-SB108-01-112906	11/29/06 08:33	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/21/06 17:01	13.00	40.00	
JAX47-SB108-01-112906	11/29/06 08:33	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/22/06 14:15	14.00	40.00	
JAX47-SB108-01-112906	11/29/06 08:33	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 14:05	33.00	40.00	
JAX47-SB108-06-112906	11/29/06 08:49	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 06:22	7.00	40.00	
JAX47-SB108-06-112906	11/29/06 08:49	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/21/06 14:26	13.00	40.00	
JAX47-SB108-06-112906	11/29/06 08:49	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 00:54	33.00	40.00	
JAX47-SB109-01-112906	11/29/06 09:19	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 06:48	7.00	40.00	
JAX47-SB109-01-112906	11/29/06 09:19	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/21/06 16:35	13.00	40.00	
JAX47-SB109-01-112906	11/29/06 09:19	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/21/06 17:53	13.00	40.00	
JAX47-SB109-01-112906	11/29/06 09:19	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 14:31	33.00	40.00	
JAX47-SB109-06-112906	11/29/06 09:45	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 07:14	7.00	40.00	
JAX47-SB109-06-112906	11/29/06 09:45	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 01:20	33.00	40.00	
JAX47-SB111-01-112906	11/29/06 13:12	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 08:06	7.00	40.00	
JAX47-SB111-01-112906	11/29/06 13:12	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/21/06 15:44	13.00	40.00	
JAX47-SB111-01-112906	11/29/06 13:12	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 04:21	33.00	40.00	
JAX47-SB111-05-112906	11/29/06 13:20	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/20/06 14:39	12.00	40.00	
JAX47-SB112-01-112906	11/29/06 12:52	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 08:58	7.00	40.00	
JAX47-SB112-01-112906	11/29/06 12:52	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/10/07 03:55	33.00	40.00	
JAX47-SB112-05-112906	11/29/06 13:00	11/30/06 11:35	12/08/06 09:22	9.00	14.00	12/15/06 09:23	7.00	40.00	
JAX47-SB112-05-112906	11/29/06 13:00	11/30/06 11:35	12/08/06 09:22	9.00	14.00	01/09/07 23:11	33.00	40.00	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L14027-BLK1	File ID:	9LOA006-0
Prepared:	12/14/06 18:51	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/20/06 13:22	Instrument:	JSVGCECD2		
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4´-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4´-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4´-DDT	0.000300	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.000333	J
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L14027-BLK1	File ID:	9LOB006-0
Prepared:	12/14/06 18:51	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/20/06 13:22	Instrument:	JSVGCECD2		
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.000467	J
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.000267	J
7421-93-4	Endrin aldehyde [2C]	0.000267	J
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0279	84	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.0270	81	70 - 125	
DBC	0.0333	0.0292	88	55 - 130	
DBC [2C]	0.0333	0.0288	86	55 - 130	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB092-01-112906

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L08005
Laboratory ID: 6L08005-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB092-01-112906

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0336	ND	0.0242	72	60 - 125
gamma-BHC	0.0336	0.000202	0.0249	73	60 - 125
beta-BHC	0.0336	0.00101	0.0255	73	60 - 125
delta-BHC	0.0336	ND	0.0255	76	55 - 130
Heptachlor	0.0336	ND	0.0240	71	50 - 140
Aldrin	0.0336	ND	0.0236	70	45 - 140
Heptachlor epoxide	0.0336	ND	0.0240	71	65 - 130
Chlordane-gamma	0.0336	ND	0.0244	73	65 - 125
Chlordane-alpha	0.0336	0.00158	0.0275	77	65 - 120
4,4'-DDE	0.0336	0.0763	0.109	97	70 - 125
Endosulfan I	0.0336	0.000403	0.0243	71	15 - 135
Dieldrin	0.0336	0.00134	0.0265	75	65 - 125
Endrin	0.0336	ND	0.0260	77	60 - 135
4,4'-DDD	0.0336	0.00161	0.0284	80	30 - 135
Endosulfan II	0.0336	0.00128	0.0244	69	35 - 140
4,4'-DDT	0.0336	0.0202	0.0510	92	45 - 140
Endrin aldehyde	0.0336	ND	0.0195	58	35 - 145
Methoxychlor	0.0336	ND	0.0248	74	55 - 145
Endosulfan sulfate	0.0336	0.000571	0.0265	77	60 - 135
Endrin ketone	0.0336	ND	0.0253	75	65 - 135
alpha-BHC [2C]	0.0336	0.000168	0.0242	71	60 - 125
gamma-BHC [2C]	0.0336	ND	0.0244	73	60 - 125
beta-BHC [2C]	0.0336	0.00743	0.0255	54 *	60 - 125
delta-BHC [2C]	0.0336	ND	0.0245	73	55 - 130
Heptachlor [2C]	0.0336	ND	0.0233	69	50 - 140
Aldrin [2C]	0.0336	ND	0.0240	71	45 - 140
Heptachlor epoxide [2C]	0.0336	ND	0.0249	74	65 - 130
Chlordane-gamma [2C]	0.0336	0.000538	0.0246	71	65 - 125
Chlordane-alpha [2C]	0.0336	0.000303	0.0239	70	65 - 120
4,4'-DDE [2C]	0.0336	0.0798	0.105	74	70 - 125
Endosulfan I [2C]	0.0336	ND	0.0240	71	15 - 135
Dieldrin [2C]	0.0336	0.00188	0.0271	75	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8081A

JAX47-SB092-01-112906

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L08005
Laboratory ID: 6L08005-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB092-01-112906

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0336	ND	0.0260	77	60 - 135
4,4'-DDD [2C]	0.0336	0.00178	0.0266	74	30 - 135
Endosulfan II [2C]	0.0336	0.000403	0.0248	73	35 - 140
4,4'-DDT [2C]	0.0336	0.0204	0.0486	84	45 - 140
Endrin aldehyde [2C]	0.0336	ND	0.0235	70	35 - 145
Methoxychlor [2C]	0.0336	ND	0.0260	77	55 - 145
Endosulfan sulfate [2C]	0.0336	ND	0.0267	79	60 - 135
Endrin ketone [2C]	0.0336	ND	0.0259	77	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0336	0.0223	66	8	30	60 - 125
gamma-BHC	0.0336	0.0235	69	6	30	60 - 125
beta-BHC	0.0336	0.0278	80	9	30	60 - 125
delta-BHC	0.0336	0.0260	77	2	30	55 - 130
Heptachlor	0.0336	0.0275	82	14	30	50 - 140
Aldrin	0.0336	0.0228	68	3	30	45 - 140
Heptachlor epoxide	0.0336	0.0246	73	2	30	65 - 130
Chlordane-gamma	0.0336	0.0228	68	7	30	65 - 125
Chlordane-alpha	0.0336	0.0262	73	5	30	65 - 120
4,4'-DDE	0.0336	0.104	83	4	30	70 - 125
Endosulfan I	0.0336	0.0238	70	2	30	15 - 135
Dieldrin	0.0336	0.0277	78	4	30	65 - 125
Endrin	0.0336	0.0252	75	3	30	60 - 135
4,4'-DDD	0.0336	0.0280	79	1	30	30 - 135
Endosulfan II	0.0336	0.0259	73	6	30	35 - 140
4,4'-DDT	0.0336	0.0472	80	8	30	45 - 140
Endrin aldehyde	0.0336	0.0201	60	3	30	35 - 145
Methoxychlor	0.0336	0.0251	75	1	30	55 - 145
Endosulfan sulfate	0.0336	0.0275	80	4	30	60 - 135
Endrin ketone	0.0336	0.0258	77	2	30	65 - 135
alpha-BHC [2C]	0.0336	0.0216	64	11	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB092-01-112906

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L08005	Laboratory ID:	6L08005-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB092-01-112906

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0336	0.0231	69	6	30	60 - 125
beta-BHC [2C]	0.0336	0.0269	58 *	5	30	60 - 125
delta-BHC [2C]	0.0336	0.0233	69	5	30	55 - 130
Heptachlor [2C]	0.0336	0.0220	66	5	30	50 - 140
Aldrin [2C]	0.0336	0.0226	67	6	30	45 - 140
Heptachlor epoxide [2C]	0.0336	0.0234	70	6	30	65 - 130
Chlordane-gamma [2C]	0.0336	0.0234	68	5	30	65 - 125
Chlordane-alpha [2C]	0.0336	0.0230	67	4	30	65 - 120
4,4'-DDE [2C]	0.0336	0.101	63 *	4	30	70 - 125
Endosulfan I [2C]	0.0336	0.0232	69	4	30	15 - 135
Dieldrin [2C]	0.0336	0.0266	74	2	30	65 - 125
Endrin [2C]	0.0336	0.0254	76	2	30	60 - 135
4,4'-DDD [2C]	0.0336	0.0256	71	4	30	30 - 135
Endosulfan II [2C]	0.0336	0.0244	71	2	30	35 - 140
4,4'-DDT [2C]	0.0336	0.0459	76	6	30	45 - 140
Endrin aldehyde [2C]	0.0336	0.0229	68	2	30	35 - 145
Methoxychlor [2C]	0.0336	0.0262	78	0.6	30	55 - 145
Endosulfan sulfate [2C]	0.0336	0.0265	79	0.6	30	60 - 135
Endrin ketone [2C]	0.0336	0.0262	78	1	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0343	0.000274	0.0242	70	60 - 125
gamma-BHC	0.0343	0.000961	0.0297	84	60 - 125
beta-BHC	0.0343	0.00168	0.0290	80	60 - 125
delta-BHC	0.0343	0.000583	0.0231	66	55 - 130
Heptachlor	0.0343	0.000412	0.0242	69	50 - 140
Aldrin	0.0343	ND	0.0232	68	45 - 140
Heptachlor epoxide	0.0343	0.0338	0.0484	42 *	65 - 130
Chlordane-gamma	0.0343	0.154	0.141	-39 *	65 - 125
Chlordane-alpha	0.0343	0.000892	0.000686	-0.6 *	65 - 120
4,4'-DDE	0.0343	0.216	0.201	-44 *	70 - 125
Endosulfan I	0.0343	ND	0.0256	75	15 - 135
Dieldrin	0.0343	0.127	0.117	-28 *	65 - 125
Endrin	0.0343	0.0458	0.0566	32 *	60 - 135
4,4'-DDD	0.0343	0.0647	0.0841	57	30 - 135
Endosulfan II	0.0343	ND	0.0377	110	35 - 140
4,4'-DDT	0.0343	0.249	0.240	-26 *	45 - 140
Endrin aldehyde	0.0343	0.0130	0.0313	53	35 - 145
Methoxychlor	0.0343	0.0122	0.0352	67	55 - 145
Endosulfan sulfate	0.0343	0.0102	0.0332	67	60 - 135
Endrin ketone	0.0343	0.00974	0.0316	64 *	65 - 135
alpha-BHC [2C]	0.0343	0.000240	0.0229	66	60 - 125
gamma-BHC [2C]	0.0343	0.00110	0.0285	80	60 - 125
beta-BHC [2C]	0.0343	0.000926	0.0239	67	60 - 125
delta-BHC [2C]	0.0343	0.000480	0.0210	60	55 - 130
Heptachlor [2C]	0.0343	0.000515	0.0224	64	50 - 140
Aldrin [2C]	0.0343	0.000995	0.0285	80	45 - 140
Heptachlor epoxide [2C]	0.0343	0.0110	0.0303	56 *	65 - 130
Chlordane-gamma [2C]	0.0343	0.111	0.133	64 *	65 - 125
Chlordane-alpha [2C]	0.0343	0.144	0.115	-84 *	65 - 120
4,4'-DDE [2C]	0.0343	0.189	0.179	-30 *	70 - 125
Endosulfan I [2C]	0.0343	ND	0.0267	78	15 - 135
Dieldrin [2C]	0.0343	0.121	0.110	-34 *	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0343	0.0422	0.0503	24 *	60 - 135
4,4'-DDD [2C]	0.0343	0.104	0.106	8 *	30 - 135
Endosulfan II [2C]	0.0343	ND	0.0310	90	35 - 140
4,4'-DDT [2C]	0.0343	0.248	0.235	-37 *	45 - 140
Endrin aldehyde [2C]	0.0343	0.0199	0.0425	66	35 - 145
Methoxychlor [2C]	0.0343	0.000480	0.0344	99	55 - 145
Endosulfan sulfate [2C]	0.0343	0.00642	0.0283	64	60 - 135
Endrin ketone [2C]	0.0343	0.0175	0.0424	73	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0343	0.0309	89	25	30	60 - 125
gamma-BHC	0.0343	0.0346	98	15	30	60 - 125
beta-BHC	0.0343	0.0322	89	10	30	60 - 125
delta-BHC	0.0343	0.0306	87	28	30	55 - 130
Heptachlor	0.0343	0.0302	87	22	30	50 - 140
Aldrin	0.0343	0.0289	84	22	30	45 - 140
Heptachlor epoxide	0.0343	0.0593	74	20	30	65 - 130
Chlordane-gamma	0.0343	0.151	-8 *	7	30	65 - 125
Chlordane-alpha	0.0343	0.000892	-0 *	26	30	65 - 120
4,4'-DDE	0.0343	0.209	-20 *	4	30	70 - 125
Endosulfan I	0.0343	0.0330	96	25	30	15 - 135
Dieldrin	0.0343	0.126	-3 *	7	30	65 - 125
Endrin	0.0343	0.0679	65	18	30	60 - 135
4,4'-DDD	0.0343	0.118	155 *	33 *	30	30 - 135
Endosulfan II	0.0343	0.0434	126	14	30	35 - 140
4,4'-DDT	0.0343	0.246	-9 *	2	30	45 - 140
Endrin aldehyde	0.0343	0.0405	80	26	30	35 - 145
Methoxychlor	0.0343	0.0497	109	34 *	30	55 - 145
Endosulfan sulfate	0.0343	0.0539	127	47 *	30	60 - 135
Endrin ketone	0.0343	0.0464	107	38 *	30	65 - 135
alpha-BHC [2C]	0.0343	0.0295	85	25	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L14027	Laboratory ID:	6L14027-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0343	0.0333	94		16	30	60 - 125
beta-BHC [2C]	0.0343	0.0304	86		24	30	60 - 125
delta-BHC [2C]	0.0343	0.0274	78		27	30	55 - 130
Heptachlor [2C]	0.0343	0.0282	81		23	30	50 - 140
Aldrin [2C]	0.0343	0.0305	86		7	30	45 - 140
Heptachlor epoxide [2C]	0.0343	0.0371	76		20	30	65 - 130
Chlordane-gamma [2C]	0.0343	0.113	6	*	16	30	65 - 125
Chlordane-alpha [2C]	0.0343	0.119	-72	*	4	30	65 - 120
4,4'-DDE [2C]	0.0343	0.187	-8	*	4	30	70 - 125
Endosulfan I [2C]	0.0343	0.0342	100		25	30	15 - 135
Dieldrin [2C]	0.0343	0.120	-5	*	9	30	65 - 125
Endrin [2C]	0.0343	0.0622	58	*	21	30	60 - 135
4,4'-DDD [2C]	0.0343	0.139	104		27	30	30 - 135
Endosulfan II [2C]	0.0343	0.0392	114		23	30	35 - 140
4,4'-DDT [2C]	0.0343	0.244	-11	*	4	30	45 - 140
Endrin aldehyde [2C]	0.0343	0.0564	106		28	30	35 - 145
Methoxychlor [2C]	0.0343	0.0455	131		28	30	55 - 145
Endosulfan sulfate [2C]	0.0343	0.0382	93		30	30	60 - 135
Endrin ketone [2C]	0.0343	0.0477	88		12	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L08005
Laboratory ID: 6L08005-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0253	76	60 - 125
gamma-BHC	0.0333	0.0254	76	60 - 125
beta-BHC	0.0333	0.0263	79	60 - 125
delta-BHC	0.0333	0.0255	76	55 - 130
Heptachlor	0.0333	0.0246	74	50 - 140
Aldrin	0.0333	0.0246	74	45 - 140
Heptachlor epoxide	0.0333	0.0241	72	65 - 130
Chlordane-gamma	0.0333	0.0249	75	65 - 125
Chlordane-alpha	0.0333	0.0252	76	65 - 120
4,4'-DDE	0.0333	0.0249	75	70 - 125
Endosulfan I	0.0333	0.0248	74	15 - 135
Dieldrin	0.0333	0.0252	76	65 - 125
Endrin	0.0333	0.0251	75	60 - 135
4,4'-DDD	0.0333	0.0255	76	30 - 135
Endosulfan II	0.0333	0.0253	76	35 - 140
4,4'-DDT	0.0333	0.0392	118	45 - 140
Endrin aldehyde	0.0333	0.0255	76	35 - 145
Methoxychlor	0.0333	0.0240	72	55 - 145
Endosulfan sulfate	0.0333	0.0262	79	60 - 135
Endrin ketone	0.0333	0.0255	77	65 - 135
alpha-BHC [2C]	0.0333	0.0265	80	60 - 125
gamma-BHC [2C]	0.0333	0.0264	79	60 - 125
beta-BHC [2C]	0.0333	0.0278	83	60 - 125
delta-BHC [2C]	0.0333	0.0264	79	55 - 130
Heptachlor [2C]	0.0333	0.0259	78	50 - 140
Aldrin [2C]	0.0333	0.0259	78	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0257	77	65 - 130
Chlordane-gamma [2C]	0.0333	0.0261	78	65 - 125
Chlordane-alpha [2C]	0.0333	0.0258	77	65 - 120
4,4'-DDE [2C]	0.0333	0.0263	79	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L08005	Laboratory ID:	6L08005-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0258	77	15 - 135
Dieldrin [2C]	0.0333	0.0262	79	65 - 125
Endrin [2C]	0.0333	0.0259	78	60 - 135
4,4'-DDD [2C]	0.0333	0.0264	79	30 - 135
Endosulfan II [2C]	0.0333	0.0260	78	35 - 140
4,4'-DDT [2C]	0.0333	0.0413	124	45 - 140
Endrin aldehyde [2C]	0.0333	0.0264	79	35 - 145
Methoxychlor [2C]	0.0333	0.0250	75	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0274	82	60 - 135
Endrin ketone [2C]	0.0333	0.0266	80	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0293	88	60 - 125
gamma-BHC	0.0333	0.0295	89	60 - 125
beta-BHC	0.0333	0.0312	94	60 - 125
delta-BHC	0.0333	0.0280	84	55 - 130
Heptachlor	0.0333	0.0292	88	50 - 140
Aldrin	0.0333	0.0288	86	45 - 140
Heptachlor epoxide	0.0333	0.0294	88	65 - 130
Chlordane-gamma	0.0333	0.0290	87	65 - 125
Chlordane-alpha	0.0333	0.0290	87	65 - 120
4,4'-DDE	0.0333	0.0301	90	70 - 125
Endosulfan I	0.0333	0.0291	87	15 - 135
Dieldrin	0.0333	0.0299	90	65 - 125
Endrin	0.0333	0.0303	91	60 - 135
4,4'-DDD	0.0333	0.0309	93	30 - 135
Endosulfan II	0.0333	0.0298	89	35 - 140
4,4'-DDT	0.0333	0.0292	88	45 - 140
Endrin aldehyde	0.0333	0.0295	89	35 - 145
Methoxychlor	0.0333	0.0290	87	55 - 145
Endosulfan sulfate	0.0333	0.0299	90	60 - 135
Endrin ketone	0.0333	0.0273	82	65 - 135
alpha-BHC [2C]	0.0333	0.0284	85	60 - 125
gamma-BHC [2C]	0.0333	0.0286	86	60 - 125
beta-BHC [2C]	0.0333	0.0296	89	60 - 125
delta-BHC [2C]	0.0333	0.0266	80	55 - 130
Heptachlor [2C]	0.0333	0.0277	83	50 - 140
Aldrin [2C]	0.0333	0.0285	85	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0282	85	65 - 130
Chlordane-gamma [2C]	0.0333	0.0285	85	65 - 125
Chlordane-alpha [2C]	0.0333	0.0283	85	65 - 120
4,4'-DDE [2C]	0.0333	0.0297	89	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L14027	Laboratory ID:	6L14027-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0289	87	15 - 135
Dieldrin [2C]	0.0333	0.0293	88	65 - 125
Endrin [2C]	0.0333	0.0299	90	60 - 135
4,4'-DDD [2C]	0.0333	0.0303	91	30 - 135
Endosulfan II [2C]	0.0333	0.0296	89	35 - 140
4,4'-DDT [2C]	0.0333	0.0282	85	45 - 140
Endrin aldehyde [2C]	0.0333	0.0291	87	35 - 145
Methoxychlor [2C]	0.0333	0.0293	88	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0297	89	60 - 135
Endrin ketone [2C]	0.0333	0.0275	82	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00089	Instrument:	JSVGCECD2
Calibration:	0612008		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-01	File ID:	9LIA018-0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 00:19
Solids:	99.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
gamma-BHC	* 1	8.617	8.628	0.011		0.00020	ND
beta-BHC	* 1	8.803	8.816429	0.0134		0.0010	637 R for M
Chlordane-alpha	1	11.351	11.34971	0.00129		0.0016	421 R for M
Endosulfan I	* 1	11.567	11.55586	0.0111		0.00040	ND
Dieldrin	* 1	11.909	11.91886	0.00986		0.0013	39.8 J for M
4,4'-DDD	* 1	12.366	12.37786	0.0119		0.0016	J
Endosulfan II	* 1	12.604	12.60057	0.00343		0.0013	217 R for M
Endosulfan sulfate	* 1	13.841	13.853	0.012		0.00057	ND
alpha-BHC	2	7.789	7.838	0.049		0.00017	ND
beta-BHC	2	8.67	8.687429	0.0174		0.0074	635 R for M
Chlordane-gamma	* 2	10.96	10.97329	0.0133		0.00054	ND
Chlordane-alpha	* 2	11.185	11.19143	0.00643		0.00030	422 R for M
Dieldrin	2	11.67	11.67429	0.00429		0.0019	40.5 J for M
4,4'-DDD	2	12.32	12.32514	0.00514		0.0018	J
Endosulfan II	2	12.431	12.43571	0.00471		0.00040	217 R for M
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0229	1.5
2,4,5,6-TCMX	2	6.558	6.564286	0.00629		0.0232	1.42
DBC	* 1	14.093	14.10214	0.00914		0.0264	7.83
DBC	2	13.904	13.90914	0.00514		0.0245	7.59

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-02	File ID:	9LIA019-0
Sampled:	11/29/06 09:36	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 00:45
Solids:	96.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m,32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.808	8.816429	0.00843		0.00076	69.1 J for U
4,4'-DDE	* 1	11.474	11.48286	0.00886		0.0016	U
beta-BHC	2	8.682	8.687429	0.00543		0.00045	69.3 J for U
4,4'-DDE	2	11.47	11.47543	0.00543		0.0018	U
Dieldrin	2	11.667	11.67429	0.00729		0.00031	NP
4,4'-DDD	2	12.318	12.32514	0.00714		0.00031	NP
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0229	2.86
2,4,5,6-TCMX	2	6.559	6.564286	0.00529		0.0236	3.07
DBC	* 1	14.094	14.10214	0.00814		0.0236	2.1
DBC	2	13.905	13.90914	0.00414		0.0241	1.92

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-03	File ID:	9LIA020-0
Sampled:	11/29/06 09:12	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 01:11
Solids:	98.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
gamma-BHC	* 1	8.616	8.628	0.012		0.00037	ND	
beta-BHC	* 1	8.806	8.816429	0.0104		0.0011	72.3	J for U
Heptachlor epoxide	1	10.949	10.95643	0.00743		0.0034	ND	
Chlordane-gamma	* 1	11.139	11.14771	0.00871		0.0011	118	J for U
Dieldrin	* 1	11.909	11.91886	0.00986		0.0011	16	
4,4'-DDD	* 1	12.368	12.37786	0.00986		0.0096	J	
Endosulfan sulfate	1	13.842	13.853	0.011		0.011	2350	R for U
beta-BHC	2	8.679	8.687429	0.00843		0.00061	72	J for U
Aldrin	2	9.708	9.759429	0.0514		0.00027	ND	
Chlordane-gamma	2	10.959	10.97329	0.0143		0.0024	118	J for U
Dieldrin	2	11.667	11.67429	0.00729		0.0012	16.3	
4,4'-DDD	2	12.319	12.32514	0.00614		0.012	J	
Endosulfan sulfate	* 2	13.318	13.32643	0.00843		0.00044	2350	R for U
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0221	1.46	
2,4,5,6-TCMX	2	6.558	6.564286	0.00629		0.0224	1.28	
DBC	* 1	14.094	14.10214	0.00814		0.0408	72.1	J for U
DBC	2	13.905	13.90914	0.00414		0.0237	J	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-04	File ID:	9LIA021-0
Sampled:	11/29/06 09:21	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 01:37
Solids:	84.67	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.138	11.14771	0.00971		0.00028	ND
Endrin aldehyde	2	12.987	12.927	0.06		0.0012	ND
2,4,5,6-TCMX	* 1	6.838	6.848286	0.0103		0.0276	3.42
2,4,5,6-TCMX	2	6.557	6.564286	0.00729		0.0285	
DBC	* 1	14.093	14.10214	0.00914		0.0281	0.818
DBC	2	13.903	13.90914	0.00614		0.0283	0.875

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-05	File ID:	9LIA022-0
Sampled:	11/29/06 14:24	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 02:03
Solids:	71.64	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.138	11.14771	0.00971		0.00042	12.6
Chlordane-alpha	1	11.316	11.34971	0.0337		0.0017	
4,4'-DDE	* 1	11.474	11.48286	0.00886		0.018	
4,4'-DDD	* 1	12.367	12.37786	0.0109		0.0011	
Chlordane-gamma	2	10.964	10.97329	0.00929		0.00037	12.6
4,4'-DDE	2	11.47	11.47543	0.00543		0.018	
4,4'-DDD	2	12.319	12.32514	0.00614		0.00093	
Endrin ketone	2	14.081	14.08214	0.00114		0.00056	ND
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0351	3.47
2,4,5,6-TCMX	2	6.559	6.564286	0.00529		0.0363	3.53
DBC	* 1	14.094	14.10214	0.00814		0.0364	1.63
DBC	2	13.905	13.90914	0.00414		0.0358	1.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-06	File ID:	9LIA023-0
Sampled:	11/29/06 14:35	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 02:29
Solids:	83.46	Preparation:	EPA 3545	Instrument:	~~JSVGCECD2~~
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.139	11.14771	0.00871		0.00036	11
Chlordane-alpha	* 1	11.339	11.34971	0.0107		0.00032	12.4
4,4'-DDD	* 1	12.369	12.37786	0.00886		0.0022	J
Chlordane-gamma	2	10.967	10.97329	0.00629		0.00040	11.3
Chlordane-alpha	2	11.186	11.19143	0.00543		0.00036	12.3
4,4'-DDD	2	12.32	12.32514	0.00514		0.0025	J
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0266	4.89
2,4,5,6-TCMX	2	6.558	6.564286	0.00629		0.0279	4.81
DBC	* 1	14.094	14.10214	0.00814		0.0267	2.32
DBC	2	13.905	13.90914	0.00414		0.0273	2.17

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-07	File ID:	9LIA025-0
Sampled:	11/29/06 14:49	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 03:21
Solids:	97.48	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Chlordane-gamma	* 1	11.138	11.14771	0.00971		0.00034	50	J for U
4,4'-DDE	* 1	11.473	11.48286	0.00986		0.066	J	
4,4'-DDD	* 1	12.367	12.37786	0.0109		0.0032	J	
Chlordane-gamma	2	10.964	10.97329	0.00929		0.00051	50	J for U
Chlordane-alpha	2	11.185	11.19143	0.00643		0.00031	NA	
4,4'-DDE	2	11.469	11.47543	0.00643		0.066	J	
Dieldrin	2	11.665	11.67429	0.00929		0.00041	ND	
4,4'-DDD	2	12.317	12.32514	0.00814		0.0039	J	
2,4,5,6-TCMX	* 1	6.838	6.848286	0.0103		0.0259	2.62	
2,4,5,6-TCMX	2	6.557	6.564286	0.00729		0.0266	2.72	
DBC	* 1	14.092	14.10214	0.0101		0.0280	4.89	
DBC	2	13.903	13.90914	0.00614		0.0267	4.98	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:.	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-08	File ID:	9LIA026-0
Sampled:	11/29/06 15:03	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 03:47
Solids:	97.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
2,4,5,6-TCMX	* 1	6.838	6.848286	0.0103		0.0245	3.96
2,4,5,6-TCMX	2	6.558	6.564286	0.00629		0.0255	4.17
DBC	* 1	14.094	14.10214	0.00814		0.0249	2.93
DBC	2	13.905	13.90914	0.00414		0.0256	2.91

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-09	File ID:	9LIA027-0
Sampled:	11/29/06 10:35	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 04:13
Solids:	91.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.137	11.14771	0.0107		0.00033	ND
2,4,5,6-TCMX	* 1	6.837	6.848286	0.0113		0.0244	1.54
2,4,5,6-TCMX	2	6.556	6.564286	0.00829		0.0248	1.75
DBC	* 1	14.092	14.10214	0.0101		0.0253	1.18
DBC	2	13.902	13.90914	0.00714		0.0256	1.17

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-10	File ID:	9LIA028-6
Sampled:	11/29/06 11:00	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 04:39
Solids:	74.11	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.136	11.14771	0.0117		0.00085	20.5
Chlordane-alpha	* 1	11.326	11.34971	0.0237		0.00085	5.51
4,4'-DDE	* 1	11.472	11.48286	0.0109		0.0018	J
Chlordane-gamma	2	10.965	10.97329	0.00829		0.0010	21
Chlordane-alpha	2	11.184	11.19143	0.00743		0.00081	5.61
4,4'-DDE	2	11.468	11.47543	0.00743		0.0018	J
2,4,5,6-TCMX	* 1	6.836	6.848286	0.0123		0.0335	0.569
2,4,5,6-TCMX	2	6.555	6.564286	0.00929		0.0337	0.699
DBC	* 1	14.091	14.10214	0.0111		0.0327	2.45
DBC	2	13.902	13.90914	0.00714		0.0335	2.34

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-11	File ID:	9LIA029-0
Sampled:	11/29/06 10:03	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:05
Solids:	89.81	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.136	11.14771	0.0117		0.00045	25.1
Chlordane-alpha	* 1	11.335	11.34971	0.0147		0.00033	11.1
4,4′-DDE	* 1	11.472	11.48286	0.0109		0.013	√
4,4′-DDD	* 1	12.366	12.37786	0.0119		0.0025	!
Chlordane-gamma	2	10.964	10.97329	0.00929		0.00056	25.1
Chlordane-alpha	2	11.184	11.19143	0.00743		0.00037	11.1
4,4'-DDE	2	11.468	11.47543	0.00743		0.014	!
4,4'-DDD	2	12.317	12.32514	0.00814		0.0028	√
2,4,5,6-TCMX	* 1	6.837	6.848286	0.0113		0.0269	1.82
2,4,5,6-TCMX	2	6.556	6.564286	0.00829		0.0274	1.97
DBC	* 1	14.091	14.10214	0.0111		0.0281	1.21
DBC	2	13.902	13.90914	0.00714		0.0284	0.914

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-12	File ID:	~~9LIA030-0~~
Sampled:	11/29/06 10:14	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:31
Solids:	89.07	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.137	11.14771	0.0107		0.00030	NP
2,4,5,6-TCMX	* 1	6.837	6.848286	0.0113		0.0285	1.48
2,4,5,6-TCMX	2	6.556	6.564286	0.00829		0.0289	1.37
DBC	* 1	14.092	14.10214	0.0101		0.0286	2
DBC	2	13.903	13.90914	0.00614		0.0292	2.06

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-13	File ID:	9LIA031-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:56
Solids:	97.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
beta-BHC		1	8.804	8.816429	0.0124		0.00069	nd	
Heptachlor epoxide		1	10.946	10.95643	0.0104		0.018	2770	NL for U
Chlordane-alpha	*	1	11.326	11.34971	0.0237		0.056	2.52	
Dieldrin	*	1	11.906	11.91886	0.0129		0.029	10.4	
Endrin	*	1	12.244	12.26457	0.0206		0.0011	67.6	J for U
Endrin aldehyde		1	13.224	13.21929	0.00471		0.0037	60.2	J for U
Endosulfan sulfate		1	13.838	13.853	0.015		0.0030	585	NL for U
Aldrin		2	9.732	9.759429	0.0274		0.00079	nd	
Heptachlor epoxide	*	2	10.668	10.67843	0.0104		0.00062	2770	NL for U
Chlordane-alpha		2	11.183	11.19143	0.00843		0.057	2.57	
Dieldrin		2	11.665	11.67429	0.00929		0.027	10.5	
Endrin		2	12.133	12.121	0.012		0.0018	68	J for U
Endrin aldehyde	*	2	12.938	12.927	0.011		0.0023	60.1	J for U
Endosulfan sulfate	*	2	13.322	13.32643	0.00443		0.00045	585	NL for U
2,4,5,6-TCMX	*	1	6.836	6.848286	0.0123		0.0243	0.0786	
2,4,5,6-TCMX		2	6.555	6.564286	0.00929		0.0243	0.0624	
DBC	*	1	14.09	14.10214	0.0121		0.0305	21.3	
DBC		2	13.901	13.90914	0.00814		0.0251	21.5	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-14	File ID:	9LIA032-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 06:22
Solids:	93.18	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.471	11.48286	0.0119		0.026	✓
Dieldrin	* 1	11.907	11.91886	0.0119		0.040	6.94
Endrin	* 1	12.304	12.26457	0.0394		0.012	2880 R for %D
Endosulfan II	* 1	12.595	12.60057	0.00557		0.00097	125 R for %D
Heptachlor	2	9.238	9.237571	0.000429		0.00032	ND
Aldrin	2	9.761	9.759429	0.00157		0.00050	ND
4,4'-DDE	2	11.467	11.47543	0.00843		0.025	✓
Dieldrin	2	11.666	11.67429	0.00829		0.038	6.94
Endrin	2	12.132	12.121	0.011		0.00039	2870 R for %D
Endosulfan II	2	12.401	12.43571	0.0347		0.00043	125 R for %D
4,4'-DDT	2	12.763	12.77157	0.00857		0.029	ND
Methoxychlor	2	13.749	13.77371	0.0247		0.00036	ND
2,4,5,6-TCMX	* 1	6.836	6.848286	0.0123		0.0250	1.72
2,4,5,6-TCMX	2	6.555	6.564286	0.00929		0.0254	1.45
DBC	* 1	14.091	14.10214	0.0111		0.0245	1.06
DBC	2	13.902	13.90914	0.00714		0.0248	1.33

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-15	File ID:	9LIA033-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 06:48
Solids:	96.15	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
beta-BHC	* 1	8.814	8.816429	0.00243		0.00080	109	J form
Heptachlor	* 1	9.455	9.463429	0.00843		0.00024	0.133	
Heptachlor epoxide	1	10.944	10.95643	0.0124		0.019	58.6	J form
Dieldrin	* 1	11.906	11.91886	0.0129		0.040	6.31	
Endrin	* 1	12.242	12.26457	0.0226		0.0018	356	R form
Methoxychlor	* 1	13.486	13.48543	0.00057		0.0020	67.1	J form
Endosulfan sulfate	1	13.837	13.853	0.016		0.0034	263	R form
Endrin ketone	* 1	14.222	14.25229	0.0303		0.00035	1830	R form
beta-BHC	2	8.727	8.687429	0.0396		0.00038	109	J form
Heptachlor	2	9.236	9.237571	0.00157		0.00024	0.133	
Aldrin	2	9.763	9.759429	0.00357		0.0011	rp	
Heptachlor epoxide	* 2	10.669	10.67843	0.00943		0.012	57.9	J form
Dieldrin	2	11.664	11.67429	0.0103		0.038	6.34	
Endrin	2	12.106	12.121	0.015		0.0082	356	R form
Methoxychlor	2	13.792	13.77371	0.0183		0.0034	67.3	J form
Endosulfan sulfate	* 2	13.318	13.32643	0.00843		0.00094	263	R form
Endrin ketone	2	14.113	14.08214	0.0309		0.0067	1830	R form
2,4,5,6-TCMX	* 1	6.843	6.848286	0.00529		0.0252	3.01	
2,4,5,6-TCMX	2	6.562	6.564286	0.00229		0.0245	2.67	
DBC	* 1	14.09	14.10214	0.0121		0.0330	19.3	
DBC	2	13.9	13.90914	0.00914		0.0277	19.1	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-16	File ID:	9LIA034-0
Sampled:	11/29/06 09:45	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 07:14
Solids:	90.28	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Heptachlor epoxide	* 1	10.944	10.95643	0.0124		0.00085	ND	
Chlordane-gamma	* 1	11.135	11.14771	0.0127		0.011	9.09	
Chlordane-alpha	* 1	11.334	11.34971	0.0157		0.012	0.53	
4,4'-DDE	* 1	11.469	11.48286	0.0139		0.011	J	
Dieldrin	* 1	11.905	11.91886	0.0139		0.0030	12.4	
4,4'-DDD	* 1	12.364	12.37786	0.0139		0.0039	J	J for U
Chlordane-gamma	2	10.964	10.97329	0.00929		0.012	9.37	
Chlordane-alpha	2	11.183	11.19143	0.00843		0.012	1.22	
4,4'-DDE	2	11.466	11.47543	0.00943		0.011		
Dieldrin	2	11.664	11.67429	0.0103		0.0027	12.5	
4,4'-DDD	2	12.313	12.32514	0.0121		0.0068	J	J for U
Endrin aldehyde	2	12.936	12.927	0.009		0.00063	ND	
2,4,5,6-TCMX	* 1	6.843	6.848286	0.00529		0.0292	2.11	
2,4,5,6-TCMX	2	6.562	6.564286	0.00229		0.0286	2.18	
DBC	* 1	14.089	14.10214	0.0131		0.0291	1.5	
DBC	2	13.901	13.90914	0.00814		0.0287	1.44	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-17	File ID:	9LIA036-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 08:06
Solids:	96.05	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.452	9.463429	0.0114		0.00024	0.0289
Heptachlor epoxide	* 1	10.944	10.95643	0.0124		0.0036	16.8
Chlordane-gamma	* 1	11.136	11.14771	0.0117		0.0031	21
Chlordane-alpha	* 1	11.334	11.34971	0.0157		0.0010	89.8 J for M
Dieldrin	* 1	11.906	11.91886	0.0129		0.0016	21.5
4,4'-DDD	* 1	12.363	12.37786	0.0149		0.0036	J
Endrin aldehyde	* 1	13.207	13.21929	0.0123		0.00024	57.2 J for M
Endosulfan sulfate	* 1	13.836	13.853	0.017		0.00090	NP
Endrin ketone	* 1	14.225	14.25229	0.0273		0.00031	100 J for M
Heptachlor	2	9.231	9.237571	0.00657		0.00024	0.0289
Heptachlor epoxide	2	10.67	10.67843	0.00843		0.0031	16.9
Chlordane-gamma	2	10.965	10.97329	0.00829		0.0038	21.2
Chlordane-alpha	2	11.184	11.19143	0.00743		0.0019	89 J for M
Dieldrin	2	11.665	11.67429	0.00929		0.0019	21.5
4,4'-DDD	2	12.316	12.32514	0.00914		0.0041	J
Endrin aldehyde	2	12.89	12.927	0.037		0.00038	57.1 J for M
Endrin ketone	2	14.117	14.08214	0.0349		0.00062	100 J for M
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.0257	2.72
2,4,5,6-TCMX	2	6.565	6.564286	0.000714		0.0250	2.71
DBC	* 1	14.09	14.10214	0.0121		0.0285	4.62
DBC	2	13.901	13.90914	0.00814		0.0272	4.88

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-19	File ID:	9LIA038-0
Sampled:	11/29/06 12:52	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 08:58
Solids:	74.20	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.134	11.14771	0.0137		0.00054	0.013
4,4'-DDE	* 1	11.469	11.48286	0.0139		0.026	J
4,4'-DDD	* 1	12.363	12.37786	0.0149		0.0013	J
Chlordane-gamma	2	10.962	10.97329	0.0113		0.00054	0.013
Chlordane-alpha	2	11.182	11.19143	0.00943		0.00045	ND
4,4'-DDE	2	11.466	11.47543	0.00943		0.028	J
4,4'-DDD	2	12.315	12.32514	0.0101		0.0013	J
2,4,5,6-TCMX	* 1	6.835	6.848286	0.0133		0.0222	1.84
2,4,5,6-TCMX	2	6.554	6.564286	0.0103		0.0226	1.99
DBC	* 1	14.089	14.10214	0.0131		0.0263	1.64
DBC	2	13.9	13.90914	0.00914		0.0259	1.46

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-20	File ID:	9LIA039-0
Sampled:	11/29/06 13:00	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 09:23
Solids:	74.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.134	11.14771	0.0137		0.00058	7.68
Chlordane-alpha	* 1	11.334	11.34971	0.0157		0.00049	9.02
4,4'-DDE	* 1	11.469	11.48286	0.0139		0.0021	J
Chlordane-gamma	2	10.963	10.97329	0.0103		0.00063	7.73
Chlordane-alpha	2	11.182	11.19143	0.00943		0.00054	9.2
4,4'-DDE	2	11.466	11.47543	0.00943		0.0022	J
Endrin aldehyde	2	12.984	12.927	0.057		0.0010	NP
2,4,5,6-TCMX	* 1	6.834	6.848286	0.0143		0.0271	1.29
2,4,5,6-TCMX	2	6.554	6.564286	0.0103		0.0274	1.15
DBC	* 1	14.088	14.10214	0.0141		0.0293	2.27
DBC	2	13.9	13.90914	0.00914		0.0286	2.37

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-18RE1	File ID:	9LOA009-0
Sampled:	11/29/06 13:20	Prepared:	12/08/06 09:22	Analyzed:	12/20/06 14:39
Solids:	72.89	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDT	* 1	12.693	12.78071	0.0877		0.00050	✓
4,4'-DDT	2	12.692	12.77157	0.0796		0.00064	
2,4,5,6-TCMX	* 1	6.753	6.848286	0.0953		0.0375	3.46
2,4,5,6-TCMX	2	6.48	6.564286	0.0843		0.0362	3.67
DBC	* 1	14.014	14.10214	0.0881		0.0395	3.16
DBC	2	13.831	13.90914	0.0781		0.0383	3.07

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-14RE1	File ID:	9LPA004-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 14:26
Solids:	93.18	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.036	11.14771	0.112		0.10	1.63
Chlordane-alpha	* 1	11.236	11.34971	0.114		0.094	6.16
4,4'-DDD	* 1	12.27	12.37786	0.108		0.12	✓
Chlordane-gamma	2	10.872	10.97329	0.101		0.10	2.46
Chlordane-alpha	2	11.094	11.19143	0.0974		0.099	6.14
4,4'-DDD	2	12.229	12.32514	0.0961		0.13	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-07RE1	File ID:	9LPA005-0
Sampled:	11/29/06 14:49	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 14:52
Solids:	97.48	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.674	12.78071	0.107		0.18	✓
4,4'-DDT	2	12.675	12.77157	0.0966		0.18	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-01RE1	File ID:	9LPA006-0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 15:17
Solids:	99.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.375	11.48286	0.108		0.070	✓
4,4'-DDE	2	11.38	11.47543	0.0954		0.073	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-17RE1	File ID:	9LPA007-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 15:44
Solids:	96.05	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m,32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.375	11.48286	0.108		0.098	✓
4,4'-DDE	2	11.38	11.47543	0.0954		0.10	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-03RE1	File ID:	9LPA008-0
Sampled:	11/29/06 09:12	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 16:09
Solids:	98.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.376	11.48286	0.107		0.55	J
4,4'-DDT	* 1	12.674	12.78071	0.107		0.36	J
4,4'-DDE	2	11.381	11.47543	0.0944		0.56	J
4,4'-DDT	2	12.676	12.77157	0.0956		0.35	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-15RE1	File ID:	9LPA009-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 16:35
Solids:	96.15	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.036	11.14771	0.112		0.082	10.5
Chlordane-alpha	* 1	11.236	11.34971	0.114		0.098	5.63
4,4'-DDE	* 1	11.375	11.48286	0.108		0.44	✓
4,4'-DDD	* 1	12.268	12.37786	0.11		0.11	✓
Chlordane-gamma	2	10.872	10.97329	0.101		0.091	10.5
Chlordane-alpha	2	11.093	11.19143	0.0984		0.10	5.24
4,4'-DDE	2	11.38	11.47543	0.0954		0.46	✓
4,4'-DDD	2	12.226	12.32514	0.0991		0.16	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-13RE1	File ID:	9LPA010-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 17:01
Solids:	97.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.036	11.14771	0.112		0.074	10.2
4,4'-DDE	* 1	11.375	11.48286	0.108		0.29	J
4,4'-DDD	* 1	12.268	12.37786	0.11		0.28	J
Chlordane-gamma	2	10.871	10.97329	0.102		0.082	10.2
4,4'-DDE	2	11.38	11.47543	0.0954		0.30	J
4,4'-DDD	2	12.228	12.32514	0.0971		0.33	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-15RE2	File ID:	9LPA012-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 17:53
Solids:	96.15	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.673	12.78071	0.108		4.2	✓
4,4'-DDT	2	12.674	12.77157	0.0976		4.3	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-13RE2	File ID:	9LQA008-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/22/06 14:15
Solids:	97.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m,32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.658	12.78071	0.123		0.65	
4,4'-DDT	2	12.661	12.77157	0.111		0.68	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-02RE1	File ID:	9ADA006-0
Sampled:	11/29/06 09:36	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 20:36
Solids:	96.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	1	12.458	12.78071	0.323		0.0013	8.39
4,4'-DDT	* 2	12.474	12.77157	0.298		0.0015	6.68

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-04RE1	File ID:	9ADA007-0
Sampled:	11/29/06 09:21	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:02
Solids:	84.67	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.458	12.78071	0.323		0.0014	J
4,4'-DDT	2	12.475	12.77157	0.297		0.0015	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-06RE1	File ID:	9ADA008-0
Sampled:	11/29/06 14:35	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:28
Solids:	83.46	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4′-DDT	* 1	12.459	12.78071	0.322		0.073	J
4,4'-DDT	2	12.475	12.77157	0.297		0.067	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-08RE1	File ID:	9ADA009-0
Sampled:	11/29/06 15:03	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:54
Solids:	97.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.0029	J
4,4'-DDT	2	12.476	12.77157	0.296		0.0028	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-10RE1	File ID:	9ADA010-0
Sampled:	11/29/06 11:00	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 22:19
Solids:	74.11	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.0027	✓
4,4'-DDT	2	12.477	12.77157	0.295		0.0026	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-12RE1	File ID:	9ADA011-0
Sampled:	11/29/06 10:14	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 22:45
Solids:	89.07	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.461	12.78071	0.32		0.00022	J
4,4'-DDT	2	12.478	12.77157	0.294		0.00022	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-20RE1	File ID:	9ADA012-0
Sampled:	11/29/06 13:00	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 23:11
Solids:	74.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDT	* 1	12.46	12.78071	0.321		0.0022	✓
4,4'-DDT	2	12.477	12.77157	0.295		0.0021	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-09RE1	File ID:	9ADA013-0
Sampled:	11/29/06 10:35	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 23:37
Solids:	91.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	1	12.46	12.78071	0.321		0.00048	✓7.77
4,4'-DDT	* 2	12.477	12.77157	0.295		0.00059	✓6.72

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-11RE1	File ID:	9ADA015-0
Sampled:	11/29/06 10:03	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 00:29
Solids:	89.81	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4′-DDT	* 1	12.461	12.78071	0.32		0.084	√
4,4'-DDT	2	12.478	12.77157	0.294		0.079	√

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-14RE2	File ID:	9ADA016-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 00:54
Solids:	93.18	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDT	* 1	12.46	12.78071	0.321		0.037	✓
4,4'-DDT	2	12.476	12.77157	0.296		0.036	✓
Methoxychlor	2	13.466	13.77371	0.308		0.00050	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-16RE1	File ID:	9ADA017-0
Sampled:	11/29/06 09:45	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 01:20
Solids:	90.28	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.028	✓
4,4'-DDT	2	12.477	12.77157	0.295		0.027	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-05RE1	File ID:	9ADA018-0
Sampled:	11/29/06 14:24	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 01:46
Solids:	71.64	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.013	J
4,4'-DDT	2	12.477	12.77157	0.295		0.013	J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-01RE2	File ID:	9ADA022-0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 03:29
Solids:	99.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.461	12.78071	0.32		0.022	J
Methoxychlor	* 1	13.18	13.48543	0.305		0.0026	262 R for M
4,4'-DDT	2	12.477	12.77157	0.295		0.021	J
Methoxychlor	2	13.499	13.77371	0.275		0.00071	261 R for M

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-19RE1	File ID:	9ADA023-0
Sampled:	11/29/06 12:52	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 03:55
Solids:	74.20	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDT	* 1	12.458	12.78071	0.323		0.0093	✓
4,4'-DDT	2	12.475	12.77157	0.297		0.0099	✓
Methoxychlor	2	13.499	13.77371	0.275		0.00094	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-17RE2	File ID:	9ADA024-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 04:21
Solids:	96.05	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
4,4´-DDT	* 1	12.459	12.78071	0.322		0.034	J	
Methoxychlor	* 1	13.168	13.48543	0.317		0.0012	35.9	J for Y
4,4'-DDT	2	12.477	12.77157	0.295		0.034	J	
Methoxychlor	2	13.497	13.77371	0.277		0.00087	36	J for Y

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-03RE2	File ID:	9AEA004-0
Sampled:	11/29/06 09:12	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 13:39
Solids:	98.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Methoxychlor	* 1	13.162	13.48543	0.323		0.0015	1580
Methoxychlor	2	13.475	13.77371	0.299		0.025	1590

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-13RE3	File ID:	9AEA005-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 14:05
Solids:	97.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Methoxychlor	* 1	13.162	13.48543	0.323		0.00069	104
Methoxychlor	2	13.453	13.77371	0.321		0.0014	105

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-15RE3	File ID:	9AEA006-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 14:31
Solids:	96.15	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Methoxychlor	* 1	13.159	13.48543	0.326		0.00055	526
Methoxychlor	2	13.48	13.77371	0.294		0.0035	525

* Column used for quantitation

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00092	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00092-IBL1	9LIB001A-0	12/14/06 16:58
Instrument Blank	BA00092-IBL1	9LIA001A-0	12/14/06 16:58
Performance Mix	BA00092-PEM1	9LIB008-0	12/14/06 19:59
Performance Mix	BA00092-PEM1	9LIA008-0	12/14/06 19:59
Calibration Check	BA00092-CCV1	9LIB013-0	12/14/06 22:09
Calibration Check	BA00092-CCV1	9LIA013-0	12/14/06 22:09
Blank	6L08005-BLK1	9LIA014-0	12/14/06 22:35
Blank	6L08005-BLK1	9LIB014-0	12/14/06 22:35
LCS	6L08005-BS1	9LIB015-0	12/14/06 23:01
LCS	6L08005-BS1	9LIA015-0	12/14/06 23:01
JAX47-SB092-01-112906	6L08005-MS1	9LIA016-0	12/14/06 23:27
JAX47-SB092-01-112906	6L08005-MS1	9LIB016-0	12/14/06 23:27
JAX47-SB092-01-112906	6L08005-MSD1	9LIA017-0	12/14/06 23:53
JAX47-SB092-01-112906	6L08005-MSD1	9LIB017-0	12/14/06 23:53
JAX47-SB092-01-112906	B610308-01	9LIA018-0	12/15/06 00:19
JAX47-SB092-01-112906	B610308-01	9LIB018-0	12/15/06 00:19
JAX47-SB092-06-112906	B610308-02	9LIA019-0	12/15/06 00:45
JAX47-SB092-06-112906	B610308-02	9LIB019-0	12/15/06 00:45
JAX47-SB093-01-112906	B610308-03	9LIB020-0	12/15/06 01:11
JAX47-SB093-01-112906	B610308-03	9LIA020-0	12/15/06 01:11
JAX47-SB093-06-112906	B610308-04	9LIA021-0	12/15/06 01:37
JAX47-SB093-06-112906	B610308-04	9LIB021-0	12/15/06 01:37
JAX47-SB101-01-112906	B610308-05	9LIB022-0	12/15/06 02:03
JAX47-SB101-01-112906	B610308-05	9LIA022-0	12/15/06 02:03
JAX47-SB101-05-112906	B610308-06	9LIB023-0	12/15/06 02:29
JAX47-SB101-05-112906	B610308-06	9LIA023-0	12/15/06 02:29
Calibration Check	BA00092-CCV2	9LIA024-0	12/15/06 02:55
Calibration Check	BA00092-CCV2	9LIB024-0	12/15/06 02:55
JAX47-SB102-01-112906	B610308-07	9LIA025-0	12/15/06 03:21
JAX47-SB102-01-112906	B610308-07	9LIB025-0	12/15/06 03:21
JAX47-SB102-05-112906	B610308-08	9LIA026-0	12/15/06 03:47
JAX47-SB102-05-112906	B610308-08	9LIB026-0	12/15/06 03:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00092	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB103-01-112906	B610308-09	9LIA027-0	12/15/06 04:13
JAX47-SB103-01-112906	B610308-09	9LIB027-0	12/15/06 04:13
JAX47-SB103-05-112906	B610308-10	9LIA028-0	12/15/06 04:39
JAX47-SB103-05-112906	B610308-10	9LIB028-0	12/15/06 04:39
JAX47-SB104-01-112906	B610308-11	9LIB029-0	12/15/06 05:05
JAX47-SB104-01-112906	B610308-11	9LIA029-0	12/15/06 05:05
JAX47-SB104-05-112906	B610308-12	9LIA030-0	12/15/06 05:31
JAX47-SB104-05-112906	B610308-12	9LIB030-0	12/15/06 05:31
JAX47-SB108-01-112906	B610308-13	9LIA031-0	12/15/06 05:56
JAX47-SB108-01-112906	B610308-13	9LIB031-0	12/15/06 05:56
JAX47-SB108-06-112906	B610308-14	9LIA032-0	12/15/06 06:22
JAX47-SB108-06-112906	B610308-14	9LIB032-0	12/15/06 06:22
JAX47-SB109-01-112906	B610308-15	9LIA033-0	12/15/06 06:48
JAX47-SB109-01-112906	B610308-15	9LIB033-0	12/15/06 06:48
JAX47-SB109-06-112906	B610308-16	9LIA034-0	12/15/06 07:14
JAX47-SB109-06-112906	B610308-16	9LIB034-0	12/15/06 07:14
Calibration Check	BA00092-CCV3	9LIB035-0	12/15/06 07:40
Calibration Check	BA00092-CCV3	9LIA035-0	12/15/06 07:40
JAX47-SB111-01-112906	B610308-17	9LIB036-0	12/15/06 08:06
JAX47-SB111-01-112906	B610308-17	9LIA036-0	12/15/06 08:06
JAX47-SB112-01-112906	B610308-19	9LIA038-0	12/15/06 08:58
JAX47-SB112-01-112906	B610308-19	9LIB038-0	12/15/06 08:58
JAX47-SB112-05-112906	B610308-20	9LIB039-0	12/15/06 09:23
JAX47-SB112-05-112906	B610308-20	9LIA039-0	12/15/06 09:23
Calibration Check	BA00092-CCV4	9LIA040-0	12/15/06 09:49
Calibration Check	BA00092-CCV4	9LIB040-0	12/15/06 09:49
Instrument Blank	BA00092-IBL2	9LPB001-0	12/21/06 13:08
Instrument Blank	BA00092-IBL2	9LPA001-0	12/21/06 13:08
Performance Mix	BA00092-PEM2	9LPB002-0	12/21/06 13:34
Performance Mix	BA00092-PEM2	9LPA002-0	12/21/06 13:34
Calibration Check	BA00092-CCV5	9LPB003-0	12/21/06 14:00
Calibration Check	BA00092-CCV5	9LPA003-0	12/21/06 14:00

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00092	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB108-06-112906	B610308-14RE1	9LPB004-0	12/21/06 14:26
JAX47-SB108-06-112906	B610308-14RE1	9LPA004-0	12/21/06 14:26
JAX47-SB102-01-112906	B610308-07RE1	9LPB005-0	12/21/06 14:52
JAX47-SB102-01-112906	B610308-07RE1	9LPA005-0	12/21/06 14:52
JAX47-SB092-01-112906	B610308-01RE1	9LPB006-0	12/21/06 15:17
JAX47-SB092-01-112906	B610308-01RE1	9LPA006-0	12/21/06 15:17
JAX47-SB111-01-112906	B610308-17RE1	9LPA007-0	12/21/06 15:44
JAX47-SB111-01-112906	B610308-17RE1	9LPB007-0	12/21/06 15:44
JAX47-SB093-01-112906	B610308-03RE1	9LPA008-0	12/21/06 16:09
JAX47-SB093-01-112906	B610308-03RE1	9LPB008-0	12/21/06 16:09
JAX47-SB109-01-112906	B610308-15RE1	9LPA009-0	12/21/06 16:35
JAX47-SB109-01-112906	B610308-15RE1	9LPB009-0	12/21/06 16:35
JAX47-SB108-01-112906	B610308-13RE1	9LPB010-0	12/21/06 17:01
JAX47-SB108-01-112906	B610308-13RE1	9LPA010-0	12/21/06 17:01
JAX47-SB109-01-112906	B610308-15RE2	9LPA012-0	12/21/06 17:53
JAX47-SB109-01-112906	B610308-15RE2	9LPB012-0	12/21/06 17:53
Calibration Check	BA00092-CCV6	9LPA013-0	12/21/06 18:19
Calibration Check	BA00092-CCV6	9LPB013-0	12/21/06 18:19
Instrument Blank	BA00092-IBL3	9LQA001-0	12/22/06 10:49
Instrument Blank	BA00092-IBL3	9LQB001-0	12/22/06 10:49
Performance Mix	BA00092-PEM3	9LQB002-0	12/22/06 11:14
Performance Mix	BA00092-PEM3	9LQA002-0	12/22/06 11:14
Calibration Check	BA00092-CCV7	9LQA003-0	12/22/06 11:40
Calibration Check	BA00092-CCV7	9LQB003-0	12/22/06 11:40
JAX47-SB108-01-112906	B610308-13RE2	9LQA008-0	12/22/06 14:15
JAX47-SB108-01-112906	B610308-13RE2	9LQB008-0	12/22/06 14:15
Calibration Check	BA00092-CCV8	9LQB012-0	12/22/06 16:24
Calibration Check	BA00092-CCV8	9LQA012-0	12/22/06 16:24

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00093	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00093-PEM1	9A3B015-0	01/03/07 17:11
Performance Mix	BA00093-PEM1	9A3A015-0	01/03/07 17:11
Performance Mix	BA00093-PEM2	9LPB002-0	12/21/06 13:34
Performance Mix	BA00093-PEM2	9LPA002-0	12/21/06 13:34
Performance Mix	BA00093-PEM3	9LQB021-0	12/22/06 21:17
Performance Mix	BA00093-PEM3	9LQA021-0	12/22/06 21:17
Performance Mix	BA00093-PEM4	9LUB023-0	12/26/06 21:27
Performance Mix	BA00093-PEM4	9LUA023-0	12/26/06 21:27
Performance Mix	BA00093-PEM5	9LVB002-0	12/27/06 10:20
Performance Mix	BA00093-PEM5	9LVA002-0	12/27/06 10:20

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00107-IBL1	9LOB001-0	12/20/06 10:39
Instrument Blank	BA00107-IBL1	9LOA001-0	12/20/06 10:39
Performance Mix	BA00107-PEM1	9LOB002A-0	12/20/06 11:32
Performance Mix	BA00107-PEM1	9LOA002A-0	12/20/06 11:32
Calibration Check	BA00107-CCV1	9LOB003-0	12/20/06 11:59
Calibration Check	BA00107-CCV1	9LOA003-0	12/20/06 11:59
LCS	6L14027-BS1	9LOA005-0	12/20/06 12:50
LCS	6L14027-BS1	9LOB005-0	12/20/06 12:50
Blank	6L14027-BLK1	9LOA006-0	12/20/06 13:22
Blank	6L14027-BLK1	9LOB006-0	12/20/06 13:22
JAX47-SB111-05-112906	B610308-18RE1	9LOA009-0	12/20/06 14:39
JAX47-SB111-05-112906	B610308-18RE1	9LOB009-0	12/20/06 14:39
Calibration Check	BA00107-CCV2	9LOB013-0	12/20/06 16:23
Calibration Check	BA00107-CCV2	9LOA013-0	12/20/06 16:23
JAX47-SB110-01-113006	6L14027-MS1	9LOA015-0	12/20/06 17:14
JAX47-SB110-01-113006	6L14027-MS1	9LOB015-0	12/20/06 17:14
JAX47-SB110-01-113006	6L14027-MSD1	9LOA016-0	12/20/06 17:40
JAX47-SB110-01-113006	6L14027-MSD1	9LOB016-0	12/20/06 17:40
Calibration Check	BA00107-CCV3	9LOA017-0	12/20/06 18:06
Calibration Check	BA00107-CCV3	9LOB017-0	12/20/06 18:06
Instrument Blank	BA00107-IBL2	9LQB001-0	12/22/06 10:49
Instrument Blank	BA00107-IBL2	9LQA001-0	12/22/06 10:49
Performance Mix	BA00107-PEM2	9LQB002-0	12/22/06 11:14
Performance Mix	BA00107-PEM2	9LQA002-0	12/22/06 11:14

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00161	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00161-IBL1	9ADB001-0	01/09/07 18:27
Instrument Blank	BA00161-IBL1	9ADA001-0	01/09/07 18:27
Performance Mix	BA00161-PEM1	9ADA002-0	01/09/07 18:53
Performance Mix	BA00161-PEM1	9ADB002-0	01/09/07 18:53
Calibration Check	BA00161-CCV1	9ADB003-0	01/09/07 19:19
Calibration Check	BA00161-CCV1	9ADA003-0	01/09/07 19:19
JAX47-SB092-06-112906	B610308-02RE1	9ADA006-0	01/09/07 20:36
JAX47-SB092-06-112906	B610308-02RE1	9ADB006-0	01/09/07 20:36
JAX47-SB093-06-112906	B610308-04RE1	9ADB007-0	01/09/07 21:02
JAX47-SB093-06-112906	B610308-04RE1	9ADA007-0	01/09/07 21:02
JAX47-SB101-05-112906	B610308-06RE1	9ADA008-0	01/09/07 21:28
JAX47-SB101-05-112906	B610308-06RE1	9ADB008-0	01/09/07 21:28
JAX47-SB102-05-112906	B610308-08RE1	9ADA009-0	01/09/07 21:54
JAX47-SB102-05-112906	B610308-08RE1	9ADB009-0	01/09/07 21:54
JAX47-SB103-05-112906	B610308-10RE1	9ADB010-0	01/09/07 22:19
JAX47-SB103-05-112906	B610308-10RE1	9ADA010-0	01/09/07 22:19
JAX47-SB104-05-112906	B610308-12RE1	9ADB011-0	01/09/07 22:45
JAX47-SB104-05-112906	B610308-12RE1	9ADA011-0	01/09/07 22:45
JAX47-SB112-05-112906	B610308-20RE1	9ADA012-0	01/09/07 23:11
JAX47-SB112-05-112906	B610308-20RE1	9ADB012-0	01/09/07 23:11
JAX47-SB103-01-112906	B610308-09RE1	9ADA013-0	01/09/07 23:37
JAX47-SB103-01-112906	B610308-09RE1	9ADB013-0	01/09/07 23:37
Calibration Check	BA00161-CCV2	9ADA014-0	01/10/07 00:03
Calibration Check	BA00161-CCV2	9ADB014-0	01/10/07 00:03
JAX47-SB104-01-112906	B610308-11RE1	9ADB015-0	01/10/07 00:29
JAX47-SB104-01-112906	B610308-11RE1	9ADA015-0	01/10/07 00:29
JAX47-SB108-06-112906	B610308-14RE2	9ADA016-0	01/10/07 00:54
JAX47-SB108-06-112906	B610308-14RE2	9ADB016-0	01/10/07 00:54
JAX47-SB109-06-112906	B610308-16RE1	9ADB017-0	01/10/07 01:20
JAX47-SB109-06-112906	B610308-16RE1	9ADA017-0	01/10/07 01:20
JAX47-SB101-01-112906	B610308-05RE1	9ADB018-0	01/10/07 01:46
JAX47-SB101-01-112906	B610308-05RE1	9ADA018-0	01/10/07 01:46

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00161	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB102-01-112906	B610308-07RE2	9ADB019-0	01/10/07 02:12
JAX47-SB102-01-112906	B610308-07RE2	9ADA019-0	01/10/07 02:12
JAX47-SB092-01-112906	B610308-01RE2	9ADB022-0	01/10/07 03:29
JAX47-SB092-01-112906	B610308-01RE2	9ADA022-0	01/10/07 03:29
JAX47-SB112-01-112906	B610308-19RE1	9ADB023-0	01/10/07 03:55
JAX47-SB112-01-112906	B610308-19RE1	9ADA023-0	01/10/07 03:55
JAX47-SB111-01-112906	B610308-17RE2	9ADA024-0	01/10/07 04:21
JAX47-SB111-01-112906	B610308-17RE2	9ADB024-0	01/10/07 04:21
Calibration Check	BA00161-CCV3	9ADA025-0	01/10/07 04:47
Calibration Check	BA00161-CCV3	9ADB025-0	01/10/07 04:47
Instrument Blank	BA00161-IBL2	9AEA001-0	01/10/07 12:22
Instrument Blank	BA00161-IBL2	9AEB001-0	01/10/07 12:22
Performance Mix	BA00161-PEM2	9AEA002-0	01/10/07 12:48
Performance Mix	BA00161-PEM2	9AEB002-0	01/10/07 12:48
Calibration Check	BA00161-CCV4	9AEB003-0	01/10/07 13:14
Calibration Check	BA00161-CCV4	9AEA003-0	01/10/07 13:14
JAX47-SB093-01-112906	B610308-03RE2	9AEA004-0	01/10/07 13:39
JAX47-SB093-01-112906	B610308-03RE2	9AEB004-0	01/10/07 13:39
JAX47-SB108-01-112906	B610308-13RE3	9AEA005-0	01/10/07 14:05
JAX47-SB108-01-112906	B610308-13RE3	9AEB005-0	01/10/07 14:05
JAX47-SB109-01-112906	B610308-15RE3	9AEA006-0	01/10/07 14:31
JAX47-SB109-01-112906	B610308-15RE3	9AEB006-0	01/10/07 14:31
Calibration Check	BA00161-CCV5	9AEB007-0	01/10/07 14:57
Calibration Check	BA00161-CCV5	9AEA007-0	01/10/07 14:57

OK

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/14/06
Lab Sample ID:	BA00092-CCV1	Injection Time:	22:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0943	7.280474E+07	6.86584E+07		-5.7	20
gamma-BHC	A	0.100	0.0933	6.465721E+07	6.02971E+07		-6.7	20
beta-BHC	A	0.100	0.0963	2.323065E+07	2.23667E+07		-3.7	20
delta-BHC	A	0.100	0.0978	5.66961E+07	5.54468E+07		-2.2	20
Heptachlor	A	0.100	0.0891	6.414063E+07	5.71259E+07		-10.9	20
Aldrin	A	0.100	0.0911	6.149162E+07	5.60341E+07		-8.9	20
Heptachlor epoxide	A	0.100	0.0889	5.405995E+07	4.80416E+07		-11.1	20
Chlordane-gamma	A	0.100	0.0898	5.527518E+07	4.96328E+07		-10.2	20
Chlordane-alpha	A	0.100	0.0890	5.296272E+07	4.71404E+07		-11.0	20
4,4'-DDE	A	0.100	0.0886	5.244698E+07	4.64899E+07		-11.4	20
Endosulfan I	A	0.100	0.0897	4.972951E+07	4.46053E+07		-10.3	20
Dieldrin	A	0.100	0.0901	5.436507E+07	4.89883E+07		-9.9	20
Endrin	A	0.100	0.0904	4.627937E+07	4.1843E+07		-9.6	20
4,4'-DDD	A	0.100	0.0896	4.00135E+07	3.58683E+07		-10.4	20
Endosulfan II	A	0.100	0.0899	4.442927E+07	3.99405E+07		-10.1	20
4,4'-DDT	A	0.100	0.0874	4.164772E+07	3.63799E+07		-12.6	20
Endrin aldehyde	A	0.100	0.0948	3.13612E+07	2.97202E+07		-5.2	20
Methoxychlor	A	0.100	0.0815	2.117353E+07	1.72667E+07		-18.5	20
Endosulfan sulfate	A	0.100	0.0944	3.673694E+07	3.46704E+07		-5.6	20
Endrin ketone	A	0.100	0.0902	4.568736E+07	4.11946E+07		-9.8	20
alpha-BHC [2C]	A	0.100	0.0970	7.552835E+07	7.32564E+07		-3.0	20
gamma-BHC [2C]	A	0.100	0.0959	6.719113E+07	6.44311E+07		-4.1	20
beta-BHC [2C]	A	0.100	0.100	2.472905E+07	2.47756E+07		0.2	20
delta-BHC [2C]	A	0.100	0.100	5.850208E+07	5.87617E+07		0.4	20
Heptachlor [2C]	A	0.100	0.0931	6.67268E+07	6.21379E+07		-6.9	20
Aldrin [2C]	A	0.100	0.0939	6.357242E+07	5.97042E+07		-6.1	20
Heptachlor epoxide [2C]	A	0.100	0.0916	5.626251E+07	5.15516E+07		-8.4	20
Chlordane-gamma [2C]	A	0.100	0.0925	5.722595E+07	5.2937E+07		-7.5	20
Chlordane-alpha [2C]	A	0.100	0.0917	5.472749E+07	5.02051E+07		-8.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/14/06
Lab Sample ID:	BA00092-CCV1	Injection Time:	22:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0928	5.341989E+07	4.95653E+07		-7.2	20
Endosulfan I [2C]	A	0.100	0.0921	5.087841E+07	4.68738E+07		-7.9	20
Dieldrin [2C]	A	0.100	0.0929	5.608619E+07	5.21248E+07		-7.1	20
Endrin [2C]	A	0.100	0.0933	4.605028E+07	4.29422E+07		-6.7	20
4,4'-DDD [2C]	A	0.100	0.0930	4.157866E+07	3.86694E+07		-7.0	20
Endosulfan II [2C]	A	0.100	0.0929	4.58875E+07	4.26126E+07		-7.1	20
4,4'-DDT [2C]	A	0.100	0.0902	4.184652E+07	3.77256E+07		-9.8	20
Endrin aldehyde [2C]	A	0.100	0.0981	3.232817E+07	3.17249E+07		-1.9	20
Methoxychlor [2C]	A	0.100	0.0849	2.018515E+07	1.71456E+07		-15.1	20
Endosulfan sulfate [2C]	A	0.100	0.0981	3.836149E+07	3.76174E+07		-1.9	20
Endrin ketone [2C]	A	0.100	0.0932	4.596086E+07	4.28409E+07		-6.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIA024-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/15/06
Lab Sample ID:	BA00092-CCV2	Injection Time:	02:55

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0972	7.280474E+07	7.07562E+07		-2.8	20
gamma-BHC	A	0.100	0.0956	6.465721E+07	6.18416E+07		-4.4	20
beta-BHC	A	0.100	0.0997	2.323065E+07	2.31625E+07		-0.3	20
delta-BHC	A	0.100	0.100	5.66961E+07	5.6722E+07		0.05	20
Heptachlor	A	0.100	0.0896	6.414063E+07	5.74889E+07		-10.4	20
Aldrin	A	0.100	0.0924	6.149162E+07	5.68315E+07		-7.6	20
Heptachlor epoxide	A	0.100	0.0899	5.405995E+07	4.85913E+07		-10.1	20
Chlordane-gamma	A	0.100	0.0906	5.527518E+07	5.01027E+07		-9.4	20
Chlordane-alpha	A	0.100	0.0897	5.296272E+07	4.7506E+07		-10.3	20
4,4'-DDE	A	0.100	0.0912	5.244698E+07	4.7838E+07		-8.8	20
Endosulfan I	A	0.100	0.0894	4.972951E+07	4.44513E+07		-10.6	20
Dieldrin	A	0.100	0.0907	5.436507E+07	4.92995E+07		-9.3	20
Endrin	A	0.100	0.0934	4.627937E+07	4.32321E+07		-6.6	20
4,4'-DDD	A	0.100	0.0988	4.00135E+07	3.95507E+07		-1.2	20
Endosulfan II	A	0.100	0.0903	4.442927E+07	4.01152E+07		-9.7	20
4,4'-DDT	A	0.100	0.0742	4.164772E+07	3.08892E+07		-25.8	20 *
Endrin aldehyde	A	0.100	0.0945	3.13612E+07	2.96295E+07		-5.5	20
Methoxychlor	A	0.100	0.0743	2.117353E+07	1.57418E+07		-25.7	20 *
Endosulfan sulfate	A	0.100	0.0928	3.673694E+07	3.40939E+07		-7.2	20
Endrin ketone	A	0.100	0.0888	4.568736E+07	4.05589E+07		-11.2	20
alpha-BHC [2C]	A	0.100	0.0998	7.552835E+07	7.53433E+07		-0.2	20
gamma-BHC [2C]	A	0.100	0.0988	6.719113E+07	6.63896E+07		-1.2	20
beta-BHC [2C]	A	0.100	0.103	2.472905E+07	2.55772E+07		3.4	20
delta-BHC [2C]	A	0.100	0.103	5.850208E+07	6.02906E+07		3.1	20
Heptachlor [2C]	A	0.100	0.0930	6.67268E+07	6.2027E+07		-7.0	20
Aldrin [2C]	A	0.100	0.0954	6.357242E+07	6.06731E+07		-4.6	20
Heptachlor epoxide [2C]	A	0.100	0.0924	5.626251E+07	5.20062E+07		-7.6	20
Chlordane-gamma [2C]	A	0.100	0.0939	5.722595E+07	5.37159E+07		-6.1	20
Chlordane-alpha [2C]	A	0.100	0.0924	5.472749E+07	5.05897E+07		-7.6	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIB024-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/15/06
Lab Sample ID:	BA00092-CCV2	Injection Time:	02:55

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0946	5.341989E+07	5.05482E+07		-5.4	20	
Endosulfan I [2C]	A	0.100	0.0926	5.087841E+07	4.71275E+07		-7.4	20	
Dieldrin [2C]	A	0.100	0.0934	5.608619E+07	5.23942E+07		-6.6	20	
Endrin [2C]	A	0.100	0.0973	4.605028E+07	4.47903E+07		-2.7	20	
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.24768E+07		2.2	20	
Endosulfan II [2C]	A	0.100	0.0944	4.58875E+07	4.33216E+07		-5.6	20	
4,4'-DDT [2C]	A	0.100	0.0767	4.184652E+07	3.20814E+07		-23.3	20	*
Endrin aldehyde [2C]	A	0.100	0.0973	3.232817E+07	3.14564E+07		-2.7	20	
Methoxychlor [2C]	A	0.100	0.0767	2.018515E+07	1.54822E+07		-23.3	20	*
Endosulfan sulfate [2C]	A	0.100	0.0960	3.836149E+07	3.68129E+07		-4.0	20	
Endrin ketone [2C]	A	0.100	0.0910	4.596086E+07	4.18453E+07		-9.0	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIA035-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/15/06
Lab Sample ID:	BA00092-CCV3	Injection Time:	07:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0968	7.280474E+07	7.04695E+07		-3.2	20	
gamma-BHC	A	0.100	0.0949	6.465721E+07	6.13585E+07		-5.1	20	
beta-BHC	A	0.100	0.0979	2.323065E+07	2.27403E+07		-2.1	20	
delta-BHC	A	0.100	0.0963	5.66961E+07	5.45733E+07		-3.7	20	
Heptachlor	A	0.100	0.0846	6.414063E+07	5.42554E+07		-15.4	20	
Aldrin	A	0.100	0.0903	6.149162E+07	5.55352E+07		-9.7	20	
Heptachlor epoxide	A	0.100	0.0875	5.405995E+07	4.73293E+07		-12.5	20	
Chlordane-gamma	A	0.100	0.0883	5.527518E+07	4.88004E+07		-11.7	20	
Chlordane-alpha	A	0.100	0.0869	5.296272E+07	4.60167E+07		-13.1	20	
4,4'-DDE	A	0.100	0.0892	5.244698E+07	4.67923E+07		-10.8	20	
Endosulfan I	A	0.100	0.0869	4.972951E+07	4.31958E+07		-13.1	20	
Dieldrin	A	0.100	0.0882	5.436507E+07	4.79332E+07		-11.8	20	
Endrin	A	0.100	0.0894	4.627937E+07	4.13609E+07		-10.6	20	
4,4'-DDD	A	0.100	0.105	4.00135E+07	4.18807E+07		4.7	20	
Endosulfan II	A	0.100	0.0869	4.442927E+07	3.86257E+07		-13.1	20	
4,4'-DDT	A	0.100	0.0585	4.164772E+07	2.4359E+07		-41.5	20	*
Endrin aldehyde	A	0.100	0.0893	3.13612E+07	2.79996E+07		-10.7	20	
Methoxychlor	A	0.100	0.0620	2.117353E+07	1.31324E+07		-38.0	20	*
Endosulfan sulfate	A	0.100	0.0869	3.673694E+07	3.19152E+07		-13.1	20	
Endrin ketone	A	0.100	0.0841	4.568736E+07	3.84429E+07		-15.9	20	
alpha-BHC [2C]	A	0.100	0.0987	7.552835E+07	7.45596E+07		-1.3	20	
gamma-BHC [2C]	A	0.100	0.0973	6.719113E+07	6.54E+07		-2.7	20	
beta-BHC [2C]	A	0.100	0.102	2.472905E+07	2.51073E+07		1.5	20	
delta-BHC [2C]	A	0.100	0.0985	5.850208E+07	5.76263E+07		-1.5	20	
Heptachlor [2C]	A	0.100	0.0878	6.67268E+07	5.85569E+07		-12.2	20	
Aldrin [2C]	A	0.100	0.0934	6.357242E+07	5.93698E+07		-6.6	20	
Heptachlor epoxide [2C]	A	0.100	0.0900	5.626251E+07	5.06587E+07		-10.0	20	
Chlordane-gamma [2C]	A	0.100	0.0910	5.722595E+07	5.2054E+07		-9.0	20	
Chlordane-alpha [2C]	A	0.100	0.0894	5.472749E+07	4.89207E+07		-10.6	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIB035-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/15/06
Lab Sample ID:	BA00092-CCV3	Injection Time:	07:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0917	5.341989E+07	4.90013E+07		-8.3	20	
Endosulfan I [2C]	A	0.100	0.0895	5.087841E+07	4.55605E+07		-10.5	20	
Dieldrin [2C]	A	0.100	0.0904	5.608619E+07	5.06893E+07		-9.6	20	
Endrin [2C]	A	0.100	0.0926	4.605028E+07	4.26461E+07		-7.4	20	
4,4'-DDD [2C]	A	0.100	0.106	4.157866E+07	4.42226E+07		6.4	20	
Endosulfan II [2C]	A	0.100	0.0909	4.58875E+07	4.17003E+07		-9.1	20	
4,4'-DDT [2C]	A	0.100	0.0604	4.184652E+07	2.52645E+07		-39.6	20	*
Endrin aldehyde [2C]	A	0.100	0.0906	3.232817E+07	2.9305E+07		-9.4	20	
Methoxychlor [2C]	A	0.100	0.0641	2.018515E+07	1.29316E+07		-35.9	20	*
Endosulfan sulfate [2C]	A	0.100	0.0894	3.836149E+07	3.43079E+07		-10.6	20	
Endrin ketone [2C]	A	0.100	0.0855	4.596086E+07	3.93055E+07		-14.5	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIA040-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/15/06
Lab Sample ID:	BA00092-CCV4	Injection Time:	09:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0988	7.280474E+07	7.19393E+07		-1.2	20	
gamma-BHC	A	0.100	0.0971	6.465721E+07	6.27723E+07		-2.9	20	
beta-BHC	A	0.100	0.101	2.323065E+07	2.34252E+07		0.8	20	
delta-BHC	A	0.100	0.0976	5.66961E+07	5.53255E+07		-2.4	20	
Heptachlor	A	0.100	0.0856	6.414063E+07	5.49324E+07		-14.4	20	
Aldrin	A	0.100	0.0937	6.149162E+07	5.76335E+07		-6.3	20	
Heptachlor epoxide	A	0.100	0.0904	5.405995E+07	4.88682E+07		-9.6	20	
Chlordane-gamma	A	0.100	0.0916	5.527518E+07	5.06517E+07		-8.4	20	
Chlordane-alpha	A	0.100	0.0899	5.296272E+07	4.76339E+07		-10.1	20	
4,4′-DDE	A	0.100	0.0923	5.244698E+07	4.84038E+07		-7.7	20	
Endosulfan I	A	0.100	0.0893	4.972951E+07	4.44121E+07		-10.7	20	
Dieldrin	A	0.100	0.0907	5.436507E+07	4.93094E+07		-9.3	20	
Endrin	A	0.100	0.0910	4.627937E+07	4.21023E+07		-9.0	20	
4,4′-DDD	A	0.100	0.111	4.00135E+07	4.43964E+07		11.0	20	
Endosulfan II	A	0.100	0.0895	4.442927E+07	3.97774E+07		-10.5	20	
4,4′-DDT	A	0.100	0.0545	4.164772E+07	2.27006E+07		-45.5	20	*
Endrin aldehyde	A	0.100	0.0924	3.13612E+07	2.89842E+07		-7.6	20	
Methoxychlor	A	0.100	0.0579	2.117353E+07	1.22624E+07		-42.1	20	*
Endosulfan sulfate	A	0.100	0.0875	3.673694E+07	3.21472E+07		-12.5	20	
Endrin ketone	A	0.100	0.0843	4.568736E+07	3.85237E+07		-15.7	20	
alpha-BHC [2C]	A	0.100	0.100	7.552835E+07	7.55796E+07		0.07	20	
gamma-BHC [2C]	A	0.100	0.0989	6.719113E+07	6.64282E+07		-1.1	20	
beta-BHC [2C]	A	0.100	0.104	2.472905E+07	2.57287E+07		4.0	20	
delta-BHC [2C]	A	0.100	0.0993	5.850208E+07	5.808E+07		-0.7	20	
Heptachlor [2C]	A	0.100	0.0885	6.67268E+07	5.90701E+07		-11.5	20	
Aldrin [2C]	A	0.100	0.0961	6.357242E+07	6.10653E+07		-3.9	20	
Heptachlor epoxide [2C]	A	0.100	0.0919	5.626251E+07	5.17292E+07		-8.1	20	
Chlordane-gamma [2C]	A	0.100	0.0936	5.722595E+07	5.35685E+07		-6.4	20	
Chlordane-alpha [2C]	A	0.100	0.0922	5.472749E+07	5.04641E+07		-7.8	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIB040-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/15/06
Lab Sample ID:	BA00092-CCV4	Injection Time:	09:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0947	5.341989E+07	5.05689E+07		-5.3	20	
Endosulfan I [2C]	A	0.100	0.0921	5.087841E+07	4.6877E+07		-7.9	20	
Dieldrin [2C]	A	0.100	0.0929	5.608619E+07	5.20887E+07		-7.1	20	
Endrin [2C]	A	0.100	0.0941	4.605028E+07	4.33523E+07		-5.9	20	
4,4'-DDD [2C]	A	0.100	0.113	4.157866E+07	4.71514E+07		13.4	20	
Endosulfan II [2C]	A	0.100	0.0948	4.58875E+07	4.35072E+07		-5.2	20	
4,4'-DDT [2C]	A	0.100	0.0565	4.184652E+07	2.36363E+07		-43.5	20	*
Endrin aldehyde [2C]	A	0.100	0.0955	3.232817E+07	3.08788E+07		-4.5	20	
Methoxychlor [2C]	A	0.100	0.0597	2.018515E+07	1.20533E+07		-40.3	20	*
Endosulfan sulfate [2C]	A	0.100	0.0906	3.836149E+07	3.47662E+07		-9.4	20	
Endrin ketone [2C]	A	0.100	0.0864	4.596086E+07	3.97317E+07		-13.6	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV1	Injection Time:	11:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0878	7.280474E+07	6.39148E+07		-12.2	20
gamma-BHC	A	0.100	0.0878	6.465721E+07	5.68009E+07		-12.2	20
beta-BHC	A	0.100	0.0911	2.323065E+07	2.1159E+07		-8.9	20
delta-BHC	A	0.100	0.0857	5.66961E+07	4.85966E+07		-14.3	20
Heptachlor	A	0.100	0.0876	6.414063E+07	5.61711E+07		-12.4	20
Aldrin	A	0.100	0.0864	6.149162E+07	5.31512E+07		-13.6	20
Heptachlor epoxide	A	0.100	0.0877	5.405995E+07	4.73864E+07		-12.3	20
Chlordane-gamma	A	0.100	0.0853	5.527518E+07	4.71511E+07		-14.7	20
Chlordane-alpha	A	0.100	0.0888	5.296272E+07	4.70087E+07		-11.2	20
4,4'-DDE	A	0.100	0.0881	5.244698E+07	4.61932E+07		-11.9	20
Endosulfan I	A	0.100	0.0862	4.972951E+07	4.2891E+07		-13.8	20
Dieldrin	A	0.100	0.0884	5.436507E+07	4.80431E+07		-11.6	20
Endrin	A	0.100	0.0932	4.627937E+07	4.31322E+07		-6.8	20
4,4'-DDD	A	0.100	0.0898	4.00135E+07	3.59511E+07		-10.2	20
Endosulfan II	A	0.100	0.0871	4.442927E+07	3.8718E+07		-12.9	20
4,4'-DDT	A	0.100	0.0844	4.164772E+07	3.51372E+07		-15.6	20
Endrin aldehyde	A	0.100	0.0880	3.13612E+07	2.75854E+07		-12.0	20
Methoxychlor	A	0.100	0.0862	2.117353E+07	1.82442E+07		-13.8	20
Endosulfan sulfate	A	0.100	0.0872	3.673694E+07	3.20484E+07		-12.8	20
Endrin ketone	A	0.100	0.0818	4.568736E+07	3.73513E+07		-18.2	20
alpha-BHC [2C]	A	0.100	0.0842	7.552835E+07	6.36054E+07		-15.8	20
gamma-BHC [2C]	A	0.100	0.0817	6.719113E+07	5.48947E+07		-18.3	20
beta-BHC [2C]	A	0.100	0.0849	2.472905E+07	2.09939E+07		-15.1	20
delta-BHC [2C]	A	0.100	0.0803	5.850208E+07	4.69584E+07		-19.7	20
Heptachlor [2C]	A	0.100	0.0816	6.67268E+07	5.44735E+07		-18.4	20
Aldrin [2C]	A	0.100	0.0845	6.357242E+07	5.37178E+07		-15.5	20
Heptachlor epoxide [2C]	A	0.100	0.0818	5.626251E+07	4.60264E+07		-18.2	20
Chlordane-gamma [2C]	A	0.100	0.0830	5.722595E+07	4.74716E+07		-17.0	20
Chlordane-alpha [2C]	A	0.100	0.0826	5.472749E+07	4.52075E+07		-17.4	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV1	Injection Time:	11:59

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0863	5.341989E+07	4.6076E+07		-13.7	20
Endosulfan I [2C]	A	0.100	0.0886	5.087841E+07	4.50699E+07		-11.4	20
Dieldrin [2C]	A	0.100	0.0863	5.608619E+07	4.83878E+07		-13.7	20
Endrin [2C]	A	0.100	0.0925	4.605028E+07	4.2604E+07		-7.5	20
4,4'-DDD [2C]	A	0.100	0.0884	4.157866E+07	3.67359E+07		-11.6	20
Endosulfan II [2C]	A	0.100	0.0865	4.58875E+07	3.96779E+07		-13.5	20
4,4'-DDT [2C]	A	0.100	0.0830	4.184652E+07	3.47485E+07		-17.0	20
Endrin aldehyde [2C]	A	0.100	0.0896	3.232817E+07	2.89568E+07		-10.4	20
Methoxychlor [2C]	A	0.100	0.0866	2.018515E+07	1.74848E+07		-13.4	20
Endosulfan sulfate [2C]	A	0.100	0.0873	3.836149E+07	3.34746E+07		-12.7	20
Endrin ketone [2C]	A	0.100	0.0799	4.596086E+07	3.6736E+07		-20.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV2	Injection Time:	16:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0920	7.280474E+07	6.69491E+07		-8.0	20
gamma-BHC	A	0.100	0.0909	6.465721E+07	5.88032E+07		-9.1	20
beta-BHC	A	0.100	0.0946	2.323065E+07	2.19685E+07		-5.4	20
delta-BHC	A	0.100	0.0935	5.66961E+07	5.30239E+07		-6.5	20
Heptachlor	A	0.100	0.0891	6.414063E+07	5.71192E+07		-10.9	20
Aldrin	A	0.100	0.0878	6.149162E+07	5.39983E+07		-12.2	20
Heptachlor epoxide	A	0.100	0.0886	5.405995E+07	4.7878E+07		-11.4	20
Chlordane-gamma	A	0.100	0.0865	5.527518E+07	4.78303E+07		-13.5	20
Chlordane-alpha	A	0.100	0.0859	5.296272E+07	4.5488E+07		-14.1	20
4,4'-DDE	A	0.100	0.0891	5.244698E+07	4.67156E+07		-10.9	20
Endosulfan I	A	0.100	0.0877	4.972951E+07	4.36098E+07		-12.3	20
Dieldrin	A	0.100	0.0893	5.436507E+07	4.8559E+07		-10.7	20
Endrin	A	0.100	0.0946	4.627937E+07	4.37989E+07		-5.4	20
4,4'-DDD	A	0.100	0.0895	4.00135E+07	3.58214E+07		-10.5	20
Endosulfan II	A	0.100	0.0861	4.442927E+07	3.82695E+07		-13.9	20
4,4'-DDT	A	0.100	0.0838	4.164772E+07	3.48838E+07		-16.2	20
Endrin aldehyde	A	0.100	0.0923	3.13612E+07	2.89476E+07		-7.7	20
Methoxychlor	A	0.100	0.0852	2.117353E+07	1.80302E+07		-14.8	20
Endosulfan sulfate	A	0.100	0.0944	3.673694E+07	3.46672E+07		-5.6	20
Endrin ketone	A	0.100	0.0869	4.568736E+07	3.97032E+07		-13.1	20
alpha-BHC [2C]	A	0.100	0.0911	7.552835E+07	6.88314E+07		-8.9	20
gamma-BHC [2C]	A	0.100	0.0902	6.719113E+07	6.06255E+07		-9.8	20
beta-BHC [2C]	A	0.100	0.0935	2.472905E+07	2.31295E+07		-6.5	20
delta-BHC [2C]	A	0.100	0.0868	5.850208E+07	5.07693E+07		-13.2	20
Heptachlor [2C]	A	0.100	0.0838	6.67268E+07	5.59353E+07		-16.2	20
Aldrin [2C]	A	0.100	0.0877	6.357242E+07	5.57535E+07		-12.3	20
Heptachlor epoxide [2C]	A	0.100	0.0819	5.626251E+07	4.60595E+07		-18.1	20
Chlordane-gamma [2C]	A	0.100	0.0846	5.722595E+07	4.84389E+07		-15.4	20
Chlordane-alpha [2C]	A	0.100	0.0845	5.472749E+07	4.62558E+07		-15.5	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV2	Injection Time:	16:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0888	5.341989E+07	4.74223E+07		-11.2	20
Endosulfan I [2C]	A	0.100	0.0866	5.087841E+07	4.40416E+07		-13.4	20
Dieldrin [2C]	A	0.100	0.0880	5.608619E+07	4.93447E+07		-12.0	20
Endrin [2C]	A	0.100	0.0944	4.605028E+07	4.34611E+07		-5.6	20
4,4'-DDD [2C]	A	0.100	0.0902	4.157866E+07	3.7523E+07		-9.8	20
Endosulfan II [2C]	A	0.100	0.0831	4.58875E+07	3.81321E+07		-16.9	20
4,4'-DDT [2C]	A	0.100	0.0802	4.184652E+07	3.35788E+07		-19.8	20
Endrin aldehyde [2C]	A	0.100	0.0917	3.232817E+07	2.96325E+07		-8.3	20
Methoxychlor [2C]	A	0.100	0.0857	2.018515E+07	1.73014E+07		-14.3	20
Endosulfan sulfate [2C]	A	0.100	0.0927	3.836149E+07	3.55683E+07		-7.3	20
Endrin ketone [2C]	A	0.100	0.0844	4.596086E+07	3.87998E+07		-15.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA017-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV3	Injection Time:	18:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0998	7.280474E+07	7.26927E+07		-0.2	20
gamma-BHC	A	0.100	0.0985	6.465721E+07	6.36725E+07		-1.5	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.36958E+07		2.0	20
delta-BHC	A	0.100	0.101	5.66961E+07	5.71913E+07		0.9	20
Heptachlor	A	0.100	0.0937	6.414063E+07	6.00972E+07		-6.3	20
Aldrin	A	0.100	0.0937	6.149162E+07	5.75949E+07		-6.3	20
Heptachlor epoxide	A	0.100	0.0939	5.405995E+07	5.0782E+07		-6.1	20
Chlordane-gamma	A	0.100	0.0921	5.527518E+07	5.08952E+07		-7.9	20
Chlordane-alpha	A	0.100	0.0895	5.296272E+07	4.7421E+07		-10.5	20
4,4'-DDE	A	0.100	0.0940	5.244698E+07	4.92839E+07		-6.0	20
Endosulfan I	A	0.100	0.0921	4.972951E+07	4.57925E+07		-7.9	20
Dieldrin	A	0.100	0.0941	5.436507E+07	5.11425E+07		-5.9	20
Endrin	A	0.100	0.0997	4.627937E+07	4.61288E+07		-0.3	20
4,4'-DDD	A	0.100	0.102	4.00135E+07	4.06248E+07		1.5	20
Endosulfan II	A	0.100	0.0931	4.442927E+07	4.13472E+07		-6.9	20
4,4'-DDT	A	0.100	0.0801	4.164772E+07	3.33519E+07		-19.9	20
Endrin aldehyde	A	0.100	0.0953	3.13612E+07	2.98872E+07		-4.7	20
Methoxychlor	A	0.100	0.0849	2.117353E+07	1.79786E+07		-15.1	20
Endosulfan sulfate	A	0.100	0.0959	3.673694E+07	3.5235E+07		-4.1	20
Endrin ketone	A	0.100	0.0915	4.568736E+07	4.18219E+07		-8.5	20
alpha-BHC [2C]	A	0.100	0.0989	7.552835E+07	7.4704E+07		-1.1	20
gamma-BHC [2C]	A	0.100	0.0979	6.719113E+07	6.57657E+07		-2.1	20
beta-BHC [2C]	A	0.100	0.102	2.472905E+07	2.53531E+07		2.5	20
delta-BHC [2C]	A	0.100	0.0950	5.850208E+07	5.55606E+07		-5.0	20
Heptachlor [2C]	A	0.100	0.0895	6.67268E+07	5.97157E+07		-10.5	20
Aldrin [2C]	A	0.100	0.0940	6.357242E+07	5.97562E+07		-6.0	20
Heptachlor epoxide [2C]	A	0.100	0.0881	5.626251E+07	4.95668E+07		-11.9	20
Chlordane-gamma [2C]	A	0.100	0.0904	5.722595E+07	5.17417E+07		-9.6	20
Chlordane-alpha [2C]	A	0.100	0.0890	5.472749E+07	4.87029E+07		-11.0	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB017-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV3	Injection Time:	18:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0930	5.341989E+07	4.96598E+07		-7.0	20
Endosulfan I [2C]	A	0.100	0.0912	5.087841E+07	4.63984E+07		-8.8	20
Dieldrin [2C]	A	0.100	0.0904	5.608619E+07	5.07147E+07		-9.6	20
Endrin [2C]	A	0.100	0.0966	4.605028E+07	4.44949E+07		-3.4	20
4,4'-DDD [2C]	A	0.100	0.0981	4.157866E+07	4.07924E+07		-1.9	20
Endosulfan II [2C]	A	0.100	0.0913	4.58875E+07	4.18846E+07		-8.7	20
4,4'-DDT [2C]	A	0.100	0.0777	4.184652E+07	3.25352E+07		-22.3	20 *
Endrin aldehyde [2C]	A	0.100	0.0920	3.232817E+07	2.9732E+07		-8.0	20
Methoxychlor [2C]	A	0.100	0.0840	2.018515E+07	1.69607E+07		-16.0	20
Endosulfan sulfate [2C]	A	0.100	0.0944	3.836149E+07	3.62237E+07		-5.6	20
Endrin ketone [2C]	A	0.100	0.0880	4.596086E+07	4.04471E+07		-12.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/21/06
Lab Sample ID:	BA00092-CCV5	Injection Time:	14:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0912	7.280474E+07	6.63914E+07		-8.8	20
gamma-BHC	A	0.100	0.0919	6.465721E+07	5.93915E+07		-8.1	20
beta-BHC	A	0.100	0.0951	2.323065E+07	2.2099E+07		-4.9	20
delta-BHC	A	0.100	0.0950	5.66961E+07	5.38602E+07		-5.0	20
Heptachlor	A	0.100	0.0882	6.414063E+07	5.65903E+07		-11.8	20
Aldrin	A	0.100	0.0902	6.149162E+07	5.54877E+07		-9.8	20
Heptachlor epoxide	A	0.100	0.0895	5.405995E+07	4.8371E+07		-10.5	20
Chlordane-gamma	A	0.100	0.0903	5.527518E+07	4.98892E+07		-9.7	20
Chlordane-alpha	A	0.100	0.0896	5.296272E+07	4.74796E+07		-10.4	20
4,4'-DDE	A	0.100	0.0893	5.244698E+07	4.6834E+07		-10.7	20
Endosulfan I	A	0.100	0.0899	4.972951E+07	4.46949E+07		-10.1	20
Dieldrin	A	0.100	0.0905	5.436507E+07	4.91974E+07		-9.5	20
Endrin	A	0.100	0.0843	4.627937E+07	3.90356E+07		-15.7	20
4,4'-DDD	A	0.100	0.0952	4.00135E+07	3.81086E+07		-4.8	20
Endosulfan II	A	0.100	0.0899	4.442927E+07	3.99262E+07		-10.1	20
4,4'-DDT	A	0.100	0.0920	4.164772E+07	3.82988E+07		-8.0	20
Endrin aldehyde	A	0.100	0.0997	3.13612E+07	3.12676E+07		-0.3	20
Methoxychlor	A	0.100	0.0839	2.117353E+07	1.77723E+07		-16.1	20
Endosulfan sulfate	A	0.100	0.0926	3.673694E+07	3.40169E+07		-7.4	20
Endrin ketone	A	0.100	0.0907	4.568736E+07	4.14273E+07		-9.3	20
alpha-BHC [2C]	A	0.100	0.0914	7.552835E+07	6.90481E+07		-8.6	20
gamma-BHC [2C]	A	0.100	0.0916	6.719113E+07	6.15246E+07		-8.4	20
beta-BHC [2C]	A	0.100	0.0961	2.472905E+07	2.3759E+07		-3.9	20
delta-BHC [2C]	A	0.100	0.0960	5.850208E+07	5.61754E+07		-4.0	20
Heptachlor [2C]	A	0.100	0.0889	6.67268E+07	5.93058E+07		-11.1	20
Aldrin [2C]	A	0.100	0.0906	6.357242E+07	5.75852E+07		-9.4	20
Heptachlor epoxide [2C]	A	0.100	0.0898	5.626251E+07	5.05469E+07		-10.2	20
Chlordane-gamma [2C]	A	0.100	0.0907	5.722595E+07	5.1909E+07		-9.3	20
Chlordane-alpha [2C]	A	0.100	0.0891	5.472749E+07	4.87576E+07		-10.9	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/21/06
Lab Sample ID:	BA00092-CCV5	Injection Time:	14:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0912	5.341989E+07	4.87113E+07		-8.8	20
Endosulfan I [2C]	A	0.100	0.0900	5.087841E+07	4.57937E+07		-10.0	20
Dieldrin [2C]	A	0.100	0.0910	5.608619E+07	5.10451E+07		-9.0	20
Endrin [2C]	A	0.100	0.0853	4.605028E+07	3.92685E+07		-14.7	20
4,4'-DDD [2C]	A	0.100	0.0951	4.157866E+07	3.95321E+07		-4.9	20
Endosulfan II [2C]	A	0.100	0.0918	4.58875E+07	4.21459E+07		-8.2	20
4,4'-DDT [2C]	A	0.100	0.0935	4.184652E+07	3.9115E+07		-6.5	20
Endrin aldehyde [2C]	A	0.100	0.102	3.232817E+07	3.28429E+07		1.6	20
Methoxychlor [2C]	A	0.100	0.0863	2.018515E+07	1.74176E+07		-13.7	20
Endosulfan sulfate [2C]	A	0.100	0.0948	3.836149E+07	3.63569E+07		-5.2	20
Endrin ketone [2C]	A	0.100	0.0924	4.596086E+07	4.24734E+07		-7.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/21/06
Lab Sample ID:	BA00092-CCV6	Injection Time:	18:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0995	7.280474E+07	7.24684E+07		-0.5	20
gamma-BHC	A	0.100	0.0994	6.465721E+07	6.42954E+07		-0.6	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.37442E+07		2.2	20
delta-BHC	A	0.100	0.102	5.66961E+07	5.75709E+07		1.5	20
Heptachlor	A	0.100	0.0935	6.414063E+07	5.99803E+07		-6.5	20
Aldrin	A	0.100	0.0958	6.149162E+07	5.89089E+07		-4.2	20
Heptachlor epoxide	A	0.100	0.0934	5.405995E+07	5.05089E+07		-6.6	20
Chlordane-gamma	A	0.100	0.0957	5.527518E+07	5.28737E+07		-4.3	20
Chlordane-alpha	A	0.100	0.0947	5.296272E+07	5.01592E+07		-5.3	20
4,4'-DDE	A	0.100	0.0953	5.244698E+07	4.99731E+07		-4.7	20
Endosulfan I	A	0.100	0.0943	4.972951E+07	4.69184E+07		-5.7	20
Dieldrin	A	0.100	0.0944	5.436507E+07	5.13247E+07		-5.6	20
Endrin	A	0.100	0.0958	4.627937E+07	4.43146E+07		-4.2	20
4,4'-DDD	A	0.100	0.0987	4.00135E+07	3.95028E+07		-1.3	20
Endosulfan II	A	0.100	0.0939	4.442927E+07	4.17368E+07		-6.1	20
4,4'-DDT	A	0.100	0.103	4.164772E+07	4.27844E+07		2.7	20
Endrin aldehyde	A	0.100	0.0991	3.13612E+07	3.10814E+07		-0.9	20
Methoxychlor	A	0.100	0.0859	2.117353E+07	1.81971E+07		-14.1	20
Endosulfan sulfate	A	0.100	0.0975	3.673694E+07	3.58147E+07		-2.5	20
Endrin ketone	A	0.100	0.0924	4.568736E+07	4.21933E+07		-7.6	20
alpha-BHC [2C]	A	0.100	0.0998	7.552835E+07	7.53869E+07		-0.2	20
gamma-BHC [2C]	A	0.100	0.0996	6.719113E+07	6.69074E+07		-0.4	20
beta-BHC [2C]	A	0.100	0.104	2.472905E+07	2.57474E+07		4.1	20
delta-BHC [2C]	A	0.100	0.105	5.850208E+07	6.13507E+07		4.9	20
Heptachlor [2C]	A	0.100	0.0962	6.67268E+07	6.41832E+07		-3.8	20
Aldrin [2C]	A	0.100	0.0974	6.357242E+07	6.19385E+07		-2.6	20
Heptachlor epoxide [2C]	A	0.100	0.0949	5.626251E+07	5.33746E+07		-5.1	20
Chlordane-gamma [2C]	A	0.100	0.0979	5.722595E+07	5.60462E+07		-2.1	20
Chlordane-alpha [2C]	A	0.100	0.0959	5.472749E+07	5.24934E+07		-4.1	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/21/06
Lab Sample ID:	BA00092-CCV6	Injection Time:	18:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0981	5.341989E+07	5.24277E+07		-1.9	20
Endosulfan I [2C]	A	0.100	0.0955	5.087841E+07	4.85877E+07		-4.5	20
Dieldrin [2C]	A	0.100	0.0960	5.608619E+07	5.38447E+07		-4.0	20
Endrin [2C]	A	0.100	0.0976	4.605028E+07	4.49322E+07		-2.4	20
4,4'-DDD [2C]	A	0.100	0.100	4.157866E+07	4.17543E+07		0.4	20
Endosulfan II [2C]	A	0.100	0.0961	4.58875E+07	4.41121E+07		-3.9	20
4,4'-DDT [2C]	A	0.100	0.105	4.184652E+07	4.37775E+07		4.6	20
Endrin aldehyde [2C]	A	0.100	0.101	3.232817E+07	3.26986E+07		1.1	20
Methoxychlor [2C]	A	0.100	0.0882	2.018515E+07	1.77936E+07		-11.8	20
Endosulfan sulfate [2C]	A	0.100	0.0998	3.836149E+07	3.82808E+07		-0.2	20
Endrin ketone [2C]	A	0.100	0.0937	4.596086E+07	4.30459E+07		-6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/22/06
Lab Sample ID:	BA00092-CCV7	Injection Time:	11:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.100	7.280474E+07	7.30605E+07		0.4	20
gamma-BHC	A	0.100	0.102	6.465721E+07	6.56409E+07		1.5	20
beta-BHC	A	0.100	0.104	2.323065E+07	2.41756E+07		4.1	20
delta-BHC	A	0.100	0.103	5.66961E+07	5.85231E+07		3.2	20
Heptachlor	A	0.100	0.0968	6.414063E+07	6.20942E+07		-3.2	20
Aldrin	A	0.100	0.0991	6.149162E+07	6.09435E+07		-0.9	20
Heptachlor epoxide	A	0.100	0.0980	5.405995E+07	5.29555E+07		-2.0	20
Chlordane-gamma	A	0.100	0.0992	5.527518E+07	5.4859E+07		-0.8	20
Chlordane-alpha	A	0.100	0.0983	5.296272E+07	5.20363E+07		-1.7	20
4,4'-DDE	A	0.100	0.0973	5.244698E+07	5.10081E+07		-2.7	20
Endosulfan I	A	0.100	0.0989	4.972951E+07	4.91839E+07		-1.1	20
Dieldrin	A	0.100	0.0991	5.436507E+07	5.38587E+07		-0.9	20
Endrin	A	0.100	0.0973	4.627937E+07	4.50303E+07		-2.7	20
4,4'-DDD	A	0.100	0.101	4.00135E+07	4.05365E+07		1.3	20
Endosulfan II	A	0.100	0.0998	4.442927E+07	4.43586E+07		-0.2	20
4,4'-DDT	A	0.100	0.102	4.164772E+07	4.22823E+07		1.5	20
Endrin aldehyde	A	0.100	0.109	3.13612E+07	3.43222E+07		9.4	20
Methoxychlor	A	0.100	0.0914	2.117353E+07	1.93499E+07		-8.6	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.73012E+07		1.5	20
Endrin ketone	A	0.100	0.0998	4.568736E+07	4.55777E+07		-0.2	20
alpha-BHC [2C]	A	0.100	0.0989	7.552835E+07	7.4701E+07		-1.1	20
gamma-BHC [2C]	A	0.100	0.0990	6.719113E+07	6.64871E+07		-1.0	20
beta-BHC [2C]	A	0.100	0.104	2.472905E+07	2.56209E+07		3.6	20
delta-BHC [2C]	A	0.100	0.102	5.850208E+07	5.96468E+07		2.0	20
Heptachlor [2C]	A	0.100	0.0966	6.67268E+07	6.44377E+07		-3.4	20
Aldrin [2C]	A	0.100	0.0978	6.357242E+07	6.21915E+07		-2.2	20
Heptachlor epoxide [2C]	A	0.100	0.0966	5.626251E+07	5.43259E+07		-3.4	20
Chlordane-gamma [2C]	A	0.100	0.0985	5.722595E+07	5.63843E+07		-1.5	20
Chlordane-alpha [2C]	A	0.100	0.0966	5.472749E+07	5.28614E+07		-3.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/22/06
Lab Sample ID:	BA00092-CCV7	Injection Time:	11:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0986	5.341989E+07	5.26863E+07		-1.4	20
Endosulfan I [2C]	A	0.100	0.0974	5.087841E+07	4.95517E+07		-2.6	20
Dieldrin [2C]	A	0.100	0.0985	5.608619E+07	5.52459E+07		-1.5	20
Endrin [2C]	A	0.100	0.0969	4.605028E+07	4.46059E+07		-3.1	20
4,4'-DDD [2C]	A	0.100	0.100	4.157866E+07	4.16826E+07		0.2	20
Endosulfan II [2C]	A	0.100	0.0992	4.58875E+07	4.5501E+07		-0.8	20
4,4'-DDT [2C]	A	0.100	0.102	4.184652E+07	4.27056E+07		2.1	20
Endrin aldehyde [2C]	A	0.100	0.110	3.232817E+07	3.54942E+07		9.8	20
Methoxychlor [2C]	A	0.100	0.0919	2.018515E+07	1.85538E+07		-8.1	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.836149E+07	3.90045E+07		1.7	20
Endrin ketone [2C]	A	0.100	0.100	4.596086E+07	4.61588E+07		0.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/22/06
Lab Sample ID:	BA00092-CCV8	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.106	7.280474E+07	7.68885E+07		5.6	20
gamma-BHC	A	0.100	0.106	6.465721E+07	6.84021E+07		5.8	20
beta-BHC	A	0.100	0.108	2.323065E+07	2.51638E+07		8.3	20
delta-BHC	A	0.100	0.107	5.66961E+07	6.09052E+07		7.4	20
Heptachlor	A	0.100	0.0984	6.414063E+07	6.31121E+07		-1.6	20
Aldrin	A	0.100	0.102	6.149162E+07	6.28457E+07		2.2	20
Heptachlor epoxide	A	0.100	0.0988	5.405995E+07	5.34168E+07		-1.2	20
Chlordane-gamma	A	0.100	0.102	5.527518E+07	5.62541E+07		1.8	20
Chlordane-alpha	A	0.100	0.102	5.296272E+07	5.37942E+07		1.6	20
4,4'-DDE	A	0.100	0.0987	5.244698E+07	5.1753E+07		-1.3	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.04107E+07		1.4	20
Dieldrin	A	0.100	0.100	5.436507E+07	5.45375E+07		0.3	20
Endrin	A	0.100	0.102	4.627937E+07	4.71379E+07		1.9	20
4,4'-DDD	A	0.100	0.0999	4.00135E+07	3.99588E+07		-0.1	20
Endosulfan II	A	0.100	0.0995	4.442927E+07	4.42009E+07		-0.5	20
4,4'-DDT	A	0.100	0.100	4.164772E+07	4.17831E+07		0.3	20
Endrin aldehyde	A	0.100	0.106	3.13612E+07	3.30975E+07		5.5	20
Methoxychlor	A	0.100	0.0900	2.117353E+07	1.90556E+07		-10.0	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.73148E+07		1.6	20
Endrin ketone	A	0.100	0.0974	4.568736E+07	4.45066E+07		-2.6	20
alpha-BHC [2C]	A	0.100	0.106	7.552835E+07	8.01853E+07		6.2	20
gamma-BHC [2C]	A	0.100	0.106	6.719113E+07	7.14683E+07		6.4	20
beta-BHC [2C]	A	0.100	0.111	2.472905E+07	2.74034E+07		10.8	20
delta-BHC [2C]	A	0.100	0.110	5.850208E+07	6.4283E+07		9.9	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.84272E+07		2.5	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.62091E+07		4.1	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.66261E+07		0.6	20
Chlordane-gamma [2C]	A	0.100	0.105	5.722595E+07	6.0018E+07		4.9	20
Chlordane-alpha [2C]	A	0.100	0.103	5.472749E+07	5.61833E+07		2.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00092	Injection Date:	12/22/06
Lab Sample ID:	BA00092-CCV8	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.104	5.341989E+07	5.53691E+07		3.6	20
Endosulfan I [2C]	A	0.100	0.102	5.087841E+07	5.17736E+07		1.8	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.74068E+07		2.4	20
Endrin [2C]	A	0.100	0.104	4.605028E+07	4.76899E+07		3.6	20
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.24848E+07		2.2	20
Endosulfan II [2C]	A	0.100	0.102	4.58875E+07	4.67259E+07		1.8	20
4,4'-DDT [2C]	A	0.100	0.103	4.184652E+07	4.32596E+07		3.4	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.48409E+07		7.8	20
Methoxychlor [2C]	A	0.100	0.0949	2.018515E+07	1.91563E+07		-5.1	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.836149E+07	3.98218E+07		3.8	20
Endrin ketone [2C]	A	0.100	0.0990	4.596086E+07	4.54807E+07		-1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ADA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/09/07
Lab Sample ID:	BA00161-CCV1	Injection Time:	19:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0960	7.280474E+07	6.98623E+07		-4.0	20
gamma-BHC	A	0.100	0.0966	6.465721E+07	6.24307E+07		-3.4	20
beta-BHC	A	0.100	0.0997	2.323065E+07	2.31622E+07		-0.3	20
delta-BHC	A	0.100	0.0982	5.66961E+07	5.56738E+07		-1.8	20
Heptachlor	A	0.100	0.0922	6.414063E+07	5.91202E+07		-7.8	20
Aldrin	A	0.100	0.0937	6.149162E+07	5.7638E+07		-6.3	20
Heptachlor epoxide	A	0.100	0.0905	5.405995E+07	4.89369E+07		-9.5	20
Chlordane-gamma	A	0.100	0.0914	5.527518E+07	5.05049E+07		-8.6	20
Chlordane-alpha	A	0.100	0.0897	5.296272E+07	4.75238E+07		-10.3	20
4,4′-DDE	A	0.100	0.0905	5.244698E+07	4.74407E+07		-9.5	20
Endosulfan I	A	0.100	0.0904	4.972951E+07	4.49536E+07		-9.6	20
Dieldrin	A	0.100	0.0901	5.436507E+07	4.89673E+07		-9.9	20
Endrin	A	0.100	0.0946	4.627937E+07	4.3787E+07		-5.4	20
4,4′-DDD	A	0.100	0.0935	4.00135E+07	3.74326E+07		-6.5	20
Endosulfan II	A	0.100	0.0917	4.442927E+07	4.07512E+07		-8.3	20
4,4′-DDT	A	0.100	0.0943	4.164772E+07	3.92605E+07		-5.7	20
Endrin aldehyde	A	0.100	0.0978	3.13612E+07	3.06865E+07		-2.2	20
Methoxychlor	A	0.100	0.0888	2.117353E+07	1.88056E+07		-11.2	20
Endosulfan sulfate	A	0.100	0.0949	3.673694E+07	3.48795E+07		-5.1	20
Endrin ketone	A	0.100	0.0922	4.568736E+07	4.21224E+07		-7.8	20
alpha-BHC [2C]	A	0.100	0.0912	7.552835E+07	6.88543E+07		-8.8	20
gamma-BHC [2C]	A	0.100	0.0926	6.719113E+07	6.22221E+07		-7.4	20
beta-BHC [2C]	A	0.100	0.0972	2.472905E+07	2.40255E+07		-2.8	20
delta-BHC [2C]	A	0.100	0.0964	5.850208E+07	5.63855E+07		-3.6	20
Heptachlor [2C]	A	0.100	0.0901	6.67268E+07	6.01438E+07		-9.9	20
Aldrin [2C]	A	0.100	0.0904	6.357242E+07	5.74601E+07		-9.6	20
Heptachlor epoxide [2C]	A	0.100	0.0886	5.626251E+07	4.98664E+07		-11.4	20
Chlordane-gamma [2C]	A	0.100	0.0898	5.722595E+07	5.14143E+07		-10.2	20
Chlordane-alpha [2C]	A	0.100	0.0871	5.472749E+07	4.76919E+07		-12.9	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ADB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/09/07
Lab Sample ID:	BA00161-CCV1	Injection Time:	19:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0901	5.341989E+07	4.81503E+07		-9.9	20
Endosulfan I [2C]	A	0.100	0.0880	5.087841E+07	4.47673E+07		-12.0	20
Dieldrin [2C]	A	0.100	0.0893	5.608619E+07	5.00942E+07		-10.7	20
Endrin [2C]	A	0.100	0.0919	4.605028E+07	4.23285E+07		-8.1	20
4,4'-DDD [2C]	A	0.100	0.0898	4.157866E+07	3.73284E+07		-10.2	20
Endosulfan II [2C]	A	0.100	0.0889	4.58875E+07	4.08124E+07		-11.1	20
4,4'-DDT [2C]	A	0.100	0.0902	4.184652E+07	3.77531E+07		-9.8	20
Endrin aldehyde [2C]	A	0.100	0.0943	3.232817E+07	3.04806E+07		-5.7	20
Methoxychlor [2C]	A	0.100	0.0883	2.018515E+07	1.78253E+07		-11.7	20
Endosulfan sulfate [2C]	A	0.100	0.0927	3.836149E+07	3.55687E+07		-7.3	20
Endrin ketone [2C]	A	0.100	0.0890	4.596086E+07	4.09229E+07		-11.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ADA014-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/10/07
Lab Sample ID:	BA00161-CCV2	Injection Time:	00:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.106	7.280474E+07	7.6881E+07		5.6	20
gamma-BHC	A	0.100	0.105	6.465721E+07	6.81645E+07		5.4	20
beta-BHC	A	0.100	0.108	2.323065E+07	2.52074E+07		8.5	20
delta-BHC	A	0.100	0.111	5.66961E+07	6.27568E+07		10.7	20
Heptachlor	A	0.100	0.0990	6.414063E+07	6.34966E+07		-1.0	20
Aldrin	A	0.100	0.101	6.149162E+07	6.23618E+07		1.4	20
Heptachlor epoxide	A	0.100	0.0979	5.405995E+07	5.29028E+07		-2.1	20
Chlordane-gamma	A	0.100	0.100	5.527518E+07	5.5378E+07		0.2	20
Chlordane-alpha	A	0.100	0.0994	5.296272E+07	5.26542E+07		-0.6	20
4,4'-DDE	A	0.100	0.0996	5.244698E+07	5.22384E+07		-0.4	20
Endosulfan I	A	0.100	0.0995	4.972951E+07	4.94743E+07		-0.5	20
Dieldrin	A	0.100	0.0983	5.436507E+07	5.34297E+07		-1.7	20
Endrin	A	0.100	0.104	4.627937E+07	4.81774E+07		4.1	20
4,4'-DDD	A	0.100	0.101	4.00135E+07	4.0482E+07		1.2	20
Endosulfan II	A	0.100	0.0993	4.442927E+07	4.41021E+07		-0.7	20
4,4'-DDT	A	0.100	0.102	4.164772E+07	4.26311E+07		2.4	20
Endrin aldehyde	A	0.100	0.104	3.13612E+07	3.25537E+07		3.8	20
Methoxychlor	A	0.100	0.0951	2.117353E+07	2.01259E+07		-4.9	20
Endosulfan sulfate	A	0.100	0.103	3.673694E+07	3.79623E+07		3.3	20
Endrin ketone	A	0.100	0.0992	4.568736E+07	4.53284E+07		-0.8	20
alpha-BHC [2C]	A	0.100	0.102	7.552835E+07	7.74002E+07		2.5	20
gamma-BHC [2C]	A	0.100	0.103	6.719113E+07	6.89501E+07		2.6	20
beta-BHC [2C]	A	0.100	0.107	2.472905E+07	2.65611E+07		7.4	20
delta-BHC [2C]	A	0.100	0.109	5.850208E+07	6.36367E+07		8.8	20
Heptachlor [2C]	A	0.100	0.0985	6.67268E+07	6.57047E+07		-1.5	20
Aldrin [2C]	A	0.100	0.0994	6.357242E+07	6.3215E+07		-0.6	20
Heptachlor epoxide [2C]	A	0.100	0.0967	5.626251E+07	5.44281E+07		-3.3	20
Chlordane-gamma [2C]	A	0.100	0.0996	5.722595E+07	5.6993E+07		-0.4	20
Chlordane-alpha [2C]	A	0.100	0.0976	5.472749E+07	5.34018E+07		-2.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ADB014-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/10/07
Lab Sample ID:	BA00161-CCV2	Injection Time:	00:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0995	5.341989E+07	5.31749E+07		-0.5	20
Endosulfan I [2C]	A	0.100	0.0966	5.087841E+07	4.91483E+07		-3.4	20
Dieldrin [2C]	A	0.100	0.0978	5.608619E+07	5.48431E+07		-2.2	20
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.70981E+07		2.3	20
4,4'-DDD [2C]	A	0.100	0.0982	4.157866E+07	4.08202E+07		-1.8	20
Endosulfan II [2C]	A	0.100	0.0968	4.58875E+07	4.44315E+07		-3.2	20
4,4'-DDT [2C]	A	0.100	0.0986	4.184652E+07	4.12472E+07		-1.4	20
Endrin aldehyde [2C]	A	0.100	0.101	3.232817E+07	3.27085E+07		1.2	20
Methoxychlor [2C]	A	0.100	0.0950	2.018515E+07	1.91722E+07		-5.0	20
Endosulfan sulfate [2C]	A	0.100	0.101	3.836149E+07	3.86822E+07		0.8	20
Endrin ketone [2C]	A	0.100	0.0960	4.596086E+07	4.4124E+07		-4.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ADA025-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/10/07
Lab Sample ID:	BA00161-CCV3	Injection Time:	04:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.102	7.280474E+07	7.39937E+07		1.6	20
gamma-BHC	A	0.100	0.101	6.465721E+07	6.52086E+07		0.9	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.36872E+07		2.0	20
delta-BHC	A	0.100	0.102	5.66961E+07	5.76905E+07		1.8	20
Heptachlor	A	0.100	0.0955	6.414063E+07	6.12303E+07		-4.5	20
Aldrin	A	0.100	0.0956	6.149162E+07	5.88017E+07		-4.4	20
Heptachlor epoxide	A	0.100	0.0915	5.405995E+07	4.94564E+07		-8.5	20
Chlordane-gamma	A	0.100	0.0929	5.527518E+07	5.13522E+07		-7.1	20
Chlordane-alpha	A	0.100	0.0917	5.296272E+07	4.85924E+07		-8.3	20
4,4´-DDE	A	0.100	0.0943	5.244698E+07	4.9461E+07		-5.7	20
Endosulfan I	A	0.100	0.0918	4.972951E+07	4.5643E+07		-8.2	20
Dieldrin	A	0.100	0.0928	5.436507E+07	5.04593E+07		-7.2	20
Endrin	A	0.100	0.100	4.627937E+07	4.63083E+07		0.06	20
4,4´-DDD	A	0.100	0.0965	4.00135E+07	3.86035E+07		-3.5	20
Endosulfan II	A	0.100	0.0888	4.442927E+07	3.94583E+07		-11.2	20
4,4´-DDT	A	0.100	0.0934	4.164772E+07	3.88855E+07		-6.6	20
Endrin aldehyde	A	0.100	0.0939	3.13612E+07	2.94505E+07		-6.1	20
Methoxychlor	A	0.100	0.0904	2.117353E+07	1.91482E+07		-9.6	20
Endosulfan sulfate	A	0.100	0.0935	3.673694E+07	3.434E+07		-6.5	20
Endrin ketone	A	0.100	0.0925	4.568736E+07	4.22593E+07		-7.5	20
alpha-BHC [2C]	A	0.100	0.0985	7.552835E+07	7.43695E+07		-1.5	20
gamma-BHC [2C]	A	0.100	0.0972	6.719113E+07	6.53046E+07		-2.8	20
beta-BHC [2C]	A	0.100	0.0999	2.472905E+07	2.47083E+07		-0.08	20
delta-BHC [2C]	A	0.100	0.100	5.850208E+07	5.85118E+07		0.02	20
Heptachlor [2C]	A	0.100	0.0931	6.67268E+07	6.21426E+07		-6.9	20
Aldrin [2C]	A	0.100	0.0940	6.357242E+07	5.97799E+07		-6.0	20
Heptachlor epoxide [2C]	A	0.100	0.0912	5.626251E+07	5.13151E+07		-8.8	20
Chlordane-gamma [2C]	A	0.100	0.0924	5.722595E+07	5.28697E+07		-7.6	20
Chlordane-alpha [2C]	A	0.100	0.0905	5.472749E+07	4.95153E+07		-9.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ADB025-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/10/07
Lab Sample ID:	BA00161-CCV3	Injection Time:	04:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0923	5.341989E+07	4.93249E+07		-7.7	20
Endosulfan I [2C]	A	0.100	0.0902	5.087841E+07	4.59128E+07		-9.8	20
Dieldrin [2C]	A	0.100	0.0909	5.608619E+07	5.10018E+07		-9.1	20
Endrin [2C]	A	0.100	0.0994	4.605028E+07	4.57937E+07		-0.6	20
4,4'-DDD [2C]	A	0.100	0.0920	4.157866E+07	3.82479E+07		-8.0	20
Endosulfan II [2C]	A	0.100	0.0885	4.58875E+07	4.0625E+07		-11.5	20
4,4'-DDT [2C]	A	0.100	0.0910	4.184652E+07	3.80603E+07		-9.0	20
Endrin aldehyde [2C]	A	0.100	0.0913	3.232817E+07	2.95112E+07		-8.7	20
Methoxychlor [2C]	A	0.100	0.0896	2.018515E+07	1.80893E+07		-10.4	20
Endosulfan sulfate [2C]	A	0.100	0.0906	3.836149E+07	3.47601E+07		-9.4	20
Endrin ketone [2C]	A	0.100	0.0886	4.596086E+07	4.07305E+07		-11.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AEA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/10/07
Lab Sample ID:	BA00161-CCV4	Injection Time:	13:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0866	7.280474E+07	6.30377E+07		-13.4	20
gamma-BHC	A	0.100	0.0880	6.465721E+07	5.69013E+07		-12.0	20
beta-BHC	A	0.100	0.0896	2.323065E+07	2.08056E+07		-10.4	20
delta-BHC	A	0.100	0.0898	5.66961E+07	5.091E+07		-10.2	20
Heptachlor	A	0.100	0.0858	6.414063E+07	5.50549E+07		-14.2	20
Aldrin	A	0.100	0.0860	6.149162E+07	5.28588E+07		-14.0	20
Heptachlor epoxide	A	0.100	0.0854	5.405995E+07	4.61569E+07		-14.6	20
Chlordane-gamma	A	0.100	0.0842	5.527518E+07	4.65358E+07		-15.8	20
Chlordane-alpha	A	0.100	0.0829	5.296272E+07	4.39289E+07		-17.1	20
4,4′-DDE	A	0.100	0.0842	5.244698E+07	4.41725E+07		-15.8	20
Endosulfan I	A	0.100	0.0833	4.972951E+07	4.14176E+07		-16.7	20
Dieldrin	A	0.100	0.0848	5.436507E+07	4.60875E+07		-15.2	20
Endrin	A	0.100	0.0876	4.627937E+07	4.05455E+07		-12.4	20
4,4′-DDD	A	0.100	0.0878	4.00135E+07	3.5127E+07		-12.2	20
Endosulfan II	A	0.100	0.0851	4.442927E+07	3.78057E+07		-14.9	20
4,4′-DDT	A	0.100	0.0869	4.164772E+07	3.62067E+07		-13.1	20
Endrin aldehyde	A	0.100	0.0889	3.13612E+07	2.78901E+07		-11.1	20
Methoxychlor	A	0.100	0.0834	2.117353E+07	1.76682E+07		-16.6	20
Endosulfan sulfate	A	0.100	0.0880	3.673694E+07	3.2324E+07		-12.0	20
Endrin ketone	A	0.100	0.0874	4.568736E+07	3.99426E+07		-12.6	20
alpha-BHC [2C]	A	0.100	0.0840	7.552835E+07	6.34254E+07		-16.0	20
gamma-BHC [2C]	A	0.100	0.0833	6.719113E+07	5.59588E+07		-16.7	20
beta-BHC [2C]	A	0.100	0.0857	2.472905E+07	2.11851E+07		-14.3	20
delta-BHC [2C]	A	0.100	0.0849	5.850208E+07	4.96741E+07		-15.1	20
Heptachlor [2C]	A	0.100	0.0823	6.67268E+07	5.4908E+07		-17.7	20
Aldrin [2C]	A	0.100	0.0824	6.357242E+07	5.23969E+07		-17.6	20
Heptachlor epoxide [2C]	A	0.100	0.0816	5.626251E+07	4.58872E+07		-18.4	20
Chlordane-gamma [2C]	A	0.100	0.0814	5.722595E+07	4.66069E+07		-18.6	20
Chlordane-alpha [2C]	A	0.100	0.0799	5.472749E+07	4.37089E+07		-20.1	20

NA
NA
NA

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AEB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/10/07
Lab Sample ID:	BA00161-CCV4	Injection Time:	13:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0821	5.341989E+07	4.38514E+07		-17.9	20
Endosulfan I [2C]	A	0.100	0.0806	5.087841E+07	4.10095E+07		-19.4	20
Dieldrin [2C]	A	0.100	0.0826	5.608619E+07	4.63378E+07		-17.4	20
Endrin [2C]	A	0.100	0.0852	4.605028E+07	3.9249E+07		-14.8	20
4,4'-DDD [2C]	A	0.100	0.0829	4.157866E+07	3.44783E+07		-17.1	20
Endosulfan II [2C]	A	0.100	0.0821	4.58875E+07	3.76758E+07		-17.9	20
4,4'-DDT [2C]	A	0.100	0.0818	4.184652E+07	3.42341E+07		-18.2	20
Endrin aldehyde [2C]	A	0.100	0.0850	3.232817E+07	2.74664E+07		-15.0	20
Methoxychlor [2C]	A	0.100	0.0848	2.018515E+07	1.71212E+07		-15.2	20
Endosulfan sulfate [2C]	A	0.100	0.0847	3.836149E+07	3.24991E+07		-15.3	20
Endrin ketone [2C]	A	0.100	0.0843	4.596086E+07	3.87572E+07		-15.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AEA007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/10/07
Lab Sample ID:	BA00161-CCV5	Injection Time:	14:57

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0917	7.280474E+07	6.67729E+07		-8.3	20	
gamma-BHC	A	0.100	0.0911	6.465721E+07	5.88721E+07		-8.9	20	
beta-BHC	A	0.100	0.0922	2.323065E+07	2.14151E+07		-7.8	20	
delta-BHC	A	0.100	0.0918	5.66961E+07	5.20454E+07		-8.2	20	
Heptachlor	A	0.100	0.0864	6.414063E+07	5.54123E+07		-13.6	20	
Aldrin	A	0.100	0.0879	6.149162E+07	5.40441E+07		-12.1	20	
Heptachlor epoxide	A	0.100	0.0860	5.405995E+07	4.65071E+07		-14.0	20	
Chlordane-gamma	A	0.100	0.0851	5.527518E+07	4.70149E+07		-14.9	20	
Chlordane-alpha	A	0.100	0.0845	5.296272E+07	4.47478E+07		-15.5	20	
4,4'-DDE	A	0.100	0.0864	5.244698E+07	4.53175E+07		-13.6	20	
Endosulfan I	A	0.100	0.0848	4.972951E+07	4.21621E+07		-15.2	20	
Dieldrin	A	0.100	0.0859	5.436507E+07	4.67065E+07		-14.1	20	
Endrin	A	0.100	0.0911	4.627937E+07	4.21575E+07		-8.9	20	
4,4'-DDD	A	0.100	0.0959	4.00135E+07	3.83608E+07		-4.1	20	
Endosulfan II	A	0.100	0.0846	4.442927E+07	3.7593E+07		-15.4	20	
4,4'-DDT	A	0.100	0.0719	4.164772E+07	2.99581E+07		-28.1	20	*
Endrin aldehyde	A	0.100	0.0734	3.13612E+07	2.30108E+07		-26.6	20	*
Methoxychlor	A	0.100	0.0740	2.117353E+07	1.56749E+07		-26.0	20	*
Endosulfan sulfate	A	0.100	0.0882	3.673694E+07	3.24083E+07		-11.8	20	
Endrin ketone	A	0.100	0.0853	4.568736E+07	3.89889E+07		-14.7	20	
alpha-BHC [2C]	A	0.100	0.0900	7.552835E+07	6.79819E+07		-10.0	20	
gamma-BHC [2C]	A	0.100	0.0883	6.719113E+07	5.93232E+07		-11.7	20	
beta-BHC [2C]	A	0.100	0.0904	2.472905E+07	2.23551E+07		-9.6	20	
delta-BHC [2C]	A	0.100	0.0905	5.850208E+07	5.29295E+07		-9.5	20	
Heptachlor [2C]	A	0.100	0.0850	6.67268E+07	5.66962E+07		-15.0	20	
Aldrin [2C]	A	0.100	0.0859	6.357242E+07	5.45948E+07		-14.1	20	
Heptachlor epoxide [2C]	A	0.100	0.0842	5.626251E+07	4.7356E+07		-15.8	20	
Chlordane-gamma [2C]	A	0.100	0.0836	5.722595E+07	4.78604E+07		-16.4	20	
Chlordane-alpha [2C]	A	0.100	0.0826	5.472749E+07	4.52107E+07		-17.4	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AEB007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00161	Injection Date:	01/10/07
Lab Sample ID:	BA00161-CCV5	Injection Time:	14:57

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0842	5.341989E+07	4.49672E+07		-15.8	20	
Endosulfan I [2C]	A	0.100	0.0847	5.087841E+07	4.30827E+07		-15.3	20	
Dieldrin [2C]	A	0.100	0.0840	5.608619E+07	4.70928E+07		-16.0	20	
Endrin [2C]	A	0.100	0.0897	4.605028E+07	4.13187E+07		-10.3	20	
4,4'-DDD [2C]	A	0.100	0.0926	4.157866E+07	3.84859E+07		-7.4	20	
Endosulfan II [2C]	A	0.100	0.0841	4.58875E+07	3.85743E+07		-15.9	20	
4,4'-DDT [2C]	A	0.100	0.0701	4.184652E+07	2.93292E+07		-29.9	20	*
Endrin aldehyde [2C]	A	0.100	0.0704	3.232817E+07	2.27521E+07		-29.6	20	*
Methoxychlor [2C]	A	0.100	0.0753	2.018515E+07	1.52036E+07		-24.7	20	*
Endosulfan sulfate [2C]	A	0.100	0.0847	3.836149E+07	3.24877E+07		-15.3	20	
Endrin ketone [2C]	A	0.100	0.0827	4.596086E+07	3.80139E+07		-17.3	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB092-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-01	File ID:	9LIA018-0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 00:19
Solids:	99.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
gamma-BHC	* 1	8.617	8.628	0.011		0.00020	0.0
beta-BHC	* 1	8.803	8.816429	0.0134		0.0010	636.7
Chlordane-alpha	1	11.351	11.34971	0.00129		0.0016	422.2
Endosulfan I	* 1	11.567	11.55586	0.0111		0.00040	0.0
Dieldrin	* 1	11.909	11.91886	0.00986		0.0013	40.0
4,4'-DDD	* 1	12.366	12.37786	0.0119		0.0016	10.4
Endosulfan II	* 1	12.604	12.60057	0.00343		0.0013	216.7
Endosulfan sulfate	* 1	13.841	13.853	0.012		0.00057	0.0
alpha-BHC	2	7.789	7.838	0.049		0.00017	0.0
beta-BHC	2	8.67	8.687429	0.0174		0.0074	636.7
Chlordane-gamma	* 2	10.96	10.97329	0.0133		0.00054	0.0
Chlordane-alpha	* 2	11.185	11.19143	0.00643		0.00030	422.2
Dieldrin	2	11.67	11.67429	0.00429		0.0019	40.0
4,4'-DDD	2	12.32	12.32514	0.00514		0.0018	10.4
Endosulfan II	2	12.431	12.43571	0.00471		0.00040	216.7
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0229	1.6
2,4,5,6-TCMX	2	6.558	6.564286	0.00629		0.0232	1.6
DBC	* 1	14.093	14.10214	0.00914		0.0264	7.7
DBC	2	13.904	13.90914	0.00514		0.0245	7.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB092-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-02	File ID:	9LIA019-0
Sampled:	11/29/06 09:36	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 00:45
Solids:	96.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.808	8.816429	0.00843		0.00076	69.2
4,4'-DDE	* 1	11.474	11.48286	0.00886		0.0016	8.5
beta-BHC	2	8.682	8.687429	0.00543		0.00045	69.2
4,4'-DDE	2	11.47	11.47543	0.00543		0.0018	8.5
Dieldrin	2	11.667	11.67429	0.00729		0.00031	0.0
4,4'-DDD	2	12.318	12.32514	0.00714		0.00031	0.0
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0229	2.9
2,4,5,6-TCMX	2	6.559	6.564286	0.00529		0.0236	2.9
DBC	* 1	14.094	14.10214	0.00814		0.0236	1.9
DBC	2	13.905	13.90914	0.00414		0.0241	1.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB093-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-03	File ID:	9LIA020-0
Sampled:	11/29/06 09:12	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 01:11
Solids:	98.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
gamma-BHC	* 1	8.616	8.628	0.012		0.00037	0.0
beta-BHC	* 1	8.806	8.816429	0.0104		0.0011	72.2
Heptachlor epoxide	1	10.949	10.95643	0.00743		0.0034	0.0
Chlordane-gamma	* 1	11.139	11.14771	0.00871		0.0011	118.7
Dieldrin	* 1	11.909	11.91886	0.00986		0.0011	16.1
4,4'-DDD	* 1	12.368	12.37786	0.00986		0.0096	26.9
Endosulfan sulfate	1	13.842	13.853	0.011		0.011	2346.2
beta-BHC	2	8.679	8.687429	0.00843		0.00061	72.2
Aldrin	2	9.708	9.759429	0.0514		0.00027	0.0
Chlordane-gamma	2	10.959	10.97329	0.0143		0.0024	118.7
Dieldrin	2	11.667	11.67429	0.00729		0.0012	16.1
4,4'-DDD	2	12.319	12.32514	0.00614		0.012	26.9
Endosulfan sulfate	* 2	13.318	13.32643	0.00843		0.00044	2346.2
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0221	1.4
2,4,5,6-TCMX	2	6.558	6.564286	0.00629		0.0224	1.4
DBC	* 1	14.094	14.10214	0.00814		0.0408	72.1
DBC	2	13.905	13.90914	0.00414		0.0237	72.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB093-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-04	File ID:	9LIA021-0
Sampled:	11/29/06 09:21	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 01:37
Solids:	84.67	Preparation:	EPA 3545	Instrument:	~~JSVGCECD2~~
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m,32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m,32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.138	11.14771	0.00971		0.00028	0.0
Endrin aldehyde	2	12.987	12.927	0.06		0.0012	0.0
2,4,5,6-TCMX	* 1	6.838	6.848286	0.0103		0.0276	3.6
2,4,5,6-TCMX	2	6.557	6.564286	0.00729		0.0285	3.6
DBC	* 1	14.093	14.10214	0.00914		0.0281	1.0
DBC	2	13.903	13.90914	0.00614		0.0283	1.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB101-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-05	File ID:	9LIA022-0
Sampled:	11/29/06 14:24	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 02:03
Solids:	71.64	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.138	11.14771	0.00971		0.00042	12.5
Chlordane-alpha	1	11.316	11.34971	0.0337		0.0017	0.0
4,4'-DDE	* 1	11.474	11.48286	0.00886		0.018	4.8
4,4'-DDD	* 1	12.367	12.37786	0.0109		0.0011	15.0
Chlordane-gamma	2	10.964	10.97329	0.00929		0.00037	12.5
4,4'-DDE	2	11.47	11.47543	0.00543		0.018	4.8
4,4'-DDD	2	12.319	12.32514	0.00614		0.00093	15.0
Endrin ketone	2	14.081	14.08214	0.00114		0.00056	0.0
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0351	3.6
2,4,5,6-TCMX	2	6.559	6.564286	0.00529		0.0363	3.6
DBC	* 1	14.094	14.10214	0.00814		0.0364	1.6
DBC	2	13.905	13.90914	0.00414		0.0358	1.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB101-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-06	File ID:	9LIA023-0
Sampled:	11/29/06 14:35	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 02:29
Solids:	83.46	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.139	11.14771	0.00871		0.00036	11.1
Chlordane-alpha	* 1	11.339	11.34971	0.0107		0.00032	12.5
4,4'-DDD	* 1	12.369	12.37786	0.00886		0.0022	14.5
Chlordane-gamma	2	10.967	10.97329	0.00629		0.00040	11.1
Chlordane-alpha	2	11.186	11.19143	0.00543		0.00036	12.5
4,4'-DDD	2	12.32	12.32514	0.00514		0.0025	14.5
2,4,5,6-TCMX	* 1	6.84	6.848286	0.00829		0.0266	4.8
2,4,5,6-TCMX	2	6.558	6.564286	0.00629		0.0279	4.8
DBC	* 1	14.094	14.10214	0.00814		0.0267	2.2
DBC	2	13.905	13.90914	0.00414		0.0273	2.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB102-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-07	File ID:	9LIA025-0
Sampled:	11/29/06 14:49	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 03:21
Solids:	97.48	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.138	11.14771	0.00971		0.00034	50.0
4,4'-DDE	* 1	11.473	11.48286	0.00986		0.066	0.4
4,4'-DDD	* 1	12.367	12.37786	0.0109		0.0032	21.1
Chlordane-gamma	2	10.964	10.97329	0.00929		0.00051	50.0
Chlordane-alpha	2	11.185	11.19143	0.00643		0.00031	0.0
4,4'-DDE	2	11.469	11.47543	0.00643		0.066	0.4
Dieldrin	2	11.665	11.67429	0.00929		0.00041	0.0
4,4'-DDD	2	12.317	12.32514	0.00814		0.0039	21.1
2,4,5,6-TCMX	* 1	6.838	6.848286	0.0103		0.0259	2.6
2,4,5,6-TCMX	2	6.557	6.564286	0.00729		0.0266	2.6
DBC	* 1	14.092	14.10214	0.0101		0.0280	5.0
DBC	2	13.903	13.90914	0.00614		0.0267	5.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB102-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-08	File ID:	9LIA026-0
Sampled:	11/29/06 15:03	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 03:47
Solids:	97.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
2,4,5,6-TCMX	* 1	6.838	6.848286	0.0103		0.0245	4.1
2,4,5,6-TCMX	2	6.558	6.564286	0.00629		0.0255	4.1
DBC	* 1	14.094	14.10214	0.00814		0.0249	3.0
DBC	2	13.905	13.90914	0.00414		0.0256	3.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB103-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-09	File ID:	9LIA027-0
Sampled:	11/29/06 10:35	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 04:13
Solids:	91.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.137	11.14771	0.0107		0.00033	0.0 - st. 1 < b
2,4,5,6-TCMX	* 1	6.837	6.848286	0.0113		0.0244	1.6
2,4,5,6-TCMX	2	6.556	6.564286	0.00829		0.0248	1.6
DBC	* 1	14.092	14.10214	0.0101		0.0253	1.2
DBC	2	13.902	13.90914	0.00714		0.0256	1.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB103-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-10	File ID:	9LIA028-0
Sampled:	11/29/06 11:00	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 04:39
Solids:	74.11	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.136	11.14771	0.0117		0.00085	21.1
Chlordane-alpha	* 1	11.326	11.34971	0.0237		0.00085	5.6
4,4'-DDE	* 1	11.472	11.48286	0.0109		0.0018	0.0
Chlordane-gamma	2	10.965	10.97329	0.00829		0.0010	21.1
Chlordane-alpha	2	11.184	11.19143	0.00743		0.00081	5.6
4,4'-DDE	2	11.468	11.47543	0.00743		0.0018	0.0
2,4,5,6-TCMX	* 1	6.836	6.848286	0.0123		0.0335	0.7
2,4,5,6-TCMX	2	6.555	6.564286	0.00929		0.0337	0.7
DBC	* 1	14.091	14.10214	0.0111		0.0327	2.3
DBC	2	13.902	13.90914	0.00714		0.0335	2.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB104-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-11	File ID:	9LIA029-0
Sampled:	11/29/06 10:03	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:05
Solids:	89.81	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.136	11.14771	0.0117		0.00045	25.0
Chlordane-alpha	* 1	11.335	11.34971	0.0147		0.00033	11.1
4,4'-DDE	* 1	11.472	11.48286	0.0109		0.013	4.7
4,4'-DDD	* 1	12.366	12.37786	0.0119		0.0025	13.4
Chlordane-gamma	2	10.964	10.97329	0.00929		0.00056	25.0
Chlordane-alpha	2	11.184	11.19143	0.00743		0.00037	11.1
4,4'-DDE	2	11.468	11.47543	0.00743		0.014	4.7
4,4'-DDD	2	12.317	12.32514	0.00814		0.0028	13.4
2,4,5,6-TCMX	* 1	6.837	6.848286	0.0113		0.0269	1.9
2,4,5,6-TCMX	2	6.556	6.564286	0.00829		0.0274	1.9
DBC	* 1	14.091	14.10214	0.0111		0.0281	1.1
DBC	2	13.902	13.90914	0.00714		0.0284	1.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB104-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-12	File ID:	9LIA030-0
Sampled:	11/29/06 10:14	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:31
Solids:	89.07	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.137	11.14771	0.0107		0.00030	0.0
2,4,5,6-TCMX	* 1	6.837	6.848286	0.0113		0.0285	1.4
2,4,5,6-TCMX	2	6.556	6.564286	0.00829		0.0289	1.4
DBC	* 1	14.092	14.10214	0.0101		0.0286	2.0
DBC	2	13.903	13.90914	0.00614		0.0292	2.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB108-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-13	File ID:	9LIA031-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 05:56
Solids:	97.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC		1	8.804	8.816429	0.0124		0.00069	(0.0) Still ND
Heptachlor epoxide		1	10.946	10.95643	0.0104		0.018	2772.2
Chlordane-alpha	*	1	11.326	11.34971	0.0237		0.056	2.6
Dieldrin	*	1	11.906	11.91886	0.0129		0.029	10.3
Endrin	*	1	12.244	12.26457	0.0206		0.0011	67.7
Endrin aldehyde		1	13.224	13.21929	0.00471		0.0037	60.3
Endosulfan sulfate		1	13.838	13.853	0.015		0.0030	584.6
Aldrin		2	9.732	9.759429	0.0274		0.00079	(0.0) Still ND
Heptachlor epoxide	*	2	10.668	10.67843	0.0104		0.00062	2772.2
Chlordane-alpha		2	11.183	11.19143	0.00843		0.057	2.6
Dieldrin		2	11.665	11.67429	0.00929		0.027	10.3
Endrin		2	12.133	12.121	0.012		0.0018	67.7
Endrin aldehyde	*	2	12.938	12.927	0.011		0.0023	60.3
Endosulfan sulfate	*	2	13.322	13.32643	0.00443		0.00045	584.6
2,4,5,6-TCMX	*	1	6.836	6.848286	0.0123		0.0243	0.1
2,4,5,6-TCMX		2	6.555	6.564286	0.00929		0.0243	0.1
DBC	*	1	14.09	14.10214	0.0121		0.0305	21.3
DBC		2	13.901	13.90914	0.00814		0.0251	21.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB108-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-14	File ID:	9LIA032-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 06:22
Solids:	93.18	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
4,4'-DDE	* 1	11.471	11.48286	0.0119		0.026	2.8	
Dieldrin	* 1	11.907	11.91886	0.0119		0.040	7.0	
Endrin	* 1	12.304	12.26457	0.0394		0.012	2881.8	
Endosulfan II	* 1	12.595	12.60057	0.00557		0.00097	125.0	
Heptachlor	2	9.238	9.237571	0.000429		0.00032	0.0	St.11 nm
Aldrin	2	9.761	9.759429	0.00157		0.00050	0.0	St.11 nD
4,4'-DDE	2	11.467	11.47543	0.00843		0.025	2.8	
Dieldrin	2	11.666	11.67429	0.00829		0.038	7.0	
Endrin	2	12.132	12.121	0.011		0.00039	2881.8	
Endosulfan II	2	12.401	12.43571	0.0347		0.00043	125.0	
4,4'-DDT	2	12.763	12.77157	0.00857		0.029	3.1 ?	St.11 nm
Methoxychlor	2	13.749	13.77371	0.0247		0.00036	0.0	St.11 nm
2,4,5,6-TCMX	* 1	6.836	6.848286	0.0123		0.0250	1.6	
2,4,5,6-TCMX	2	6.555	6.564286	0.00929		0.0254	1.6	
DBC	* 1	14.091	14.10214	0.0111		0.0245	1.2	
DBC	2	13.902	13.90914	0.00714		0.0248	1.2	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB109-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-15	File ID:	9LIA033-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 06:48
Solids:	96.15	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.814	8.816429	0.00243		0.00080	109.1
Heptachlor	* 1	9.455	9.463429	0.00843		0.00024	0.0
Heptachlor epoxide	1	10.944	10.95643	0.0124		0.019	58.2
Dieldrin	* 1	11.906	11.91886	0.0129		0.040	6.3
Endrin	* 1	12.242	12.26457	0.0226		0.0018	355.8
Methoxychlor	* 1	13.486	13.48543	0.00057		0.0020	67.2
Endosulfan sulfate	1	13.837	13.853	0.016		0.0034	263.0
Endrin ketone	* 1	14.222	14.25229	0.0303		0.00035	1830.0
beta-BHC	2	8.727	8.687429	0.0396		0.00038	109.1
Heptachlor	2	9.236	9.237571	0.00157		0.00024	0.0
Aldrin	2	9.763	9.759429	0.00357		0.0011	0.0 Shown
Heptachlor epoxide	* 2	10.669	10.67843	0.00943		0.012	58.2
Dieldrin	2	11.664	11.67429	0.0103		0.038	6.3
Endrin	2	12.106	12.121	0.015		0.0082	355.8
Methoxychlor	2	13.792	13.77371	0.0183		0.0034	67.2
Endosulfan sulfate	* 2	13.318	13.32643	0.00843		0.00094	263.0
Endrin ketone	2	14.113	14.08214	0.0309		0.0067	1830.0
2,4,5,6-TCMX	* 1	6.843	6.848286	0.00529		0.0252	2.8
2,4,5,6-TCMX	2	6.562	6.564286	0.00229		0.0245	2.8
DBC	* 1	14.09	14.10214	0.0121		0.0330	19.3
DBC	2	13.9	13.90914	0.00914		0.0277	19.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB109-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-16	File ID:	9LIA034-0
Sampled:	11/29/06 09:45	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 07:14
Solids:	90.28	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.944	10.95643	0.0124		0.00085	0.0
Chlordane-gamma	* 1	11.135	11.14771	0.0127		0.011	9.0
Chlordane-alpha	* 1	11.334	11.34971	0.0157		0.012	0.9
4,4'-DDE	* 1	11.469	11.48286	0.0139		0.011	5.2
Dieldrin	* 1	11.905	11.91886	0.0139		0.0030	12.5
4,4'-DDD	* 1	12.364	12.37786	0.0139		0.0039	76.2
Chlordane-gamma	2	10.964	10.97329	0.00929		0.012	9.0
Chlordane-alpha	2	11.183	11.19143	0.00843		0.012	0.9
4,4'-DDE	2	11.466	11.47543	0.00943		0.011	5.2
Dieldrin	2	11.664	11.67429	0.0103		0.0027	12.5
4,4'-DDD	2	12.313	12.32514	0.0121		0.0068	76.2
Endrin aldehyde	2	12.936	12.927	0.009		0.00063	0.0
2,4,5,6-TCMX	* 1	6.843	6.848286	0.00529		0.0292	2.2
2,4,5,6-TCMX	2	6.562	6.564286	0.00229		0.0286	2.2
DBC	* 1	14.089	14.10214	0.0131		0.0291	1.5
DBC	2	13.901	13.90914	0.00814		0.0287	1.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB111-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-17	File ID:	9LIA036-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 08:06
Solids:	96.05	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m,32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.452	9.463429	0.0114		0.00024	0.0
Heptachlor epoxide	* 1	10.944	10.95643	0.0124		0.0036	16.9
Chlordane-gamma	* 1	11.136	11.14771	0.0117		0.0031	21.1
Chlordane-alpha	* 1	11.334	11.34971	0.0157		0.0010	89.7
Dieldrin	* 1	11.906	11.91886	0.0129		0.0016	21.7
4,4'-DDD	* 1	12.363	12.37786	0.0149		0.0036	12.5
Endrin aldehyde	* 1	13.207	13.21929	0.0123		0.00024	57.1
Endosulfan sulfate	* 1	13.836	13.853	0.017		0.00090	0.0
Endrin ketone	* 1	14.225	14.25229	0.0273		0.00031	100.0
Heptachlor	2	9.231	9.237571	0.00657		0.00024	0.0
Heptachlor epoxide	2	10.67	10.67843	0.00843		0.0031	16.9
Chlordane-gamma	2	10.965	10.97329	0.00829		0.0038	21.1
Chlordane-alpha	2	11.184	11.19143	0.00743		0.0019	89.7
Dieldrin	2	11.665	11.67429	0.00929		0.0019	21.7
4,4'-DDD	2	12.316	12.32514	0.00914		0.0041	12.5
Endrin aldehyde	2	12.89	12.927	0.037		0.00038	57.1
Endrin ketone	2	14.117	14.08214	0.0349		0.00062	100.0
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.0257	2.6
2,4,5,6-TCMX	2	6.565	6.564286	0.000714		0.0250	2.6
DBC	* 1	14.09	14.10214	0.0121		0.0285	4.7
DBC	2	13.901	13.90914	0.00814		0.0272	4.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB112-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-19	File ID:	9LIA038-0
Sampled:	11/29/06 12:52	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 08:58
Solids:	74.20	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m,32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m,32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.134	11.14771	0.0137		0.00054	0.0
4,4'-DDE	* 1	11.469	11.48286	0.0139		0.026	7.4
4,4'-DDD	* 1	12.363	12.37786	0.0149		0.0013	0.0
Chlordane-gamma	2	10.962	10.97329	0.0113		0.00054	0.0
Chlordane-alpha	2	11.182	11.19143	0.00943		0.00045	0.0
4,4'-DDE	2	11.466	11.47543	0.00943		0.028	7.4
4,4'-DDD	2	12.315	12.32514	0.0101		0.0013	0.0
2,4,5,6-TCMX	* 1	6.835	6.848286	0.0133		0.0222	2.0
2,4,5,6-TCMX	2	6.554	6.564286	0.0103		0.0226	2.0
DBC	* 1	14.089	14.10214	0.0131		0.0263	1.6
DBC	2	13.9	13.90914	0.00914		0.0259	1.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB112-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-20	File ID:	9LIA039-0
Sampled:	11/29/06 13:00	Prepared:	12/08/06 09:22	Analyzed:	12/15/06 09:23
Solids:	74.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.134	11.14771	0.0137		0.00058	7.7
Chlordane-alpha	* 1	11.334	11.34971	0.0157		0.00049	9.1
4,4'-DDE	* 1	11.469	11.48286	0.0139		0.0021	2.1 J
Chlordane-gamma	2	10.963	10.97329	0.0103		0.00063	7.7
Chlordane-alpha	2	11.182	11.19143	0.00943		0.00054	9.1
4,4'-DDE	2	11.466	11.47543	0.00943		0.0022	2.1
Endrin aldehyde	2	12.984	12.927	0.057		0.0010	0.0 SI,UND
2,4,5,6-TCMX	* 1	6.834	6.848286	0.0143		0.0271	1.3
2,4,5,6-TCMX	2	6.554	6.564286	0.0103		0.0274	1.3
DBC	* 1	14.088	14.10214	0.0141		0.0293	2.2
DBC	2	13.9	13.90914	0.00914		0.0286	2.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB111-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-18RE1	File ID:	9LOA009-0
Sampled:	11/29/06 13:20	Prepared:	12/08/06 09:22	Analyzed:	12/20/06 14:39
Solids:	72.89	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.693	12.78071	0.0877		0.00050	27.3
4,4'-DDT	2	12.692	12.77157	0.0796		0.00064	27.3
2,4,5,6-TCMX	* 1	6.753	6.848286	0.0953		0.0375	3.5
2,4,5,6-TCMX	2	6.48	6.564286	0.0843		0.0362	3.5
DBC	* 1	14.014	14.10214	0.0881		0.0395	3.1
DBC	2	13.831	13.90914	0.0781		0.0383	3.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB108-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-14RE1	File ID:	9LPA004-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 14:26
Solids:	93.18	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.036	11.14771	0.112		0.10	2.1
Chlordane-alpha	* 1	11.236	11.34971	0.114		0.094	6.1
4,4'-DDD	* 1	12.27	12.37786	0.108		0.12	7.0
Chlordane-gamma	2	10.872	10.97329	0.101		0.10	2.1
Chlordane-alpha	2	11.094	11.19143	0.0974		0.099	6.1
4,4'-DDD	2	12.229	12.32514	0.0961		0.13	7.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB102-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-07RE1	File ID:	9LPA005-0
Sampled:	11/29/06 14:49	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 14:52
Solids:	97.48	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.674	12.78071	0.107		0.18	2.3
4,4'-DDT	2	12.675	12.77157	0.0966		0.18	2.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB092-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-01RE1	File ID:	9LPA006.0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 15:17
Solids:	99.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.375	11.48286	0.108		0.070	4.8
4,4'-DDE	2	11.38	11.47543	0.0954		0.073	4.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB111-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610308-17RE1	File ID:	9LPA007-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 15:44
Solids:	96.05	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.375	11.48286	0.108		0.098	6.4
4,4'-DDE	2	11.38	11.47543	0.0954		0.10	6.4

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB093-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-03RE1	File ID:	9LPA008-0
Sampled:	11/29/06 09:12	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 16:09
Solids:	98.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.376	11.48286	0.107		0.55	0.7
4,4'-DDT	* 1	12.674	12.78071	0.107		0.36	2.3
4,4'-DDE	2	11.381	11.47543	0.0944		0.56	0.7
4,4'-DDT	2	12.676	12.77157	0.0956		0.35	2.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB109-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-15RE1	File ID:	9LPA009-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 16:35
Solids:	96.15	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.036	11.14771	0.112		0.082	10.5
Chlordane-alpha	* 1	11.236	11.34971	0.114		0.098	5.3
4,4'-DDE	* 1	11.375	11.48286	0.108		0.44	3.3
4,4'-DDD	* 1	12.268	12.37786	0.11		0.11	42.9
Chlordane-gamma	2	10.872	10.97329	0.101		0.091	10.5
Chlordane-alpha	2	11.093	11.19143	0.0984		0.10	5.3
4,4'-DDE	2	11.38	11.47543	0.0954		0.46	3.3
4,4'-DDD	2	12.226	12.32514	0.0991		0.16	42.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB108-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-13RE1	File ID:	9LPA010-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 17:01
Solids:	97.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.036	11.14771	0.112		0.074	10.2
4,4'-DDE	* 1	11.375	11.48286	0.108		0.29	3.7
4,4'-DDD	* 1	12.268	12.37786	0.11		0.28	19.1
Chlordane-gamma	2	10.871	10.97329	0.102		0.082	10.2
4,4'-DDE	2	11.38	11.47543	0.0954		0.30	3.7
4,4'-DDD	2	12.228	12.32514	0.0971		0.33	19.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB109-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-15RE2	File ID:	9LPA012-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	12/21/06 17:53
Solids:	96.15	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.673	12.78071	0.108		4.2	1.9
4,4'-DDT	2	12.674	12.77157	0.0976		4.3	1.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB108-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-13RE2	File ID:	9LQA008-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	12/22/06 14:15
Solids:	97.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00092		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.658	12.78071	0.123		0.65	4.2
4,4'-DDT	2	12.661	12.77157	0.111		0.68	4.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB092-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-02RE1	File ID:	9ADA006-0
Sampled:	11/29/06 09:36	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 20:36
Solids:	96.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	1	12.458	12.78071	0.323		0.0013	16.2
4,4'-DDT	* 2	12.474	12.77157	0.298		0.0015	16.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB093-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-04RE1	File ID:	9ADA007-0
Sampled:	11/29/06 09:21	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:02
Solids:	84.67	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.458	12.78071	0.323		0.0014	2.8
4,4'-DDT	2	12.475	12.77157	0.297		0.0015	2.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB101-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-06RE1	File ID:	9ADA008-6
Sampled:	11/29/06 14:35	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:28
Solids:	83.46	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.459	12.78071	0.322		0.073	8.8
4,4'-DDT	2	12.475	12.77157	0.297		0.067	8.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB102-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-08RE1	File ID:	9ADA009.D
Sampled:	11/29/06 15:03	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 21:54
Solids:	97.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.0029	6.2
4,4'-DDT	2	12.476	12.77157	0.296		0.0028	6.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB103-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-10RE1	File ID:	9ADA010.0
Sampled:	11/29/06 11:00	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 22:19
Solids:	74.11	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.0027	5.3 J
4,4'-DDT	2	12.477	12.77157	0.295		0.0026	5.3 J

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB104-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-12RE1	File ID:	9ADA011-0
Sampled:	11/29/06 10:14	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 22:45
Solids:	89.07	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.461	12.78071	0.32		0.00022	0.0
4,4'-DDT	2	12.478	12.77157	0.294		0.00022	0.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB112-05-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-20RE1	File ID:	9ADA012-0
Sampled:	11/29/06 13:00	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 23:11
Solids:	74.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.0022	4.3
4,4'-DDT	2	12.477	12.77157	0.295		0.0021	4.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB103-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-09RE1	File ID:	9ADA013-0
Sampled:	11/29/06 10:35	Prepared:	12/08/06 09:22	Analyzed:	01/09/07 23:37
Solids:	91.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	1	12.46	12.78071	0.321		0.00048	23.1
4,4'-DDT	* 2	12.477	12.77157	0.295		0.00059	23.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB104-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-11RE1	File ID:	9ADA015-0
Sampled:	11/29/06 10:03	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 00:29
Solids:	89.81	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.461	12.78071	0.32		0.084	7.0
4,4'-DDT	2	12.478	12.77157	0.294		0.079	7.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB108-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-14RE2	File ID:	9ADA016-0
Sampled:	11/29/06 08:49	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 00:54
Solids:	93.18	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.037	2.1
4,4'-DDT	2	12.476	12.77157	0.296		0.036	2.1
Methoxychlor	2	13.466	13.77371	0.308		0.00050	0.0

* Column used for quantitation

* ND OK

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB109-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-16RE1	File ID:	9ADA017-0
Sampled:	11/29/06 09:45	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 01:20
Solids:	90.28	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.028	3.2
4,4'-DDT	2	12.477	12.77157	0.295		0.027	3.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB101-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-05RE1	File ID:	9ADA018-0
Sampled:	11/29/06 14:24	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 01:46
Solids:	71.64	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.46	12.78071	0.321		0.013	4.3
4,4'-DDT	2	12.477	12.77157	0.295		0.013	4.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB092-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-01RE2	File ID:	9ADA022-0
Sampled:	11/29/06 09:30	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 03:29
Solids:	99.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.461	12.78071	0.32		0.022	2.4
Methoxychlor	* 1	13.18	13.48543	0.305		0.0026	261.9
4,4'-DDT	2	12.477	12.77157	0.295		0.021	2.4
Methoxychlor	2	13.499	13.77371	0.275		0.00071	261.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB112-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-19RE1	File ID:	9ADA023-0
Sampled:	11/29/06 12:52	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 03:55
Solids:	74.20	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.458	12.78071	0.323		0.0093	5.8
4,4'-DDT	2	12.475	12.77157	0.297		0.0099	5.8
Methoxychlor	2	13.499	13.77371	0.275		0.00094	0.0 SI, U, ND

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB111-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-17RE2	File ID:	9ADA024-0
Sampled:	11/29/06 13:12	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 04:21
Solids:	96.05	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.459	12.78071	0.322		0.034	0.0
Methoxychlor	* 1	13.168	13.48543	0.317		0.0012	36.0
4,4'-DDT	2	12.477	12.77157	0.295		0.034	0.0
Methoxychlor	2	13.497	13.77371	0.277		0.00087	36.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB093-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-03RE2	File ID:	9AEA004-0
Sampled:	11/29/06 09:12	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 13:39
Solids:	98.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Methoxychlor	* 1	13.162	13.48543	0.323		0.0015	1584.1
Methoxychlor	2	13.475	13.77371	0.299		0.025	1584.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB108-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-13RE3	File ID:	9AEA005-0
Sampled:	11/29/06 08:33	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 14:05
Solids:	97.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Methoxychlor	* 1	13.162	13.48543	0.323		0.00069	105.0
Methoxychlor	2	13.453	13.77371	0.321		0.0014	105.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB109-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-15RE3	File ID:	9AEA006-0
Sampled:	11/29/06 09:19	Prepared:	12/08/06 09:22	Analyzed:	01/10/07 14:31
Solids:	96.15	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08005	Sequence:	BA00161		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Methoxychlor	* 1	13.159	13.48543	0.326		0.00055	525.0
Methoxychlor	2	13.48	13.77371	0.294		0.0035	525.0

* Column used for quantitation

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08005 Batch Matrix: Soil Preparation: EPA 3545 PREP 1

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L08005-BLK1	9LIB014-0	12/08/06 09:22	
Blank	6L08005-BLK1	9LIA014-0	12/08/06 09:22	
LCS	6L08005-BS1	9LIB015-0	12/08/06 09:22	
LCS	6L08005-BS1	9LIA015-0	12/08/06 09:22	
JAX47-SB092-01-112906	6L08005-MS1	9LIB016-0	12/08/06 09:22	
JAX47-SB092-01-112906	6L08005-MS1	9LIA016-0	12/08/06 09:22	
JAX47-SB092-01-112906	6L08005-MSD1	9LIA017-0	12/08/06 09:22	
JAX47-SB092-01-112906	6L08005-MSD1	9LIB017-0	12/08/06 09:22	
JAX47-SB092-01-112906	B610308-01	9LIA018-0	12/08/06 09:22	
JAX47-SB092-01-112906	B610308-01	9LIB018-0	12/08/06 09:22	
JAX47-SB092-01-112906	B610308-01RE1	9LPA006-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB092-01-112906	B610308-01RE1	9LPB006-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB092-01-112906	B610308-01RE2	9ADA022-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB092-01-112906	B610308-01RE2	9ADB022-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB092-06-112906	B610308-02	9LIA019-0	12/08/06 09:22	
JAX47-SB092-06-112906	B610308-02	9LIB019-0	12/08/06 09:22	
JAX47-SB092-06-112906	B610308-02RE1	9ADB006-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB092-06-112906	B610308-02RE1	9ADA006-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB093-01-112906	B610308-03	9LIA020-0	12/08/06 09:22	
JAX47-SB093-01-112906	B610308-03	9LIB020-0	12/08/06 09:22	
JAX47-SB093-01-112906	B610308-03RE1	9LPA008-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB093-01-112906	B610308-03RE1	9LPB008-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB093-01-112906	B610308-03RE2	9AEA004-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB093-01-112906	B610308-03RE2	9AEB004-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB093-06-112906	B610308-04	9LIA021-0	12/08/06 09:22	
JAX47-SB093-06-112906	B610308-04	9LIB021-0	12/08/06 09:22	
JAX47-SB093-06-112906	B610308-04RE1	9ADA007-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB093-06-112906	B610308-04RE1	9ADB007-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB101-01-112906	B610308-05	9LIA022-0	12/08/06 09:22	
JAX47-SB101-01-112906	B610308-05	9LIB022-0	12/08/06 09:22	
JAX47-SB101-01-112906	B610308-05RE1	9ADB018-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB101-01-112906	B610308-05RE1	9ADA018-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB101-05-112906	B610308-06	9LIA023-0	12/08/06 09:22	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08005 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB101-05-112906	B610308-06	9LIB023-0	12/08/06 09:22	
JAX47-SB101-05-112906	B610308-06RE1	9ADA008-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB101-05-112906	B610308-06RE1	9ADB008-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB102-01-112906	B610308-07	9LIA025-0	12/08/06 09:22	
JAX47-SB102-01-112906	B610308-07	9LIB025-0	12/08/06 09:22	
JAX47-SB102-01-112906	B610308-07RE1	9LPA005-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB102-01-112906	B610308-07RE1	9LPB005-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB102-01-112906	B610308-07RE2	9ADA019-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB102-01-112906	B610308-07RE2	9ADB019-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB102-05-112906	B610308-08	9LIA026-0	12/08/06 09:22	
JAX47-SB102-05-112906	B610308-08	9LIB026-0	12/08/06 09:22	
JAX47-SB102-05-112906	B610308-08RE1	9ADB009-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB102-05-112906	B610308-08RE1	9ADA009-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB103-01-112906	B610308-09	9LIA027-0	12/08/06 09:22	
JAX47-SB103-01-112906	B610308-09	9LIB027-0	12/08/06 09:22	
JAX47-SB103-01-112906	B610308-09RE1	9ADA013-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB103-01-112906	B610308-09RE1	9ADB013-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB103-05-112906	B610308-10	9LIA028-0	12/08/06 09:22	
JAX47-SB103-05-112906	B610308-10	9LIB028-0	12/08/06 09:22	
JAX47-SB103-05-112906	B610308-10RE1	9ADA010-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB103-05-112906	B610308-10RE1	9ADB010-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB104-01-112906	B610308-11	9LIB029-0	12/08/06 09:22	
JAX47-SB104-01-112906	B610308-11	9LIA029-0	12/08/06 09:22	
JAX47-SB104-01-112906	B610308-11RE1	9ADB015-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB104-01-112906	B610308-11RE1	9ADA015-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB104-05-112906	B610308-12	9LIA030-0	12/08/06 09:22	
JAX47-SB104-05-112906	B610308-12	9LIB030-0	12/08/06 09:22	
JAX47-SB104-05-112906	B610308-12RE1	9ADA011-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB104-05-112906	B610308-12RE1	9ADB011-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB108-01-112906	B610308-13	9LIA031-0	12/08/06 09:22	
JAX47-SB108-01-112906	B610308-13	9LIB031-0	12/08/06 09:22	
JAX47-SB108-01-112906	B610308-13RE1	9LPA010-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB108-01-112906	B610308-13RE1	9LPB010-0	12/08/06 09:22	Added 12/21/06 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08005 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB108-01-112906	B610308-13RE2	9LQA008-0	12/08/06 09:22	Added 12/22/06 by JBH
JAX47-SB108-01-112906	B610308-13RE2	9LQB008-0	12/08/06 09:22	Added 12/22/06 by JBH
JAX47-SB108-01-112906	B610308-13RE3	9AEA005-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB108-01-112906	B610308-13RE3	9AEB005-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB108-06-112906	B610308-14	9LIB032-0	12/08/06 09:22	
JAX47-SB108-06-112906	B610308-14	9LIA032-0	12/08/06 09:22	
JAX47-SB108-06-112906	B610308-14RE1	9LPA004-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB108-06-112906	B610308-14RE1	9LPB004-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB108-06-112906	B610308-14RE2	9ADA016-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB108-06-112906	B610308-14RE2	9ADB016-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB109-01-112906	B610308-15	9LIA033-0	12/08/06 09:22	
JAX47-SB109-01-112906	B610308-15	9LIB033-0	12/08/06 09:22	
JAX47-SB109-01-112906	B610308-15RE1	9LPA009-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB109-01-112906	B610308-15RE1	9LPB009-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB109-01-112906	B610308-15RE2	9LPA012-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB109-01-112906	B610308-15RE2	9LPB012-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB109-01-112906	B610308-15RE3	9AEA006-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB109-01-112906	B610308-15RE3	9AEB006-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB109-06-112906	B610308-16	9LIA034-0	12/08/06 09:22	
JAX47-SB109-06-112906	B610308-16	9LIB034-0	12/08/06 09:22	
JAX47-SB109-06-112906	B610308-16RE1	9ADA017-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB109-06-112906	B610308-16RE1	9ADB017-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB111-01-112906	B610308-17	9LIA036-0	12/08/06 09:22	
JAX47-SB111-01-112906	B610308-17	9LIB036-0	12/08/06 09:22	
JAX47-SB111-01-112906	B610308-17RE1	9LPB007-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB111-01-112906	B610308-17RE1	9LPA007-0	12/08/06 09:22	Added 12/21/06 by JBH
JAX47-SB111-01-112906	B610308-17RE2	9ADA024-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB111-01-112906	B610308-17RE2	9ADB024-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB112-01-112906	B610308-19	9LIA038-0	12/08/06 09:22	
JAX47-SB112-01-112906	B610308-19	9LIB038-0	12/08/06 09:22	
JAX47-SB112-01-112906	B610308-19RE1	9ADA023-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB112-01-112906	B610308-19RE1	9ADB023-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB112-05-112906	B610308-20	9LIA039-0	12/08/06 09:22	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08005 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB112-05-112906	B610308-20	9LIB039-0	12/08/06 09:22	
JAX47-SB112-05-112906	B610308-20RE1	9ADA012-0	12/08/06 09:22	Added 1/11/07 by JBH
JAX47-SB112-05-112906	B610308-20RE1	9ADB012-0	12/08/06 09:22	Added 1/11/07 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L14027 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L14027-BLK1	9LOB006-0	12/14/06 18:51	
Blank	6L14027-BLK1	9LOA006-0	12/14/06 18:51	
LCS	6L14027-BS1	9LOB005-0	12/14/06 18:51	
LCS	6L14027-BS1	9LOA005-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MS1	9LOB015-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MS1	9LOA015-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MSD1	9LOB016-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MSD1	9LOA016-0	12/14/06 18:51	
JAX47-SB111-05-112906	B610308-18RE1	9LOB009-0	12/08/06 09:22	From 6L08005 by JBH on 15-Dec-06
JAX47-SB111-05-112906	B610308-18RE1	9LOA009-0	12/08/06 09:22	From 6L08005 by JBH on 15-Dec-06

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L08005-BLK1	File ID:	9LIA014-0
Prepared:	12/08/06 09:22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/14/06 22:35	Instrument:	JSVGCECD2		
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4´-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4´-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4´-DDT	0.000467	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.0017	U
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-007	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L08005-BLK1	File ID:	9LIB014-0
Prepared:	12/08/06 09:22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/14/06 22:35	Instrument:	JSVGCECD2		
Batch:	6L08005	Sequence:	BA00092	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.0017	U
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.000467	J
7421-93-4	Endrin aldehyde [2C]	0.0017	U
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0228	68	70 - 125	*
2,4,5,6-TCMX [2C]	0.0333	0.0239	72	70 - 125	
DBC	0.0333	0.0225	67	55 - 130	
DBC [2C]	0.0333	0.0234	70	55 - 130	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00092	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L08005-BLK1)			Lab File ID: 9LIA014-0		Analyzed: 12/14/06 22:35			
2,4,5,6-TCMX	0.0333	68	70 - 125	6.84	6.848286	-0.0083	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0333	72	70 - 125	6.559	6.564286	-0.0053	+/-0.3	
DBC	0.0333	67	55 - 130	14.094	14.10214	-0.0081	+/-0.3	
DBC [2C]	0.0333	70	55 - 130	13.905	13.90914	-0.0041	+/-0.3	
JAX47-SB092-01-112906 (B610308-01)			Lab File ID: 9LIA018-0		Analyzed: 12/15/06 00:19			
2,4,5,6-TCMX	0.0336	68	70 - 125	6.84	6.848286	-0.0083	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0336	69	70 - 125	6.558	6.564286	-0.0063	+/-0.3	*
DBC	0.0336	79	55 - 130	14.093	14.10214	-0.0091	+/-0.3	
DBC [2C]	0.0336	73	55 - 130	13.904	13.90914	-0.0051	+/-0.3	
JAX47-SB092-06-112906 (B610308-02)			Lab File ID: 9LIA019-0		Analyzed: 12/15/06 00:45			
2,4,5,6-TCMX	0.0347	66	70 - 125	6.84	6.848286	-0.0083	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0347	68	70 - 125	6.559	6.564286	-0.0053	+/-0.3	*
DBC	0.0347	68	55 - 130	14.094	14.10214	-0.0081	+/-0.3	
DBC [2C]	0.0347	69	55 - 130	13.905	13.90914	-0.0041	+/-0.3	
JAX47-SB093-01-112906 (B610308-03)			Lab File ID: 9LIA020-0		Analyzed: 12/15/06 01:11			
2,4,5,6-TCMX	0.0339	65	70 - 125	6.84	6.848286	-0.0083	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0339	66	70 - 125	6.558	6.564286	-0.0063	+/-0.3	*
DBC	0.0339	120	55 - 130	14.094	14.10214	-0.0081	+/-0.3	
DBC [2C]	0.0339	70	55 - 130	13.905	13.90914	-0.0041	+/-0.3	
JAX47-SB093-06-112906 (B610308-04)			Lab File ID: 9LIA021-0		Analyzed: 12/15/06 01:37			
2,4,5,6-TCMX	0.0394	70	70 - 125	6.838	6.848286	-0.0103	+/-0.3	
2,4,5,6-TCMX [2C]	0.0394	72	70 - 125	6.557	6.564286	-0.0073	+/-0.3	
DBC	0.0394	71	55 - 130	14.093	14.10214	-0.0091	+/-0.3	
DBC [2C]	0.0394	72	55 - 130	13.903	13.90914	-0.0061	+/-0.3	
JAX47-SB101-01-112906 (B610308-05)			Lab File ID: 9LIA022-0		Analyzed: 12/15/06 02:03			
2,4,5,6-TCMX	0.0465	75	70 - 125	6.84	6.848286	-0.0083	+/-0.3	
2,4,5,6-TCMX [2C]	0.0465	78	70 - 125	6.559	6.564286	-0.0053	+/-0.3	
DBC	0.0465	78	55 - 130	14.094	14.10214	-0.0081	+/-0.3	
DBC [2C]	0.0465	77	55 - 130	13.905	13.90914	-0.0041	+/-0.3	
JAX47-SB101-05-112906 (B610308-06)			Lab File ID: 9LIA023-0		Analyzed: 12/15/06 02:29			
2,4,5,6-TCMX	0.0399	67	70 - 125	6.84	6.848286	-0.0083	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0399	70	70 - 125	6.558	6.564286	-0.0063	+/-0.3	
DBC	0.0399	67	55 - 130	14.094	14.10214	-0.0081	+/-0.3	
DBC [2C]	0.0399	68	55 - 130	13.905	13.90914	-0.0041	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00092	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB102-01-112906 (B610308-07)			Lab File ID: 9LIA025-0		Analyzed: 12/15/06 03:21			
2,4,5,6-TCMX	0.0342	76	70 - 125	6.838	6.848286	-0.0103	+/-0.3	
2,4,5,6-TCMX [2C]	0.0342	78	70 - 125	6.557	6.564286	-0.0073	+/-0.3	
DBC	0.0342	82	55 - 130	14.092	14.10214	-0.0101	+/-0.3	
DBC [2C]	0.0342	78	55 - 130	13.903	13.90914	-0.0061	+/-0.3	
JAX47-SB102-05-112906 (B610308-08)			Lab File ID: 9LIA026-0		Analyzed: 12/15/06 03:47			
2,4,5,6-TCMX	0.0343	72	70 - 125	6.838	6.848286	-0.0103	+/-0.3	
2,4,5,6-TCMX [2C]	0.0343	75	70 - 125	6.558	6.564286	-0.0063	+/-0.3	
DBC	0.0343	73	55 - 130	14.094	14.10214	-0.0081	+/-0.3	
DBC [2C]	0.0343	75	55 - 130	13.905	13.90914	-0.0041	+/-0.3	
JAX47-SB103-01-112906 (B610308-09)			Lab File ID: 9LIA027-0		Analyzed: 12/15/06 04:13			
2,4,5,6-TCMX	0.0366	67	70 - 125	6.837	6.848286	-0.0113	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0366	68	70 - 125	6.556	6.564286	-0.0083	+/-0.3	*
DBC	0.0366	69	55 - 130	14.092	14.10214	-0.0101	+/-0.3	
DBC [2C]	0.0366	70	55 - 130	13.902	13.90914	-0.0071	+/-0.3	
JAX47-SB103-05-112906 (B610308-10)			Lab File ID: 9LIA028-0		Analyzed: 12/15/06 04:39			
2,4,5,6-TCMX	0.0450	75	70 - 125	6.836	6.848286	-0.0123	+/-0.3	
2,4,5,6-TCMX [2C]	0.0450	75	70 - 125	6.555	6.564286	-0.0093	+/-0.3	
DBC	0.0450	73	55 - 130	14.091	14.10214	-0.0111	+/-0.3	
DBC [2C]	0.0450	74	55 - 130	13.902	13.90914	-0.0071	+/-0.3	
JAX47-SB104-01-112906 (B610308-11)			Lab File ID: 9LIA029-0		Analyzed: 12/15/06 05:05			
2,4,5,6-TCMX	0.0371	72	70 - 125	6.837	6.848286	-0.0113	+/-0.3	
2,4,5,6-TCMX [2C]	0.0371	74	70 - 125	6.556	6.564286	-0.0083	+/-0.3	
DBC	0.0371	76	55 - 130	14.091	14.10214	-0.0111	+/-0.3	
DBC [2C]	0.0371	76	55 - 130	13.902	13.90914	-0.0071	+/-0.3	
JAX47-SB104-05-112906 (B610308-12)			Lab File ID: 9LIA030-0		Analyzed: 12/15/06 05:31			
2,4,5,6-TCMX	0.0374	76	70 - 125	6.837	6.848286	-0.0113	+/-0.3	
2,4,5,6-TCMX [2C]	0.0374	77	70 - 125	6.556	6.564286	-0.0083	+/-0.3	
DBC	0.0374	76	55 - 130	14.092	14.10214	-0.0101	+/-0.3	
DBC [2C]	0.0374	78	55 - 130	13.903	13.90914	-0.0061	+/-0.3	
JAX47-SB108-01-112906 (B610308-13)			Lab File ID: 9LIA031-0		Analyzed: 12/15/06 05:56			
2,4,5,6-TCMX	0.0343	71	70 - 125	6.836	6.848286	-0.0123	+/-0.3	
2,4,5,6-TCMX [2C]	0.0343	71	70 - 125	6.555	6.564286	-0.0093	+/-0.3	
DBC	0.0343	89	55 - 130	14.09	14.10214	-0.0121	+/-0.3	
DBC [2C]	0.0343	73	55 - 130	13.901	13.90914	-0.0081	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00092	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB108-06-112906 (B610308-14)			Lab File ID: 9LIA032-0		Analyzed: 12/15/06 06:22			
2,4,5,6-TCMX	0.0358	70	70 - 125	6.836	6.848286	-0.0123	+/-0.3	
2,4,5,6-TCMX [2C]	0.0358	71	70 - 125	6.555	6.564286	-0.0093	+/-0.3	
DBC	0.0358	69	55 - 130	14.091	14.10214	-0.0111	+/-0.3	
DBC [2C]	0.0358	69	55 - 130	13.902	13.90914	-0.0071	+/-0.3	
JAX47-SB109-01-112906 (B610308-15)			Lab File ID: 9LIA033-0		Analyzed: 12/15/06 06:48			
2,4,5,6-TCMX	0.0347	73	70 - 125	6.843	6.848286	-0.0053	+/-0.3	
2,4,5,6-TCMX [2C]	0.0347	71	70 - 125	6.562	6.564286	-0.0023	+/-0.3	
DBC	0.0347	95	55 - 130	14.09	14.10214	-0.0121	+/-0.3	
DBC [2C]	0.0347	80	55 - 130	13.9	13.90914	-0.0091	+/-0.3	
JAX47-SB109-06-112906 (B610308-16)			Lab File ID: 9LIA034-0		Analyzed: 12/15/06 07:14			
2,4,5,6-TCMX	0.0369	79	70 - 125	6.843	6.848286	-0.0053	+/-0.3	
2,4,5,6-TCMX [2C]	0.0369	77	70 - 125	6.562	6.564286	-0.0023	+/-0.3	
DBC	0.0369	79	55 - 130	14.089	14.10214	-0.0131	+/-0.3	
DBC [2C]	0.0369	78	55 - 130	13.901	13.90914	-0.0081	+/-0.3	
JAX47-SB111-01-112906 (B610308-17)			Lab File ID: 9LIA036-0		Analyzed: 12/15/06 08:06			
2,4,5,6-TCMX	0.0347	74	70 - 125	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	0.0347	72	70 - 125	6.565	6.564286	0.0007	+/-0.3	
DBC	0.0347	82	55 - 130	14.09	14.10214	-0.0121	+/-0.3	
DBC [2C]	0.0347	78	55 - 130	13.901	13.90914	-0.0081	+/-0.3	
JAX47-SB112-01-112906 (B610308-19)			Lab File ID: 9LIA038-0		Analyzed: 12/15/06 08:58			
2,4,5,6-TCMX	0.0449	49	70 - 125	6.835	6.848286	-0.0133	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0449	50	70 - 125	6.554	6.564286	-0.0103	+/-0.3	*
DBC	0.0449	59	55 - 130	14.089	14.10214	-0.0131	+/-0.3	
DBC [2C]	0.0449	58	55 - 130	13.9	13.90914	-0.0091	+/-0.3	
JAX47-SB112-05-112906 (B610308-20)			Lab File ID: 9LIA039-0		Analyzed: 12/15/06 09:23			
2,4,5,6-TCMX	0.0449	60	70 - 125	6.834	6.848286	-0.0143	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0449	61	70 - 125	6.554	6.564286	-0.0103	+/-0.3	*
DBC	0.0449	65	55 - 130	14.088	14.10214	-0.0141	+/-0.3	
DBC [2C]	0.0449	64	55 - 130	13.9	13.90914	-0.0091	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L14027-BLK1)			Lab File ID: 9LOA006-0		Analyzed: 12/20/06 13:22			
2,4,5,6-TCMX	0.0333	84	70 - 125	6.757	6.848286	-0.0913	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	81	70 - 125	6.48	6.564286	-0.0843	+/-0.3	
DBC	0.0333	88	55 - 130	14.017	14.10214	-0.0851	+/-0.3	
DBC [2C]	0.0333	86	55 - 130	13.832	13.90914	-0.0771	+/-0.3	
JAX47-SB111-05-112906 (B610308-18RE1)			Lab File ID: 9LOA009-0		Analyzed: 12/20/06 14:39			
2,4,5,6-TCMX	0.0457	82	70 - 125	6.753	6.848286	-0.0953	+/-0.3	
2,4,5,6-TCMX [2C]	0.0457	79	70 - 125	6.48	6.564286	-0.0843	+/-0.3	
DBC	0.0457	86	55 - 130	14.014	14.10214	-0.0881	+/-0.3	
DBC [2C]	0.0457	84	55 - 130	13.831	13.90914	-0.0781	+/-0.3	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **MARCH 6, 2007**

FROM: **MATTHEW D. KRAUS** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC & ORGANIC DATA VALIDATION – ARSENIC & PESTICIDES**
NAS JACKSONVILLE – CTO 047
SDG – BR006-007

SAMPLES: 2/Soil/BR006-007

JAX47-SB093-01-112906 JAX47-SB104-01-112906

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-007, consists of two soil environmental samples.

Both samples were analyzed for arsenic and organochlorine pesticides (PEST) via the synthetic precipitation leaching procedure (SPLP). The samples were collected by Tetra Tech NUS on November 29, 2006 and analyzed by Environmental Conservation Laboratories, Inc. SPLP extractions, arsenic and PEST analyses were conducted using SW-846 methods 1312, 6010B and 8081, respectively.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Result
• Matrix Spike/Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
• Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

The percent difference (%D) between columns exceeded 100% for the following compounds:

Sample	Compound	%D	QUAL
JAX47-SB093-01-112906	Alpha-Chlordane	467	J
	Dieldrin	350	J
JAX47-SB104-01-112906	Alpha-Chlordane	280	J
	Dieldrin	333	J

Positive results with a %D > 100% were qualified as estimated, "J".

Notes

Several results were qualified as estimated, "J", due to uncertainty near the detection limit.

Non-detected arsenic and pesticide results were not reported down to both the method detection limit (MDL) and the method reporting limit (MRL) on Form I reports as requested in the laboratory scope-of-work and required by the state of Florida. Non-detects were reported down to the MRL on Form I reports. The laboratory correctly reported the non-detected arsenic and pesticide results down to the MDL in the electronic data deliverable (EDD).

The arsenic and pesticide results on the laboratory method blank forms were not reported down to the MDL.

The laboratory only reported to one significant figure for all non-detected results.

The matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries for alpha-chlordane and gamma-chlordane were greater than the respective upper quality control limits of those compounds in sample JAX47-SB089-02-113006. No data was qualified because the MS and MSD were performed on a sample (JAX47-SB089-02-113006) that was not analyzed in this SDG.

Executive Summary

Laboratory Performance: The laboratory did not report method detection limits on the Form I reports as requested in the laboratory statement-of-work and required by the state of Florida.

Other Factors Affecting Data Quality: The percent difference between columns non-compliance resulted in the estimation of several pesticide results.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", October 2004, the "National Functional Guidelines for Organic Data Review", October 1999, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Matthew D. Kraus

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: SPLPM

nsample	JAX47-SB093-01-112906	nsample	JAX47-SB104-01-112906
samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-03	lab_id	B610308-11
qc_type	NM	qc_type	NM
units	MG/L	units	MG/L
Pct_Solids	98.3	Pct_Solids	89.8
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: SPLPP

nsample	JAX47-SB093-01-112906	nsample	JAX47-SB104-01-112906
samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-03	lab_id	B610308-11
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids	98.3	Pct_Solids	89.8
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.061		
4,4'-DDE	0.028	J	P
4,4'-DDT	0.033	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.017	J	PU
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.009	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	J	P
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.005	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.002	J	P
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.092		
4,4'-DDE	0.004	J	P
4,4'-DDT	0.026	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.019	J	PU
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.013	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.006	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB093-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610308-03 | File ID: 011107a-064

Sampled: 11/29/06 09:12 | Prepared: 01/10/07 16:07 | Analyzed: 01/11/07 16:20

Solids: 98.29 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10028 | Sequence: BA00160 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB104-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610308-11 | File ID: 011107a-065

Sampled: 11/29/06 10:03 | Prepared: 01/10/07 16:07 | Analyzed: 01/11/07 16:28

Solids: 89.81 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10028 | Sequence: BA00160 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB093-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-03	File ID:	9AKA008-0
Sampled:	11/29/06 09:12	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 13:28
Solids:	98.29	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.002	J
NA	Chlordane-gamma	1	0.005	J
72-55-9	4,4'-DDE	1	0.028	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.009	JP
72-20-8	Endrin	1	0.002	J
72-54-8	4,4'-DDD	1	0.061	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.033	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.003	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.866	87	25 - 140	
DBC	1.00	0.879	88	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB104-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-11	File ID:	9AKA009-0
Sampled:	11/29/06 10:03	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 13:54
Solids:	89.81	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.006	J
72-55-9	4,4'-DDE	1	0.004	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.013	JP
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.092	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.026	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.005	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.898	90	25 - 140	
DBC	1.00	0.907	91	30 - 135	

* Values outside of QC limits

APPENDIX C
SUPPORT DOCUMENTATION

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By: Chuck McG	Date: 11-30-06	Time: 1130	Received By:	Date: 11/30/06	Time: 1135 H
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

HOLDTIME

SDG BR006-007

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPM	MG/L	JAX47-SB104-01-112906	B610308-11	NM	11/29/2006	1/10/2007	1/11/2007	42	1	43
SPLPM	MG/L	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	1/10/2007	1/11/2007	42	1	43
SPLPS	%	JAX47-SB104-01-112906	B610308-11	NM	11/29/2006	12/19/2006	1/16/2007	20	28	48
SPLPS	%	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	12/19/2006	1/16/2007	20	28	48
SPLPS	UG/L	JAX47-SB104-01-112906	B610308-11	NM	11/29/2006	12/19/2006	1/16/2007	20	28	48
SPLPS	UG/L	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	12/19/2006	1/16/2007	20	28	48

HOLDTIME

SDG BR006-007

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPM	MG/L	JAX47-SB104-01-112906	B610308-11	NM	11/29/2006	1/10/2007	1/11/2007	42	1	43
SPLPM	MG/L	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	1/10/2007	1/11/2007	42	1	43
SPLPS	%	JAX47-SB104-01-112906	B610308-11	NM	11/29/2006	12/19/2006	1/16/2007	20	28	48
SPLPS	%	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	12/19/2006	1/16/2007	20	28	48
SPLPS	UG/L	JAX47-SB104-01-112906	B610308-11	NM	11/29/2006	12/19/2006	1/16/2007	20	28	48
SPLPS	UG/L	JAX47-SB093-01-112906	B610308-03	NM	11/29/2006	12/19/2006	1/16/2007	20	28	48

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-007

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB093-01-112906	B610308-03
JAX47-SB104-01-112906	B610308-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins

Name: Christina Tompkins

Date: 01/23/07

Title: Project Manager

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 08:44:24 -05'00'

Christina M. Tompkins
Project Manager

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-007

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB093-01-112906	B610308-03
JAX47-SB104-01-112906	B610308-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.25 08:44:46 -05'00'

Name: Christina Tompkins

Date: 01/23/07

Title: Project Manager

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0701006
Control Limt: +/- 10.00%
Sequence: BA00160

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00160-ICV1	Arsenic	0.500	0.497	99	mg/L	EPA 6010B
BA00160-CCV1	Arsenic	0.500	0.492	98	mg/L	EPA 6010B
BA00160-CCV2	Arsenic	0.500	0.485	97	mg/L	EPA 6010B
BA00160-CCV3	Arsenic	0.500	0.489	98	mg/L	EPA 6010B

* Values outside of QC limits

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	7A10028-BLK1	File ID:	011107a-057
Prepared:	01/10/07 16:07	Preparation:	EPA 3010A	Initial/Final:	50 mL / 50 mL
Analyzed:	01/11/07 15:33	Instrument:	JMICP1		
Batch:	7A10028	Sequence:	BA00160	Calibration:	0701006

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7440-38-2	Arsenic	0.010	U

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00160
Calibration: 0701006

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00160-ICB1	Arsenic	0.00	0.010	mg/L		EPA 6010B
BA00160-CCB1	Arsenic	2.74E-5	0.010	mg/L		EPA 6010B
7A10028-BLK1	Arsenic	0.000703	0.010	mg/L		EPA 6010B
BA00160-CCB2	Arsenic	0.00280	0.010	mg/L		EPA 6010B
BA00160-CCB3	Arsenic	0.00213	0.010	mg/L		EPA 6010B

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-007

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Instrument ID: JMICP1

Calibration: 0701006

Sequence: BA00160

Lab Sample ID	Analyte	True	Found	%R	Units
BA00160-IFA1	Arsenic	1.00	0.98	98	mg/L
	Arsenic	1.00	0.98	98	mg/L

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7A10028	Laboratory ID:	7A10028-MS1
Preparation:	EPA 3010A	Initial/Final:	50 mL / 50 mL

Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Arsenic	1.00	0.00774	0.881	87	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	1.00	0.933	93	6	20	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7A10028	Laboratory ID:	7A10028-BS1
Preparation:	EPA 3010A	Initial/Final:	50 mL / 50 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Arsenic	1.00	0.959	96	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-007

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	0.004	0.010	mg/L

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7A10028 Batch Matrix: Water Preparation: EPA 3010A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7A10028-BLK1	011107a-057	01/10/07 16:07	
LCS	7A10028-BS1	011107a-058	01/10/07 16:07	
JAX47-SB089-02-113006	7A10028-MS1	011107a-062	01/10/07 16:07	
JAX47-SB089-02-113006	7A10028-MSD1	011107a-063	01/10/07 16:07	
JAX47-SB093-01-112906	B610308-03	011107a-064	01/10/07 16:07	
JAX47-SB104-01-112906	B610308-11	011107a-065	01/10/07 16:07	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00160	Instrument:	JMICP1
Matrix:	Water	Calibration:	0701006

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00160-ICB1	011107a-001	01/11/07 09:07
Cal Standard	BA00160-CAL1	011107a-002	01/11/07 09:13
Instrument Blank	BA00160-IBL1	011107a-003	01/11/07 09:22
Low Cal Check	BA00160-LCV1	011107a-004	01/11/07 09:29
Secondary Cal Check	BA00160-SCV1	011107a-005	01/11/07 09:35
Initial Cal Check	BA00160-ICV1	011107a-006	01/11/07 09:42
Interference Check A	BA00160-IFA1	011107a-008	01/11/07 09:55
Calibration Blank	BA00160-CCB1	011107a-047	01/11/07 14:25
Calibration Check	BA00160-CCV1	011107a-048	01/11/07 14:31
Blank	7A10028-BLK1	011107a-057	01/11/07 15:33
LCS	7A10028-BS1	011107a-058	01/11/07 15:40
Calibration Blank	BA00160-CCB2	011107a-060	01/11/07 15:54
Calibration Check	BA00160-CCV2	011107a-061	01/11/07 16:00
JAX47-SB089-02-113006	7A10028-MS1	011107a-062	01/11/07 16:07
JAX47-SB089-02-113006	7A10028-MSD1	011107a-063	01/11/07 16:13
JAX47-SB093-01-112906	B610308-03	011107a-064	01/11/07 16:20
JAX47-SB104-01-112906	B610308-11	011107a-065	01/11/07 16:28
Calibration Blank	BA00160-CCB3	011107a-073	01/11/07 17:24
Calibration Check	BA00160-CCV3	011107a-074	01/11/07 17:31

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	O
JAX47-SB093-01-112906	11/29/06 09:12	11/30/06 11:35	12/19/06 18:00	*6	7.00	01/16/07 13:28	28.00	40.00	
JAX47-SB104-01-112906	11/29/06 10:03	11/30/06 11:35	12/19/06 18:00	*6	7.00	01/16/07 13:54	28.00	40.00	

* Method 1312 was leached on 12/13/06

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Calibration:	0701020		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0701020	Instrument:	JSVGCECD2
Matrix:	Water	Calibration Date:	12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0701020	Instrument:	JSVGCECD2
Matrix:	Water	Calibration Date:	12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA003-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV1	Injection Time:	11:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0982	7.280474E+07	7.15242E+07		-1.8	20
gamma-BHC	A	0.100	0.0988	6.465721E+07	6.38538E+07		-1.2	20
beta-BHC	A	0.100	0.101	2.323065E+07	2.33739E+07		0.6	20
delta-BHC	A	0.100	0.103	5.66961E+07	5.8489E+07		3.2	20
Heptachlor	A	0.100	0.0944	6.414063E+07	6.05793E+07		-5.6	20
Aldrin	A	0.100	0.0974	6.149162E+07	5.98712E+07		-2.6	20
Heptachlor epoxide	A	0.100	0.0958	5.405995E+07	5.17705E+07		-4.2	20
Chlordane-gamma	A	0.100	0.0969	5.527518E+07	5.35658E+07		-3.1	20
Chlordane-alpha	A	0.100	0.0962	5.296272E+07	5.09287E+07		-3.8	20
4,4′-DDE	A	0.100	0.0947	5.244698E+07	4.96888E+07		-5.3	20
Endosulfan I	A	0.100	0.0978	4.972951E+07	4.8629E+07		-2.2	20
Dieldrin	A	0.100	0.0956	5.436507E+07	5.19588E+07		-4.4	20
Endrin	A	0.100	0.0863	4.627937E+07	3.99162E+07		-13.7	20
4,4′-DDD	A	0.100	0.0985	4.00135E+07	3.94188E+07		-1.5	20
Endosulfan II	A	0.100	0.0970	4.442927E+07	4.3112E+07		-3.0	20
4,4′-DDT	A	0.100	0.0974	4.164772E+07	4.05581E+07		-2.6	20
Endrin aldehyde	A	0.100	0.110	3.13612E+07	3.45952E+07		10.3	20
Methoxychlor	A	0.100	0.0873	2.117353E+07	1.84836E+07		-12.7	20
Endosulfan sulfate	A	0.100	0.0974	3.673694E+07	3.5766E+07		-2.6	20
Endrin ketone	A	0.100	0.0985	4.568736E+07	4.50147E+07		-1.5	20
alpha-BHC [2C]	A	0.100	0.0949	7.552835E+07	7.17086E+07		-5.1	20
gamma-BHC [2C]	A	0.100	0.0946	6.719113E+07	6.35942E+07		-5.4	20
beta-BHC [2C]	A	0.100	0.0982	2.472905E+07	2.42768E+07		-1.8	20
delta-BHC [2C]	A	0.100	0.0982	5.850208E+07	5.74711E+07		-1.8	20
Heptachlor [2C]	A	0.100	0.0925	6.67268E+07	6.17487E+07		-7.5	20
Aldrin [2C]	A	0.100	0.0949	6.357242E+07	6.03205E+07		-5.1	20
Heptachlor epoxide [2C]	A	0.100	0.0937	5.626251E+07	5.27059E+07		-6.3	20
Chlordane-gamma [2C]	A	0.100	0.0951	5.722595E+07	5.44072E+07		-4.9	20
Chlordane-alpha [2C]	A	0.100	0.0928	5.472749E+07	5.0776E+07		-7.2	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB003-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV1	Injection Time:	11:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0946	5.341989E+07	5.0529E+07		-5.4	20
Endosulfan I [2C]	A	0.100	0.0937	5.087841E+07	4.76897E+07		-6.3	20
Dieldrin [2C]	A	0.100	0.0946	5.608619E+07	5.30549E+07		-5.4	20
Endrin [2C]	A	0.100	0.0848	4.605028E+07	3.90485E+07		-15.2	20
4,4'-DDD [2C]	A	0.100	0.0944	4.157866E+07	3.92487E+07		-5.6	20
Endosulfan II [2C]	A	0.100	0.0946	4.58875E+07	4.3398E+07		-5.4	20
4,4'-DDT [2C]	A	0.100	0.0930	4.184652E+07	3.89146E+07		-7.0	20
Endrin aldehyde [2C]	A	0.100	0.107	3.232817E+07	3.47179E+07		7.4	20
Methoxychlor [2C]	A	0.100	0.0881	2.018515E+07	1.77928E+07		-11.9	20
Endosulfan sulfate [2C]	A	0.100	0.0952	3.836149E+07	3.6509E+07		-4.8	20
Endrin ketone [2C]	A	0.100	0.0971	4.596086E+07	4.46266E+07		-2.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA014-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV2	Injection Time:	16:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.109	7.280474E+07	7.95299E+07		9.2	20
gamma-BHC	A	0.100	0.109	6.465721E+07	7.0638E+07		9.2	20
beta-BHC	A	0.100	0.111	2.323065E+07	2.56848E+07		10.6	20
delta-BHC	A	0.100	0.112	5.66961E+07	6.34822E+07		12.0	20
Heptachlor	A	0.100	0.102	6.414063E+07	6.55238E+07		2.2	20
Aldrin	A	0.100	0.106	6.149162E+07	6.52439E+07		6.1	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.53911E+07		2.5	20
Chlordane-gamma	A	0.100	0.106	5.527518E+07	5.86501E+07		6.1	20
Chlordane-alpha	A	0.100	0.105	5.296272E+07	5.56817E+07		5.1	20
4,4′-DDE	A	0.100	0.103	5.244698E+07	5.40006E+07		3.0	20
Endosulfan I	A	0.100	0.106	4.972951E+07	5.26073E+07		5.8	20
Dieldrin	A	0.100	0.101	5.436507E+07	5.49773E+07		1.1	20
Endrin	A	0.100	0.103	4.627937E+07	4.75369E+07		2.7	20
4,4′-DDD	A	0.100	0.104	4.00135E+07	4.16637E+07		4.1	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.58825E+07		3.3	20
4,4′-DDT	A	0.100	0.104	4.164772E+07	4.33887E+07		4.2	20
Endrin aldehyde	A	0.100	0.111	3.13612E+07	3.48143E+07		11.0	20
Methoxychlor	A	0.100	0.0919	2.117353E+07	1.9449E+07		-8.1	20
Endosulfan sulfate	A	0.100	0.104	3.673694E+07	3.81292E+07		3.8	20
Endrin ketone	A	0.100	0.101	4.568736E+07	4.59767E+07		0.6	20
alpha-BHC [2C]	A	0.100	0.105	7.552835E+07	7.91051E+07		4.7	20
gamma-BHC [2C]	A	0.100	0.104	6.719113E+07	6.96756E+07		3.7	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.66078E+07		7.6	20
delta-BHC [2C]	A	0.100	0.106	5.850208E+07	6.22052E+07		6.3	20
Heptachlor [2C]	A	0.100	0.103	6.67268E+07	6.85183E+07		2.7	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.57676E+07		3.5	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.67376E+07		0.8	20
Chlordane-gamma [2C]	A	0.100	0.104	5.722595E+07	5.96581E+07		4.3	20
Chlordane-alpha [2C]	A	0.100	0.104	5.472749E+07	5.66483E+07		3.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB014-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV2	Injection Time:	16:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.103	5.341989E+07	5.49476E+07		2.9	20
Endosulfan I [2C]	A	0.100	0.104	5.087841E+07	5.27332E+07		3.6	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.74184E+07		2.4	20
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.67802E+07		1.6	20
4,4'-DDD [2C]	A	0.100	0.103	4.157866E+07	4.2686E+07		2.7	20
Endosulfan II [2C]	A	0.100	0.103	4.58875E+07	4.72642E+07		3.0	20
4,4'-DDT [2C]	A	0.100	0.0971	4.184652E+07	4.0649E+07		-2.9	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.50331E+07		8.4	20
Methoxychlor [2C]	A	0.100	0.0939	2.018515E+07	1.89483E+07		-6.1	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.836149E+07	3.89315E+07		1.5	20
Endrin ketone [2C]	A	0.100	0.0982	4.596086E+07	4.51339E+07		-1.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00170	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L21004-BLK1)			Lab File ID: 9AKA004-0		Analyzed: 01/16/07 11:45			
2,4,5,6-TCMX	1.00	88	25 - 140	6.439	6.438	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	84	25 - 140	6.183	6.182	0.001	+/-0.3	
DBC	1.00	95	30 - 135	13.721	13.721	0	+/-0.3	
DBC [2C]	1.00	92	30 - 135	13.559	13.559	0	+/-0.3	
JAX47-SB093-01-112906 (B610308-03)			Lab File ID: 9AKA008-0		Analyzed: 01/16/07 13:28			
2,4,5,6-TCMX	1.00	87	25 - 140	6.439	6.438	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	82	25 - 140	6.183	6.182	0.001	+/-0.3	
DBC	1.00	88	30 - 135	13.721	13.721	0	+/-0.3	
DBC [2C]	1.00	87	30 - 135	13.559	13.559	0	+/-0.3	
JAX47-SB104-01-112906 (B610308-11)			Lab File ID: 9AKA009-0		Analyzed: 01/16/07 13:54			
2,4,5,6-TCMX	1.00	90	25 - 140	6.438	6.438	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	85	25 - 140	6.182	6.182	0.001	+/-0.3	
DBC	1.00	91	30 - 135	13.72	13.721	0	+/-0.3	
DBC [2C]	1.00	88	30 - 135	13.559	13.559	0	+/-0.3	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L21004-BLK1	File ID:	9AKA004-0
Prepared:	12/19/06 18:00	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/16/07 11:45	Instrument:	JSVGCECD2		
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4′-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4′-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4′-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.00	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L21004-BLK1	File ID:	9AKB004-0
Prepared:	12/19/06 18:00	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/16/07 11:45	Instrument:	JSVGCECD2		
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.885	88	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.842	84	25 - 140	
DBC	1.00	0.946	95	30 - 135	
DBC [2C]	1.00	0.923	92	30 - 135	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB089-02-113006

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21004
Laboratory ID: 6L21004-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.00300	0.999	100	60 - 130
gamma-BHC	1.00	0.00900	1.01	100	25 - 135
beta-BHC	1.00	1.31	2.41	109	65 - 125
delta-BHC	1.00	0.00900	1.04	103	45 - 135
Heptachlor	1.00	0.0210	0.938	92	40 - 130
Aldrin	1.00	ND	0.890	89	25 - 140
Heptachlor epoxide	1.00	0.0260	1.14	111	60 - 130
Chlordane-gamma	1.00	0.186	1.98	180 *	60 - 125
Chlordane-alpha	1.00	0.0380	2.20	216 *	65 - 125
4,4'-DDE	1.00	0.0720	1.04	97	35 - 140
Endosulfan I	1.00	ND	0.943	94	50 - 110
Dieldrin	1.00	0.489	1.57	108	60 - 130
Endrin	1.00	ND	1.03	103	55 - 135
4,4'-DDD	1.00	0.0660	1.18	112	25 - 150
Endosulfan II	1.00	ND	0.913	91	30 - 130
4,4'-DDT	1.00	0.701	1.78	108	45 - 140
Endrin aldehyde	1.00	ND	1.02	102	55 - 135
Methoxychlor	1.00	ND	0.919	92	55 - 150
Endosulfan sulfate	1.00	ND	0.995	100	55 - 135
Endrin ketone	1.00	0.0200	1.03	101	75 - 125
alpha-BHC [2C]	1.00	0.00400	0.954	95	60 - 130
gamma-BHC [2C]	1.00	0.00800	0.961	95	25 - 135
beta-BHC [2C]	1.00	1.28	2.26	98	65 - 125
delta-BHC [2C]	1.00	0.0120	0.998	99	45 - 135
Heptachlor [2C]	1.00	0.0250	0.913	89	40 - 130
Aldrin [2C]	1.00	ND	0.877	88	25 - 140
Heptachlor epoxide [2C]	1.00	0.0900	1.06	97	60 - 130
Chlordane-gamma [2C]	1.00	0.820	1.70	88	60 - 125
Chlordane-alpha [2C]	1.00	0.686	1.56	87	65 - 125
4,4'-DDE [2C]	1.00	0.0660	1.00	94	35 - 140
Endosulfan I [2C]	1.00	ND	1.08	108	50 - 110
Dieldrin [2C]	1.00	0.540	1.54	99	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB089-02-113006

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21004
Laboratory ID: 6L21004-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	ND	1.01	101	55 - 135
4,4'-DDD [2C]	1.00	0.198	1.31	111	25 - 150
Endosulfan II [2C]	1.00	ND	0.932	93	30 - 130
4,4'-DDT [2C]	1.00	0.678	1.68	101	45 - 140
Endrin aldehyde [2C]	1.00	ND	1.01	101	55 - 135
Methoxychlor [2C]	1.00	ND	0.949	95	55 - 150
Endosulfan sulfate [2C]	1.00	ND	0.967	97	55 - 135
Endrin ketone [2C]	1.00	0.0200	1.01	99	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	1.01	100	0.8	30	60 - 130
gamma-BHC	1.00	1.01	100	0.4	30	25 - 135
beta-BHC	1.00	2.45	113	2	30	65 - 125
delta-BHC	1.00	1.03	102	0.5	30	45 - 135
Heptachlor	1.00	0.939	92	0.1	30	40 - 130
Aldrin	1.00	0.892	89	0.2	30	25 - 140
Heptachlor epoxide	1.00	1.15	113	1	30	60 - 130
Chlordane-gamma	1.00	2.01	182 *	1	30	60 - 125
Chlordane-alpha	1.00	2.25	221 *	2	30	65 - 125
4,4'-DDE	1.00	1.06	98	2	30	35 - 140
Endosulfan I	1.00	0.947	95	0.4	30	50 - 110
Dieldrin	1.00	1.61	112	3	30	60 - 130
Endrin	1.00	1.05	105	2	30	55 - 135
4,4'-DDD	1.00	1.20	114	2	30	25 - 150
Endosulfan II	1.00	0.917	92	0.4	30	30 - 130
4,4'-DDT	1.00	1.82	112	2	30	45 - 140
Endrin aldehyde	1.00	1.03	103	2	30	55 - 135
Methoxychlor	1.00	0.930	93	1	30	55 - 150
Endosulfan sulfate	1.00	0.997	100	0.2	30	55 - 135
Endrin ketone	1.00	1.02	100	0.6	30	75 - 125
alpha-BHC [2C]	1.00	0.958	95	0.4	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21004	Laboratory ID:	6L21004-MSD1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.961	95	0	30	25 - 135
beta-BHC [2C]	1.00	2.29	101	1	30	65 - 125
delta-BHC [2C]	1.00	0.989	98	0.9	30	45 - 135
Heptachlor [2C]	1.00	0.916	89	0.3	30	40 - 130
Aldrin [2C]	1.00	0.881	88	0.5	30	25 - 140
Heptachlor epoxide [2C]	1.00	1.06	98	0.7	30	60 - 130
Chlordane-gamma [2C]	1.00	1.74	92	2	30	60 - 125
Chlordane-alpha [2C]	1.00	1.59	90	2	30	65 - 125
4,4'-DDE [2C]	1.00	1.02	95	1	30	35 - 140
Endosulfan I [2C]	1.00	1.08	108	0.7	30	50 - 110
Dieldrin [2C]	1.00	1.56	102	2	30	60 - 130
Endrin [2C]	1.00	1.02	102	2	30	55 - 135
4,4'-DDD [2C]	1.00	1.30	110	0.5	30	25 - 150
Endosulfan II [2C]	1.00	0.907	91	3	30	30 - 130
4,4'-DDT [2C]	1.00	1.70	102	0.8	30	45 - 140
Endrin aldehyde [2C]	1.00	1.03	103	1	30	55 - 135
Methoxychlor [2C]	1.00	0.951	95	0.2	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.963	96	0.4	30	55 - 135
Endrin ketone [2C]	1.00	1.00	98	0.6	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21004
Laboratory ID: 6L21004-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.975	98	60 - 130
gamma-BHC	1.00	0.988	99	25 - 135
beta-BHC	1.00	1.02	102	65 - 125
delta-BHC	1.00	0.961	96	45 - 135
Heptachlor	1.00	0.917	92	40 - 130
Aldrin	1.00	0.908	91	25 - 140
Heptachlor epoxide	1.00	0.960	96	60 - 130
Chlordane-gamma	1.00	0.972	97	60 - 125
Chlordane-alpha	1.00	0.966	97	65 - 125
4,4'-DDE	1.00	0.962	96	35 - 140
Endosulfan I	1.00	0.977	98	50 - 110
Dieldrin	1.00	0.966	97	60 - 130
Endrin	1.00	0.906	91	55 - 135
4,4'-DDD	1.00	0.982	98	25 - 150
Endosulfan II	1.00	0.980	98	30 - 130
4,4'-DDT	1.00	0.975	98	45 - 140
Endrin aldehyde	1.00	1.11	111	55 - 135
Methoxychlor	1.00	0.872	87	55 - 150
Endosulfan sulfate	1.00	0.979	98	55 - 135
Endrin ketone	1.00	0.978	98	75 - 125
alpha-BHC [2C]	1.00	0.944	94	60 - 130
gamma-BHC [2C]	1.00	0.945	94	25 - 135
beta-BHC [2C]	1.00	0.992	99	65 - 125
delta-BHC [2C]	1.00	0.933	93	45 - 135
Heptachlor [2C]	1.00	0.914	91	40 - 130
Aldrin [2C]	1.00	0.897	90	25 - 140
Heptachlor epoxide [2C]	1.00	0.943	94	60 - 130
Chlordane-gamma [2C]	1.00	0.957	96	60 - 125
Chlordane-alpha [2C]	1.00	0.939	94	65 - 125
4,4'-DDE [2C]	1.00	0.960	96	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21004	Laboratory ID:	6L21004-BS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.948	95	50 - 110
Dieldrin [2C]	1.00	0.957	96	60 - 130
Endrin [2C]	1.00	0.901	90	55 - 135
4,4'-DDD [2C]	1.00	0.963	96	25 - 150
Endosulfan II [2C]	1.00	0.960	96	30 - 130
4,4'-DDT [2C]	1.00	0.942	94	45 - 140
Endrin aldehyde [2C]	1.00	1.07	107	55 - 135
Methoxychlor [2C]	1.00	0.881	88	55 - 150
Endosulfan sulfate [2C]	1.00	0.957	96	55 - 135
Endrin ketone [2C]	1.00	0.958	96	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB093-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-03	File ID:	9AKA008-0
Sampled:	11/29/06 09:12	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 13:28
Solids:	98.29	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21004	Sequence:	BA00170		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.545	10.95643	0.411		0.002	0.0
Chlordane-gamma	* 1	10.74	11.14771	0.408		0.005	0.0
Chlordane-alpha	1	10.935	11.34971	0.415		0.017	466.7
4,4'-DDE	* 1	11.096	11.48286	0.387		0.028	21.7
Dieldrin	* 1	11.501	11.91886	0.418		0.009	350.0
Endrin	* 1	11.911	12.26457	0.354		0.002	0.0
4,4'-DDD	* 1	11.988	12.37786	0.39		0.061	1.6
4,4'-DDT	* 1	12.391	12.78071	0.39		0.033	0.0
Heptachlor epoxide	2	10.304	10.67843	0.374		0.002	0.0
Chlordane-gamma	2	10.599	10.97329	0.374		0.005	0.0
Chlordane-alpha	* 2	10.821	11.19143	0.37		0.003	466.7
4,4'-DDE	2	11.118	11.47543	0.357		0.023	21.7
Dieldrin	2	11.298	11.67429	0.376		0.002	350.0
4,4'-DDD	2	11.967	12.32514	0.358		0.062	1.6
4,4'-DDT	2	12.412	12.77157	0.36		0.033	0.0
2,4,5,6-TCMX	* 1	6.439	6.848286	0.409		0.866	5.6
2,4,5,6-TCMX	2	6.183	6.564286	0.381		0.820	5.6
DBC	* 1	13.721	14.10214	0.381		0.879	1.3
DBC	2	13.559	13.90914	0.35		0.868	1.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB104-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610308-11	File ID:	9AKA009-0
Sampled:	11/29/06 10:03	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 13:54
Solids:	89.81	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21004	Sequence:	BA00170		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	10.74	11.14771	0.408		0.006	16.7
Chlordane-alpha	1	10.938	11.34971	0.412		0.019	280.0
4,4'-DDE	* 1	11.101	11.48286	0.382		0.004	0.0
Dieldrin	* 1	11.498	11.91886	0.421		0.013	333.3
4,4'-DDD	* 1	11.987	12.37786	0.391		0.092	3.3
4,4'-DDT	* 1	12.391	12.78071	0.39		0.026	4.0
Chlordane-gamma	2	10.599	10.97329	0.374		0.007	16.7
Chlordane-alpha	* 2	10.821	11.19143	0.37		0.005	280.0
Dieldrin	2	11.298	11.67429	0.376		0.003	333.3
4,4'-DDD	2	11.967	12.32514	0.358		0.095	3.3
4,4'-DDT	2	12.412	12.77157	0.36		0.025	4.0
2,4,5,6-TCMX	* 1	6.438	6.848286	0.41		0.898	5.3
2,4,5,6-TCMX	2	6.182	6.564286	0.382		0.853	5.3
DBC	* 1	13.72	14.10214	0.382		0.907	3.0
DBC	2	13.559	13.90914	0.35		0.881	3.0

* Column used for quantitation

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-007

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.001	0.05	ug/L
gamma-BHC	0.002	0.05	ug/L
beta-BHC	0.002	0.05	ug/L
delta-BHC	0.001	0.05	ug/L
Heptachlor	0.001	0.05	ug/L
Aldrin	0.002	0.05	ug/L
Heptachlor epoxide	0.001	0.05	ug/L
Chlordane-gamma	0.001	0.05	ug/L
Chlordane-alpha	0.001	0.05	ug/L
4,4′-DDE	0.002	0.05	ug/L
Endosulfan I	0.002	0.05	ug/L
Dieldrin	0.0008	0.05	ug/L
Endrin	0.002	0.05	ug/L
4,4′-DDD	0.0004	0.05	ug/L
Endosulfan II	0.002	0.05	ug/L
4,4′-DDT	0.002	0.05	ug/L
Endrin aldehyde	0.009	0.05	ug/L
Methoxychlor	0.003	0.05	ug/L
Endosulfan sulfate	0.002	0.05	ug/L
Endrin ketone	0.003	0.05	ug/L
Toxaphene	0.05	1	ug/L
alpha-BHC [2C]	0.001	0.05	ug/L
gamma-BHC [2C]	0.002	0.05	ug/L
beta-BHC [2C]	0.002	0.05	ug/L
delta-BHC [2C]	0.001	0.05	ug/L
Heptachlor [2C]	0.001	0.05	ug/L
Aldrin [2C]	0.002	0.05	ug/L
Heptachlor epoxide [2C]	0.001	0.05	ug/L
Chlordane-gamma [2C]	0.001	0.05	ug/L
Chlordane-alpha [2C]	0.001	0.05	ug/L
4,4'-DDE [2C]	0.002	0.05	ug/L
Endosulfan I [2C]	0.002	0.05	ug/L
Dieldrin [2C]	0.0008	0.05	ug/L
Endrin [2C]	0.002	0.05	ug/L
4,4'-DDD [2C]	0.0004	0.05	ug/L
Endosulfan II [2C]	0.002	0.05	ug/L
4,4'-DDT [2C]	0.002	0.05	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-007

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.009	0.05	ug/L
Methoxychlor [2C]	0.003	0.05	ug/L
Endosulfan sulfate [2C]	0.002	0.05	ug/L
Endrin ketone [2C]	0.003	0.05	ug/L
Toxaphene [2C]	0.05	1	ug/L

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L21004 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L21004-BLK1	9AKB004-0	12/19/06 18:00	
Blank	6L21004-BLK1	9AKA004-0	12/19/06 18:00	
LCS	6L21004-BS1	9AKB005-0	12/19/06 18:00	
LCS	6L21004-BS1	9AKA005-0	12/19/06 18:00	
JAX47-SB089-02-113006	6L21004-MS1	9AKB006-0	12/19/06 18:00	
JAX47-SB089-02-113006	6L21004-MS1	9AKA006-0	12/19/06 18:00	
JAX47-SB089-02-113006	6L21004-MSD1	9AKB007-0	12/19/06 18:00	
JAX47-SB089-02-113006	6L21004-MSD1	9AKA007-0	12/19/06 18:00	
JAX47-SB093-01-112906	B610308-03	9AKB008-0	12/19/06 18:00	
JAX47-SB093-01-112906	B610308-03	9AKA008-0	12/19/06 18:00	
JAX47-SB104-01-112906	B610308-11	9AKB009-0	12/19/06 18:00	
JAX47-SB104-01-112906	B610308-11	9AKA009-0	12/19/06 18:00	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00170	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00170-IBL1	9AKB001-0	01/16/07 10:28
Instrument Blank	BA00170-IBL1	9AKA001-0	01/16/07 10:28
Performance Mix	BA00170-PEM1	9AKB002-0	01/16/07 10:54
Performance Mix	BA00170-PEM1	9AKA002-0	01/16/07 10:54
Calibration Check	BA00170-CCV1	9AKB003-0	01/16/07 11:19
Calibration Check	BA00170-CCV1	9AKA003-0	01/16/07 11:19
Blank	6L21004-BLK1	9AKB004-0	01/16/07 11:45
Blank	6L21004-BLK1	9AKA004-0	01/16/07 11:45
LCS	6L21004-BS1	9AKA005-0	01/16/07 12:11
LCS	6L21004-BS1	9AKB005-0	01/16/07 12:11
JAX47-SB089-02-113006	6L21004-MS1	9AKA006-0	01/16/07 12:37
JAX47-SB089-02-113006	6L21004-MS1	9AKB006-0	01/16/07 12:37
JAX47-SB089-02-113006	6L21004-MSD1	9AKA007-0	01/16/07 13:02
JAX47-SB089-02-113006	6L21004-MSD1	9AKB007-0	01/16/07 13:02
JAX47-SB093-01-112906	B610308-03	9AKB008-0	01/16/07 13:28
JAX47-SB093-01-112906	B610308-03	9AKA008-0	01/16/07 13:28
JAX47-SB104-01-112906	B610308-11	9AKB009-0	01/16/07 13:54
JAX47-SB104-01-112906	B610308-11	9AKA009-0	01/16/07 13:54
Calibration Check	BA00170-CCV2	9AKA014-0	01/16/07 16:03
Calibration Check	BA00170-CCV2	9AKB014-0	01/16/07 16:03
Calibration Check	BA00170-CCV3	9AKB021-0	01/16/07 19:18
Calibration Check	BA00170-CCV3	9AKA021-0	01/16/07 19:18

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00212-PEM1	9LGB002-0	12/12/06 16:59
Performance Mix	BA00212-PEM1	9LGA002-0	12/12/06 16:59
Cal Standard	BA00212-CAL1	9LGA004-0	12/12/06 18:03
Cal Standard	BA00212-CAL1	9LGB004-0	12/12/06 18:03
Cal Standard	BA00212-CAL2	9LGA005-0	12/12/06 18:29
Cal Standard	BA00212-CAL2	9LGB005-0	12/12/06 18:29
Cal Standard	BA00212-CAL3	9LGB006-0	12/12/06 18:55
Cal Standard	BA00212-CAL3	9LGA006-0	12/12/06 18:55
Cal Standard	BA00212-CAL4	9LGB007-0	12/12/06 19:21
Cal Standard	BA00212-CAL4	9LGA007-0	12/12/06 19:21
Cal Standard	BA00212-CAL5	9LGA008-0	12/12/06 19:47
Cal Standard	BA00212-CAL5	9LGB008-0	12/12/06 19:47
Cal Standard	BA00212-CAL6	9LGA009-0	12/12/06 20:13
Cal Standard	BA00212-CAL6	9LGB009-0	12/12/06 20:13
Cal Standard	BA00212-CAL7	9LGB010-0	12/12/06 20:39
Cal Standard	BA00212-CAL7	9LGA010-0	12/12/06 20:39

PREPARATION BENCH SHEET

Printed: 12/21/06 6:56:57AM

Analysis
SPLP 8081A

6L21004

ENCO Jacksonville

Prepared using: EPA 3510C

Surrogate Solution
B6L0044 8081 - 608/8081/8082 Surrogate

Spiking Solution
B6I0003 8081 - 608/8081 Spike

Seq. BA00170

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	Prepared 12 19 06	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	pH adj	Extraction Comments
6L21004-BLK1		Blank		QC	12 [illegible]	500	5.0		500		
6L21004-BS1		LCS		QC	12 19 06			500	500		
6L21004-MS1		Matrix Spike [B610372-01]		QC				500	500		
6L21004-MSD1		Matrix Spike Dup [B610372-01]		QC				500	500		
B610308-03	D	JAX47-SB093-01-112906 A 02[E2	07-Dec-06	SPLP 8081A					500		
B610308-11	D	JAX47-SB104-01-112906 A 02[E2	07-Dec-06	SPLP 8081A					500		
B610372-01	D	JAX47-SB089-02-113006 C 02[E2	08-Dec-06	SPLP 8081A					500		
B610372-02	D	JAX47-SB089-05-113006 A 03[E2	08-Dec-06	SPLP 8081A					500		
B610372-03	D	JAX47-SB096-01-113006 A 02[E2	08-Dec-06	SPLP 8081A					500		
B610372-07	D	JAX47-SB099-01-113006 A 02[E2	08-Dec-06	SPLP 8081A					500		

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture
B6J0160	Methylene Chloride Tank	60602
B6K0094	SODIUM SULFATE	Solvent Lot #
B6L0055	Hexane UV	59972

Spiking Witnessed By Date

MJ SM 12 19 06

Preparation Reviewed By Date

Extracts Received By Date 221

Logbook ID: JAJK

SPLP Extraction Log
SW-846 Method 1312

Print Date: 10/19/2006 3:12 PM

Sample	Parameters(circle)	Date/Time Extr.Started	Date/Time Extr. Stopped	Extraction Fluid ID	Analysts Init.	Comments
~~BLK-B610719-01~~ Extraction Blank	8270 (8081) 8151 8260 (Metals) Other	12/12/06 20:00	12/13/06 14:42	~~EAST~~	PL	6L09004
B610515-12	8270, 8081, 8151 (8260) Metals Other	12/9/06 15:00	12/10/06 9:42	EAST	PL	(PL) 12/9 ~~6K1601~~
B610308-03	8270 (8081) 8151 8260 (Metals) Other	12/12/06 20:00	12/13/06 14:42	~~EAST~~	PL	
↓ -11	8270 (8081) 8151 8260 (Metals) Other					
B610373-07	8270 (8081) 8151 8260 (Metals) Other					
-05	8270 (8081) 8151 8260 (Metals) Other					
-03	8270 (8081) 8151 8260 (Metals) Other					
↓ -01	MS/MSD 8270 (8081) 8151 8260 (Metals) Other					
B610372-02	8270 (8081) 8151 8260 (Metals) Other					
-01	MS/MSD 8270 (8081) 8151 8260 (Metals) Other					
-03	8270 (8081) 8151 8260 (Metals) Other					
-07	8270 (8081) 8151 8260 (Metals) Other					
B610375-01	MS/MSD 8270 (8081) 8151 8260 (Metals) Other					
-02	8270 (8081) 8151 8260 (Metals) Other					
B610375-11	8270 (8081) 8151 8260 (Metals) Other	12/13/06 18:00	12/14/06 12:42	EAST	PL	6L ~~04004~~ 13022 (PL) 12/13
-13	8270 (8081) 8151 8260 (Metals) Other					
-15	8270 (8081) 8151 8260 (Metals) Other					
B610377-03	8270 (8081) 8151 8260 (Metals) Other					
	8270, 8081, 8151 8260 Metals Other					
	8270, 8081, 8151 ~~8260 Metals Other~~	(PL) 12/14				
	8270, 8081, 8151 ~~8260 Metals Other~~					

satch 6L13022 on next page w. new BLK

(PL) 12/14

Rotation 30 rpm Date: 12/12/06
12/9/06
12/12/06
12/13/06

Prepared: 10-Jan-07 16:07	7A10028	Printed: 1/10/07 4:08:47PM

ENCO Jacksonville

Matrix: Water

Prepared using: METALS - EPA 3010A

Sample ID	Sample ID . Source Sample and Location	AMT DIGESTED mL g L	Final Vol (mL)	Due Date	Spike Amount uL 1 | 2	Comments
7A10028-BLK1	Blank	50	50		|	95C
7A10028-BS1	LCS	50	50		500 | 500	
7A10028-MS1	Matrix Spike [B610372-01]				500 | 500	
7A10028-MSD1	Matrix Spike Dup [B610372-01]				500 | 500	
B610308-03	JAX47-SB093-01-112906 A 01[S2			16-Jan-07	Tetra Tech NUS (BR006)	
B610308-11	JAX47-SB104-01-112906 A 01[S2			16-Jan-07	Tetra Tech NUS (BR006)	
B610372-01	JAX47-SB089-02-113006 C 01[S2			16-Jan-07	Tetra Tech NUS (BR006)	
B610372-02	JAX47-SB089-05-113006 A 01[S2			16-Jan-07	Tetra Tech NUS (BR006)	
B810372-03	JAX47-SB096-01-113006 A 01[S2			16-Jan-07	Tetra Tech NUS (BR006)	
B610372-07	JAX47-SB099-01-113006 A 01[S2			16-Jan-07	Tetra Tech NUS (BR006)	

Standard(s):		
B7A0007	ICP Spike A / QCS-1	500 uL

Standard ID#	Description	Manufacture Lot#

B7A0008	ICP Spike B / QCS-1	500 uL

BRV 1/10/07

Prepared By Date

Preparation Reviewed By Date

Logbook ID: JAJK

SPLP Extraction Log
SW-846 Method 1312

Print Date: 10/19/2006 3:12 PM

Sample	Parameters(circle)	Date/Time Extr.Started	Date/Time Extr. Stopped	Extraction Fluid ID	Analysts Init.	Comments
BLK-B610719-01 Extraction Blank	8270 (8081) 8151 8260 (Metals) Other	12/12/06 20:00	12/13/06 14:42	EAST	PL	6L09004
B610515-12	8270, 8081, 8151 8260 (Metals) Other	12/9/06 15:00	12/10/06 9:42	EAST	PL	(PL) 12/9 ~~6K1601~~
B610308-03	8270 (8081) 8151 8260 (Metals) Other	12/12/06 20:00	12/13/06 14:42	EAST	PL	
-11	8270 (8081) 8151 8260 (Metals) Other					
B610373-07	8270 (8081) 8151 8260 (Metals) Other					
-05	8270 (8081) 8151 8260 (Metals) Other					
-03	8270 (8081) 8151 8260 (Metals) Other					
-01	MS/MSD 8270 (8081) 8151 8260 (Metals) Other					
B610372-02	8270 (8081) 8151 8260 (Metals) Other					
-01	MS/MSD 8270 (8081) 8151 8260 (Metals) Other					
-03	8270 (8081) 8151 8260 (Metals) Other					
-07	8270 (8081) 8151 8260 (Metals) Other					
B610375-01	MS/MSD 8270 (8081) 8151 8260 (Metals) Other					
-02	8270 (8081) 8151 8260 (Metals) Other					
B610375-11	8270 (8081) 8151 8260 (Metals) Other	12/13/06 18:00	12/14/06 12:42	EAST	PL	6L13022 ~~6L09004~~ (PL) 12/13
-13	8270 (8081) 8151 8260 (Metals) Other					
-15	8270 (8081) 8151 8260 (Metals) Other					
B610377-03	8270 (8081) 8151 8260 (Metals) Other					
	8270, 8081, 8151 8260 Metals Other					
	8270, 8081, 8151 ~~8260 Metals Other~~	(PL) 12/14				
	8270, 8081, 8151 ~~8260 Metals Other~~					

batch 6L13022 on next page w/ new BLK

(PL) 12/14

Rotation 30 rpm Date: 12/12/06
12/9/06
12/12/06
12/13/06

SRV: JAX47-SB104-01-112906 [As] = < 0.004 mg/L

Sb 206.833	-2.9	-0.0006	0.00449	mg/L	-0.0006	0.00449	mg/L	742.26 %
Se 196.026	8.3	0.0023	0.00198	mg/L	0.0023	0.00198	mg/L	86.63 %
Sn 189.933	9.1	0.0011	0.00088	mg/L	0.0011	0.00088	mg/L	76.89 %
Sr 421.539R	1,409.9	0.0020	0.00019	mg/L	0.0020	0.00019	mg/L	9.63 %
Ti 337.280	12,783.9	0.0162	0.00031	mg/L	0.0162	0.00031	mg/L	1.92 %
Tl 190.800	3.8	0.0013	0.00092	mg/L	0.0013	0.00092	mg/L	70.91 %
V 292.402	217.1	0.0007	0.00024	mg/L	0.0007	0.00024	mg/L	33.74 %
Zn 206.191	608.1	0.0077	0.00028	mg/L	0.0077	0.00028	mg/L	3.65 %

Mean Data

ID: b610308-11 **Seq. No.:** 65 **A/S Pos:** 63

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2007/01/11 16:25:58

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	176,743.8	101	0.3	%			%	0.31 %
Y361.105A	1,524,720.3	104	1.2	%			%	1.14 %
Ag 338.289	-314.1	-0.0001	0.00032	mg/L	-0.0001	0.00032	mg/L	283.44 %
Ag 328.068	-271.1	-0.0006	0.00016	mg/L	-0.0006	0.00016	mg/L	26.24 %
Al 308.215	19,112.7	9.51	0.154	mg/L	9.51	0.154	mg/L	1.61 %
As 188.979	9.9	0.0030	0.00204	mg/L	0.0030	0.00204	mg/L	67.48 %
Ba 233.527	11,526.2	0.0522	0.00054	mg/L	0.0522	0.00054	mg/L	1.03 %
Be 313.107	5,921.0	0.0007	0.00002	mg/L	0.0007	0.00002	mg/L	2.97 %
B 208.959	2,764.3	0.1210	0.00168	mg/L	0.1210	0.00168	mg/L	1.39 %
Ca 317.933	2,431,234.2	8.014	0.0162	mg/L	8.014	0.0162	mg/L	0.20 %
Ca Radial	175,979.1	8.170	0.4164	mg/L	8.170	0.4164	mg/L	5.10 %
Cd 226.502	77.2	0.0002	0.00015	mg/L	0.0002	0.00015	mg/L	99.10 %
Co 228.616	50.5	0.0003	0.00016	mg/L	0.0003	0.00016	mg/L	61.58 %

SRV: JAX47-SB093-01-112906 [Gamma-Chlordane] = 0.005 ug/L

Software Version: 4.1<1L22>
Sample Name : b610308-03 Time : 1/18/07 12:18 PM
Sample Number: 8 Study : 8081 splp
Operator : jbh

Instrument : JSVGCECD2 Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 4207271739 Data Acquisition Time: 1/16/07 01:28 PM
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 4.1660 pts/sec

Raw Data File : C:\TC4\HP6890\9AKA008.RAW
Result File : C:\TC4\HP6890\9AKA008.RST
Inst Method : C:\TC4\HP6890\608-2 from C:\TC4\HP6890\9AKA008.RST
Proc Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9AKA008.RST
Calib Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9AKA008.RST
Sequence File : C:\TC4\METHODS\9AK.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

manually adjusted baseline
JAA 1/15/07

Environmental Conservation Laboratories

PRIMARY COLUMN (DETECTOR A) STX-Clpesticide 30M .32id .50DF
EPA 8081 Analysis Curve 0.005mg/L --> 0.2mg/L (8081a9lg on 12/12/06)
1 ppm TCMX(surr) and DBC(surr)
1 ppm CVS / LCS Injection volume = 1.0 ul

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
16	6.439	2,4,5,6-TCMX	3846590.39	0.0866	0.0866
0	7.631	ALPHA-BHC	0.00	0.0000	0.0000
0	8.237	GAMMA-BHC (LINDANE)	0.00	0.0000	0.0000
0	8.431	BETA-BHC	0.00	0.0000	0.0000
0	8.736	DELTA-BHC	0.00	0.0000	0.0000
24	9.094	HEPTACHLOR	10458.47	~~0.0002~~ NC	0.0002
0	9.570	ALDRIN	0.00	0.0000	0.0000
0	10.114	ISODRIN	0.00	0.0000	0.0000
30	10.545	HEPTACHLOR EPOXIDE	8261.13	0.0002	0.0002
31	10.740	chlordane gamma	27855.09	0.0005	0.0005
34	10.935	chlordane alpha	91206.32	0.0017	0.0017 (0.0005) Brad
35	11.096	4,4'-DDE	145297.65	0.0028	0.0028
0	11.164	ENDOSULFAN I	0.00	0.0000	0.0000
38	11.501	DIELDRIN	48711.00	0.0009	0.0009
41	11.911	ENDRIN	10009.60	0.0002	0.0002
42	11.988	4,4'-DDD	243975.10	0.0061	0.0061
44	12.191	ENDOSULFAN II	125768.02	~~0.0028~~ NC	0.0028
46	12.391	4,4'-DDT	138808.21	0.0033	0.0033
48	12.776	ENDRIN ALDEHYDE	67335.58	~~0.0021~~ NC	0.0021

$\frac{27855.09}{55275180} = \frac{0.00050\ mg}{L} \cdot \frac{5\ mL}{500\ mL} \cdot \frac{1000\ ug}{1\ mg}$

$= 0.005\ ug/L$

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**FEBRUARY 26, 2007**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC / SPLP ARSENIC**
NAS JACKSONVILLE – CTO 047
SAMPLE DELIVERY GROUP (SDG) – BR006-007

SAMPLES: 2/Leachates/

JAX47-SB093-01-112906 JAX47-SB104-01-112906

20/Soils/

JAX47-SB092-01-112906	JAX47-SB092-06-112906
JAX47-SB093-01-112906	JAX47-SB093-06-112906
JAX47-SB101-01-112906	JAX47-SB101-05-112906
JAX47-SB102-01-112906	JAX47-SB102-05-112906
JAX47-SB103-01-112906	JAX47-SB103-05-112906
JAX47-SB104-01-112906	JAX47-SB104-05-112906
JAX47-SB108-01-112906	JAX47-SB108-06-112906
JAX47-SB109-01-112906	JAX47-SB109-06-112906
JAX47-SB111-01-112906	JAX47-SB111-05-112906
JAX47-SB112-01-112906	JAX47-SB112-05-112906

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-007, consists of two (2) leachate and twenty (20) soil environmental samples. No field duplicate pairs were included in this SDG.

All samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS, Inc. on November 29, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using EPA methods 1312/3050B and 6010B methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Notes

Arsenic reported for sample JAX47-SB104-01-112906 was analyzed at a 5X dilution.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines *for Inorganic Data Review*", *October 2004*.

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Chemist / Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Appendix A
Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: SPLPM

nsample	JAX47-SB093-01-112906	nsample	JAX47-SB104-01-112906
samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-03	lab_id	B610308-11
qc_type	NM	qc_type	NM
units	MG/L	units	MG/L
Pct_Solids	98.3	Pct_Solids	89.8
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB092-01-112906	nsample	JAX47-SB092-06-112906	nsample	JAX47-SB093-01-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-01	lab_id	B610308-02	lab_id	B610308-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	99.2	Pct_Solids	96.2	Pct_Solids	98.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	6.1		

Parameter	Result	Val Qual	Qual Code
ARSENIC	27.9		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2		

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB093-06-112906	nsample	JAX47-SB101-01-112906	nsample	JAX47-SB101-05-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-04	lab_id	B610308-05	lab_id	B610308-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	84.7	Pct_Solids	71.6	Pct_Solids	83.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.6		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB102-01-112906	nsample	JAX47-SB102-05-112906	nsample	JAX47-SB103-01-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-07	lab_id	B610308-08	lab_id	B610308-09
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	97.5	Pct_Solids	97.3	Pct_Solids	91.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	. U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	47.4		

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB103-05-112906	nsample	JAX47-SB104-01-112906	nsample	JAX47-SB104-05-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-10	lab_id	B610308-11RE1	lab_id	B610308-12
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	74.1	Pct_Solids	89.8	Pct_Solids	89.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3		

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.1	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB108-01-112906	nsample	JAX47-SB108-06-112906	nsample	JAX47-SB109-01-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-13	lab_id	B610308-14	lab_id	B610308-15
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	97.3	Pct_Solids	93.2	Pct_Solids	96.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.8		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB109-06-112906	nsample	JAX47-SB111-01-112906	nsample	JAX47-SB111-05-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-16	lab_id	B610308-17	lab_id	B610308-18
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	90.3	Pct_Solids	96.0	Pct_Solids	72.9
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.5		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	

PROJ_NO: 00497

SDG: BR006-007 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB112-01-112906	nsample	JAX47-SB112-05-112906
samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610308-19	lab_id	B610308-20
qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG
Pct_Solids	74.2	Pct_Solids	74.3
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	

Appendix B
Results as reported by the Laboratory

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB093-01-112906

Laboratory: ENCO Jacksonville — SDG: BR006-007

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610308-03 — File ID: 011107a-064

Sampled: 11/29/06 09:12 — Prepared: 01/10/07 16:07 — Analyzed: 01/11/07 16:20

Solids: 98.29 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10028 — Sequence: BA00160 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB104-01-112906

Laboratory: ENCO Jacksonville — SDG: BR006-007

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610308-11 — *File ID:* 011107a-065

Sampled: 11/29/06 10:03 — Prepared: 01/10/07 16:07 — Analyzed: 01/11/07 16:28

Solids: 89.81 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10028 — Sequence: BA00160 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB092-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-01 | File ID: 122106a-014

Sampled: 11/29/06 09:30 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 17:27

Solids: 99.17 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	6.1	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB092-06-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: *soil* | *Laboratory ID:* *B610308-02* | *File ID:* *122106a-015*

Sampled: 11/29/06 09:36 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 17:34

Solids: 96.17 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	27.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB093-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: *soil* | *Laboratory ID:* *B610308-03* | File ID: *122106a-016*

Sampled: 11/29/06 09:12 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 17:41

Solids: 98.29 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.2	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB093-06-112906

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610308-04 *File ID:* 122106a-017

Sampled: 11/29/06 09:21 Prepared: 12/15/06 11:08 Analyzed: 12/21/06 17:47

Solids: 84.67 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15008 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.6	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB101-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-05 | *File ID:* 122106a-018

Sampled: 11/29/06 14:24 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 17:54

Solids: 71.64 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.7	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB101-05-112906

Laboratory: ENCO Jacksonville — SDG: BR006-007

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610308-06 — File ID: 122106a-019

Sampled: 11/29/06 14:35 — Prepared: 12/15/06 11:08 — Analyzed: 12/21/06 18:02

Solids: 83.46 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15008 — Sequence: BA00116 — Calibration: 0612017 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB102-01-112906

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610308-07 *File ID:* 122106a-023

Sampled: 11/29/06 14:49 Prepared: 12/15/06 11:08 Analyzed: 12/21/06 18:28

Solids: 97.48 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15008 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.3	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB102-05-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-08 | *File ID:* 122106a-024

Sampled: 11/29/06 15:03 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 18:35

Solids: 97.30 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB103-01-112906

Laboratory: ENCO Jacksonville — SDG: BR006-007

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610308-09 — *File ID:* 122106a-025

Sampled: 11/29/06 10:35 — Prepared: 12/15/06 11:08 — Analyzed: 12/21/06 18:42

Solids: 91.03 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15008 — Sequence: BA00116 — Calibration: 0612017 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	47.4	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB103-05-112906

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: *soil* *Laboratory ID:* *B610308-10* *File ID:* *122106a-026*

Sampled: 11/29/06 11:00 Prepared: 12/15/06 11:08 Analyzed: 12/21/06 18:49

Solids: 74.11 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15008 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.3	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB104-01-112906

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610308-11RE1 *File ID:* 122206a-010

Sampled: 11/29/06 10:03 Prepared: 12/15/06 11:08 Analyzed: 12/22/06 14:04

Solids: 89.81 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15008 Sequence: BA00117 Calibration: 0612018 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	2.8	5	UD	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB104-05-112906

Laboratory: ENCO Jacksonville — SDG: BR006-007

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610308-12 — File ID: 122106a-028

Sampled: 11/29/06 10:14 — Prepared: 12/15/06 11:08 — Analyzed: 12/21/06 19:03

Solids: 89.07 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15008 — Sequence: BA00116 — Calibration: 0612017 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB108-01-112906

Laboratory: ENCO Jacksonville — SDG: BR006-007

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610308-13 — *File ID:* 122106a-029

Sampled: 11/29/06 08:33 — Prepared: 12/15/06 11:08 — Analyzed: 12/21/06 19:10

Solids: 97.32 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15008 — Sequence: BA00116 — Calibration: 0612017 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.8	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB108-06-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-14 | File ID: 122106a-030

Sampled: 11/29/06 08:49 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 19:17

Solids: 93.18 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.2	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB109-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-15 | *File ID:* 122106a-031

Sampled: 11/29/06 09:19 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 19:24

Solids: 96.15 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB109-06-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-16 | *File ID:* 122106a-032

Sampled: 11/29/06 09:45 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 19:31

Solids: 90.28 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB111-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-17 | *File ID:* 122106a-036

Sampled: 11/29/06 13:12 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 19:58

Solids: 96.05 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB111-05-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-18 | File ID: 122106a-037

Sampled: 11/29/06 13:20 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 20:05

Solids: 72.89 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.7	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB112-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-007

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610308-19 | *File ID:* 122106a-038

Sampled: 11/29/06 12:52 | Prepared: 12/15/06 11:08 | Analyzed: 12/21/06 20:12

Solids: 74.20 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15008 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.7	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB112-05-112906

Laboratory: ENCO Jacksonville SDG: BR006-007

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610308-20 *File ID:* 122106a-039

Sampled: 11/29/06 13:00 Prepared: 12/15/06 11:08 Analyzed: 12/21/06 20:19

Solids: 74.30 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15008 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.7	1	U	EPA 6010B

Appendix C
Support Documentation

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following *signatures*.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 08:44:24 -05'00'

Christina M. Tompkins
Project Manager

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- JAX47-SB104-01-112906 was re-run as a dilution due to matrix interference.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Surrogate 2,4,5,6-TCMX for JAX47-SB092-01-112906, JAX47-SB092-06-112906, JAX47-SB093-01-112906, JAX47-SB101-05-112906, JAX47-SB103-01-112906, JAX47-SB112-01-112906, JAX47-SB112-05-112906 were outside the DoD QSM control limits. The data was accepted based on the surrogate DBC being within the DoD QSM control limits.
- Methoxychlor for Continuing Calibration Verification Standard resulted outside and below the DoD QSM limit. Any sample result associated with this standard/compound is considered to be estimated bias low.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.17 15:53:52 -05'00'

Christina M. Tompkins
Project Manager

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	SW-846 8081A	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	SW-846 8081A	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	SW-846 6010B or 6020	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	SW-846 6010B or 6020	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	SW-846 8081A	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	SW-846 6010B or 6020	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	SW-846 8081A	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	SW-846 6010B or 6020	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	SW-846 8081A	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	SW-846 6010B or 6020	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	SW-846 8081A	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	SW-846 6010B or 6020	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	SW-846 8081A	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	SW-846 6010B or 6020	JAX47-SB104-05-112906	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	SW-846 8081A	JAX47-SB104-05-112906	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	SW-846 8081A	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	SW-846 6010B or 6020	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	SW-846 6010B or 6020	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	SW-846 8081A	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	SW-846 8081A	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	SW-846 6010B or 6020	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	SW-846 8081A	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	SW-846 6010B or 6020	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	SW-846 8081A	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113-~~06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113-~~06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chad M	11-30-06	1130	[signature]	11/30/06	1135
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-007

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Water* ***Instrument:*** *JMICP1*

Analyte	MDL	MRL	Units
Arsenic	0.004	0.010	mg/L

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-007

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Soil* ***Instrument:*** *JMICP1*

Analyte	MDL	MRL	Units
Arsenic	0.2	0.5	mg/kg

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-007
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	6L15008-BLK1	File ID:	122106a-010
Prepared:	12/15/06 11:06	Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL
Analyzed:	12/21/06 17:02	Instrument:	JMICP1		
Batch:	6L15008	Sequence:	BA00116	Calibration:	0612017

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7440-38-2	Arsenic	0.5	U

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00117
Calibration: 0612018

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00117-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00117-CCB1	Arsenic	-9.07E-5	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-007
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00116
Calibration: 0612017

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00116-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
6L15008-BLK1	Arsenic	0.0707	0.5	mg/kg wet		EPA 6010B
BA00116-CCB1	Arsenic	4.49E-5	0.01	mg/L		EPA 6010B
BA00116-CCB2	Arsenic	0.000351	0.01	mg/L		EPA 6010B
BA00116-CCB3	Arsenic	0.00115	0.01	mg/L		EPA 6010B
BA00116-CCB4	Arsenic	0.000939	0.01	mg/L		EPA 6010B
BA00116-CCB5	Arsenic	0.00152	0.01	mg/L		EPA 6010B
BA00116-CCB6	Arsenic	-0.000318	0.01	mg/L		EPA 6010B
BA00116-CCB7	Arsenic	0.000808	0.01	mg/L		EPA 6010B
BA00116-CCB8	Arsenic	0.00224	0.01	mg/L		EPA 6010B
BA00116-CCB9	Arsenic	-7.05E-5	0.01	mg/L		EPA 6010B

Mean Data Sample JAX 47-SB103-01-112906

ID: b610308-09 Seq. No.: 25 A/S Pos: 36

Sample Qty: g Prep. Vol.: Dilution: : Date: 2006/12/21 18:40:19

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	217,356.3	95.7	0.72	%			%	0.75 %
Y361.105A	1,410,774.9	96.3	0.23	%			%	0.24 %
Ag 338.289	1,693.8	0.0087	0.00040	mg/L	0.0087	0.00040	mg/L	4.54 %
Ag 328.068	1,770.6	0.0055	0.00020	mg/L	0.0055	0.00020	mg/L	3.61 %
Al 308.215	81,920.7	32.1	0.33	mg/L	32.1	0.33	mg/L	1.02 %
As 188.979	2,087.7	0.8628	0.00186	mg/L	0.8628	0.00186	mg/L	0.22 %
Ba 233.527	28,712.9	0.1729	0.00040	mg/L	0.1729	0.00040	mg/L	0.23 %
Be 313.107	5,824.3	0.0009	0.00001	mg/L	0.0009	0.00001	mg/L	0.92 %
B 208.959	300.2	0.0171	0.00082	mg/L	0.0171	0.00082	mg/L	4.81 %
Ca 317.933				mg/L			mg/L	%
Ca Radial	33,121,192.4	1274	49.6	mg/L	1274	49.6	mg/L	3.89 %
Cd 226.502	387.9	0.0021	0.00010	mg/L	0.0021	0.00010	mg/L	4.72 %
Co 228.616	360.1	0.0059	0.00006	mg/L	0.0059	0.00006	mg/L	0.99 %
Cr 267.716	12,280.0	0.0789	0.00013	mg/L	0.0789	0.00013	mg/L	0.17 %
Cu 324.754	6,782.2	0.0160	0.00040	mg/L	0.0160	0.00040	mg/L	2.48 %
Fe 273.955	264,627.2	7.770	0.0309	mg/L	7.770	0.0309	mg/L	0.40 %
Fe Radial	18,983.5	8.17	0.076	mg/L	8.17	0.076	mg/L	0.93 %
K 766.491R	1,319.0	0.287	0.0224	mg/L	0.287	0.0224	mg/L	7.78 %
Li 670.781R	2,648.6	0.015	0.0005	mg/L	0.015	0.0005	mg/L	3.35 %
Mg 279.079R	14,894.0	7.55	0.071	mg/L	7.55	0.071	mg/L	0.94 %
Mn 257.610	234,568.9	0.2541	0.00116	mg/L	0.2541	0.00116	mg/L	0.46 %

Sample CALC

JAX 47-SB103-01-112906

AS rep. result 47.4 mg/kg

$$\left(0.8628\right)\left(\frac{50ml}{1g}\right)\left(\frac{1}{.910}\right) = 47.4 mg/kg$$

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MARK PETERSON** **DATE:** **MARCH 8, 2007**

FROM: **KELLY CARPER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- PEST/SPLP PEST**
NAS JACKSONVILLE
CTO 047 SDG BR006-008

SAMPLES: 10/solid/PEST

JAX47-SB089-02-113006	JAX47-SB089-05-113006	JAX47-SB096-01-113006
JAX47-SB096-05-113006	JAX47-SB098-01-113006	JAX47-SB098-05-113006
JAX47-SB099-01-113006	JAX47-SB099-05-113006	JAX47-SB113-01-112906
JAX47-SB113-06-112906		

4/Leachate/SPLP PEST

JAX47-SB089-02-113006	JAX47-SB089-05-113006	JAX47-SB096-01-113006
JAX47-SB099-01-113006		

OVERVIEW

The sample set for NAS Jacksonville CTO 047, SDG BR006-010 consists of ten (10) environmental soil samples and four (4) leachates. All soil and leachates samples were analyzed for pesticide compounds (PEST).

The samples were collected by Tetra Tech NUS, Inc. on November 29 and 30, 2006 and analyzed by Environmental Conservation Laboratory (ENCO). All analyses were conducted in accordance with SW-846 Methods 8081A analysis and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• GC/MS Tuning
	• Initial and continuing calibration
	• Blank results
	• Surrogate spike recoveries
*	• Blank Spike/Blank Spike Duplicate Results
	• Matrix Spike/Matrix Spike Duplicate Results
*	• Detection Limits
*	• Compound Quantitation
*	• Compound Identification

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

PEST

The following compounds were detected in the method blanks at the following maximum concentrations:

Compound	Maximum Concentration	Action Level
4,4'-DDT	0.000300 mg/kg	0.0015 mg/kg

Action levels of 5X the maximum contaminant concentration were established to evaluate blank contamination. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results for these compounds were qualified undetected (U).

The matrix spike/matrix spike duplicate (MS/MSD) performed on sample JAX47-SB089-02-113006 had percent recoveries (%Rs) less than the quality control limit for 4,4'-DDE, dieldrin, alpha and gamma-chlordane in the both MS and MSD. The %Rs were greater than the quality control limit for beta-BHC, 4,4'-DDT, and 4,4'-DDD in both the MS and MSD. The MS %Rs and RPD were greater than the quality control limits for heptachlor and endrin. The positive results for dieldrin, alpha and gamma- chlordane were qualified as estimated (J) in sample JAX47-SB089-02-113006. Positive results for beta-BHC, 4,4'-DDT, 4,4'-DDD, and heptachlor were qualified as estimated (J) in sample JAX47-SB089-02-113006. No action was taken for endrin because it was not detected. Nondetects are not impacted by high %Rs and RPDs.

The laboratory also provided MS/MSD results for samples JAX47-SB100-01-11306 JAX47-SB110-01-113006 however these samples were not included in this SDG. Therefore, the MS/MSD results were not evaluated.

The surrogate %Rs for decachlorobiphenyl on column 1 and 2 were 10% or lower in sample JAX47-SB089-02-113006. It is likely that the very low %Rs were due to interference. Positive and nondetected results in this sample were qualified as estimated (J) and (UJ), respectively.

The surrogate %Rs for tetrachloro-m-xylene on column 1 was low and decachlorobiphenyl on columns 1 and 2 were high in sample JAX47-SB096-01-113006. Positive and nondetected results in this sample were qualified as estimated (J) and (UJ), respectively.

The surrogate %Rs for decachlorobiphenyl on column 1 was high and tetrachloro-m-xylene on columns 1 and 2 were low in sample JAX47-SB099-01-113006. Positive and nondetected results in this sample were qualified as estimated (J) and (UJ), respectively.

The continuing calibrations performed on 12/14/06 at 3:47 and 8:33 on instrument JSVGCECD2 yielded a few %Ds that exceeded the 15%, however only quality control samples were impacted by these calibrations. Therefore,, no actions were warranted as no environmental samples were impacted by this noncompliance.

The continuing calibration performed on 12/23/06 at 7:11 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for beta-BHC and delta-BHC on both columns. The positive and nondetected results reported for these compounds were qualified as estimated (J) and (UJ) respectively, in samples JAX47-SB089-02-113006, JAX47-SB089-05-113006, JAX47-SB096-01-113006, JAX47-SB098-01-113006, and JAX47-SB098-05-113006.

The continuing calibration performed on 12/23/06 at 10:12 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for heptachlor, endrin, 4,4'-DDD, 4,4'-DDT, endrin aldehyde, and methoxychlor on both columns. The positive and nondetected results reported for these compounds in samples JAX47-SB089-02-113006, JAX47-SB089-05-113006, JAX47-SB096-01-113006, JAX47-SB098-01-113006, and JAX47-SB098-05-113006 were qualified as estimated (J) and (UJ), respectively.

The continuing calibration performed on 12/26/06 at 21:53 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for methoxychlor on both columns. No actions were warranted as methoxychlor results were not reported from the dilution analysis of JAX47-SB096-05-113006RE1

The continuing calibration performed on 12/27/06 at 10:46 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for 4,4'-DDT and methoxychlor on both columns. No actions were

warranted for methoxychlor because this compound was not reported from the dilution analysis of JAX47-SB096-01-113006RE3. The positive result for 4,4'-DDT was qualified as estimated (J) in the dilution analysis of JAX47-SB096-01-113006RE3.

The continuing calibration performed on 12/27/06 at 15:13 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDE, endosulfan I, dieldrin, endosulfan II, 4,4'-DDT, endrin aldehyde, and methoxychlor on both columns. No actions were warranted for any of these compounds except 4,4'-DDT because these compounds were not reported from the dilution analysis of JAX47-SB096-01-113006RE3. The positive result for 4,4'-DDT was qualified as estimated (J) in the dilution analysis of JAX47-SB096-01-113006RE3.

The continuing calibrations performed on 1/16/07 at 1:49 and 3:07 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for beta-bHC and delta-BHC on both columns. No actions were warranted as results for these compounds were not reported from the dilution analysis of JAX47-SB089-02-113006RE3.

The continuing calibration performed on 12/15/06 at 18:34 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for heptachlor, alpha-chlordane, 4,4'-DDT, and methoxychlor on both columns and heptachlor epoxide, gamma-chlordane, endosulfan I, endrin, 4,4'-DDD, endosulfan II, and endrin ketone on column 2. The positive and nondetected results reported for heptachlor, and alpha-chlordane in samples JAX47-SB113-01-112906 and JAX47-SB113-06-112906 were qualified as estimated (J) and (UJ), respectively.

The continuing calibration performed on 12/15/07 at 23:19 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for alpha-chlordane, 4,4'-DDT, endrin aldehyde, and methoxychlor on both columns and heptachlor, gamma-chlordane, endosulfan I, and dieldrin on column 1. The positive and nondetected results reported for alpha-chlordane, and endrin aldehyde in samples JAX47-SB113-01-112906 and JAX47-SB113-06-112906 were qualified as estimated (J) and (UJ), respectively.

The continuing calibrations performed on 1/18/07 at 11:45 and 13:54 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for a few compounds on column 1. No actions were warranted as no environmental samples were analyzed under these calibrations.

The continuing calibration performed on 12/20/06 at 11:59 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for endrin ketone on both columns and alpha-BHC, gamma-BHC, beta-BHC, delta-BHC, heptachlor, aldrin, heptachlor epoxide, gamma-chlordane, alpha-chlordane, and 4,4'-DDT on column 2. The positive results reported for 4,4'-DDT in samples JAX47-SB099-05-113006RE1 and JAX47-SB099-01-113006RE1 were qualified as estimated (J). No actions were warranted for the remaining parameters because %Ds were noncompliant on only one column.

The continuing calibration performed on 12/20/06 at 16:23 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for 4,4'-DDT on both columns and heptachlor, heptachlor epoxide, gamma-chlordane, alpha-chlordane, endosulfasn II, 4,4'-DDT, and endrin ketone on column 2. The positive results reported for 4,4'-DDT in samples JAX47-SB099-05-113006RE1 and JAX47-SB099-01-113006RE1 were qualified as estimated (J). No actions were warranted for the remaining compounds as they were not detected and were noncompliant on only one column.

The continuing calibration performed on 12/20/06 at 18:06 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for methoxychlor and 4,4'-DDT on both columns. No actions were warranted as no environmental samples were run under this calibration.

Sample JAX47-SB089-02-113006 was reanalyzed at a 20-fold dilution because the concentrations of beta-BHC, gamma-chlordane, alpha-chlordane, 4,4'-DDE, dieldrin, 4,4'-DDD, and 4,4'-DDT were in excess of the linear calibration range of the instrument in the original sample analysis. Results for the aforementioned compounds (except 4,4'-DDT) were reported from the 20-fold dilution analysis. The sample required a further 200-fold dilution as 4,4'-DDT concentrations were still in excess of the calibration range in the 20-fold dilution. 4,4'-DDT was reported from the 200-fold dilution.

Sample JAX47-SB089-05-113006 was reanalyzed at a 10-fold dilution because the concentrations of beta-BHC and delta-BHC were in excess of the linear calibration range of the instrument in the original sample analysis.

Results for the aforementioned compounds were reported from the 10-fold dilution analysis.

Sample JAX47-SB096-01-113006 was reanalyzed at a 50-fold dilution because the concentrations of heptachlor, heptachlor epoxide, endosulfan I, dieldrin, endrin, endosulfan II, endrin aldehyde, methoxychlor, endosulfan sulfate, gamma-chlordane, alpha-chlordane, 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT were in excess of the linear calibration range of the instrument in the original sample analysis. Results for the aforementioned compounds (except gamma-chlordane, alpha-chlordane, 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT) were reported from the 50-fold dilution analysis. The sample required a further 500-fold dilution as gamma-chlordane, alpha-chlordane, 4,4'-DDE, and 4,4'-DDD concentrations were still in excess of the calibration range in the 50-fold dilution. Gamma-Chlordane, alpha-chlordane, 4,4'-DDE, and 4,4'-DDD were reported from the 200-fold dilution. 4,4'-DDT was still in excess of the calibration range in the 500-fold dilution, hence the sample was analyzed one final time at a 200000-fold dilution in order to bring 4,4'-DDT into the calibration range, only 4,4'-DDT was reported from the 200000-fold analysis.

Sample JAX47-SB096-05-113006 was reanalyzed at a 20-fold dilution because the concentrations of 4,4'-DDT was in excess of the linear calibration range of the instrument in the original sample analysis. The result for 4,4'-DDT was reported from the 20-fold dilution analysis.

Sample JAX47-SB099-01-113006 was reanalyzed at a 20-fold dilution because the concentrations of heptachlor epoxide, gamma-chlordane, alpha-chlordane, dieldrin, 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT were in excess of the linear calibration range of the instrument in the original sample analysis. Results for the aforementioned compounds (except 4,4'-DDE and 4,4'-DDT) were reported from the 20-fold dilution analysis. The sample required a further 200-fold dilution as 4,4'-DDT and 4,4'-DDE concentrations were still in excess of the calibration range in the 20-fold dilution. 4,4'-DDT and 4,4'-DDE were reported from the 200-fold dilution.

Positive pesticide results were qualified as estimated (J) as a result of high percent differences (>100%) between analytical columns in the following:

Analyte	%D
JAX47-SB113-06-113006	
gamma-Chlordane	221.3
alpha-Chlordane	1276.9
JAX47-SB089-02-113006	
alpha-BHC	130.8
delta-BHC	1188.6
Heptachlor epoxide	318.3
Endrin ketone	118.8
JAX47-SB089-05-113006	
gamma-BHC	840.9
alpha-Chlordane	2440
JAX47-SB096-01-113006	
alpha-BHC	210.1
beta-BHC	2223.3
delta-BHC	1608.3
Endrin ketone	232.8
Heptachlor	870.9
Heptachlor Epoxide	108.7

Endosulfan I	1751.8
Endrin	346.5
Endrin aldehyde	259.5
Methoxychlor	925
JAX47-SB098-01-113006	
gamma-Chlordane	132.4
Dieldrin	250
JAX47-SB099-01-113006	
alpha-BHC	210
Methoxychlor	861.8
Endosulfan sulfate	386.5
Heptachlor epoxide	123.8
4,4'-DDD	111.8

Positive pesticide results were qualified as estimated (J) as a result of percent differences (>25% but less than 100%) between analytical columns in the following:

Analyte	%D
JAX47-SB113-06-113006	
delta-BHC	60
JAX47-SB089-02-113006	
Endosulfan II	85.1
Endosulfan sulfate	55.6
4,4'-DDD	82.6
JAX47-SB096-01-113006	
gamma-BHC	73.7
Endosulfan II	56.2
Endosulfan sulfate	73.7
4,4'-DDD	25.6
JAX47-SB096-05-113006	
4,4'-DDD	80.8
JAX47-SB098-05-113006	
4,4'-DDD	37.3
JAX47-SB099-01-113006	
beta-BHC	76.6
JAX47-SB099-05-113006	
Dieldrin	44.4
4,4'-DDD	40.5

SPLP PEST

The MS/MSD performed on sample JAX47-SB089-02-113006 had percent recoveries (%Rs) greater than the quality control limit for alpha and gamma- chlordane in the both MS and MSD. The positive results for alpha and gamma- chlordane were qualified as estimated (J) in sample JAX47-SB089-02-113006.

Sample JAX47-SB089-05-113006 was reanalyzed at a 20-fold dilution because the concentration of 4,4'-DDD was in excess of the linear calibration range of the instrument in the original sample analysis. The result for 4,4'-DDD was reported from the 20-fold dilution analysis.

Sample JAX47-SB096-01-113006 was reanalyzed at a 200-fold dilution because the concentration of 4,4'-DDT was in excess of the linear calibration range of the instrument in the original sample analysis. The result for 4,4'-DDT was reported from the 200-fold dilution analysis.

Positive pesticide results were qualified as estimated (J) as a result of high percent differences (>100%) between analytical columns in the following:

Analyte	%D
JAX47-SB089-02-113006	
Heptachlor Epoxide	246.2
gamma-Chlordane	340.9
alpha-Chordane	1705.3
4,4'-DDD	200
JAX47-SB089-05-113006	
gamma-Chlordane	200
alpha-Chordane	166.7
4,4'-DDE	475
JAX47-SB096-01-113006	
Heptachlor Epoxide	1030
alpha-Chordane	123.5
Endrin ketone	154.5
4,4'-DDD	319.7
JAX47-SB099-01-113006	
4,4'-DDD	125
alpha-Chordane	201.4

Positive pesticide results were qualified as estimated (J) as a result of percent differences (>25% but less than 100%) between analytical columns in the following:

Analyte	%D
JAX47-SB089-02-113006	
alpha-BHC	33.3
delta-BHC	33.3
JAX47-SB089-05-113006	
Heptachlor Epoxide	50
JAX47-SB096-01-113006	
Endosulfan sulfate	40
JAX47-SB099-01-113006	
Heptachlor Epoxide	39.4

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several pesticide compounds had noncompliant calibration %Ds. Several surrogate noncompliances were noted. Positive pesticide results were qualified as estimated due to high %Ds between analytical columns.

Other Factors Affecting Data Quality: Many samples required dilution. Several MS/MSD noncompliances were noted.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99). The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech NUS

Kelly A. Carper
Environmental Scientist

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB089-02-113006	nsample	JAX47-SB089-05-113006	nsample	JAX47-SB096-01-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610372-01	lab_id	B610372-02RE1	lab_id	B610372-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	95.2	Pct_Solids	95.3	Pct_Solids	97.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.066	J	U
4,4'-DDE	0.072		
4,4'-DDT	0.701		
ALDRIN	0.002	U	
ALPHA-BHC	0.003	J	PU
ALPHA-CHLORDANE	0.038	J	DPU
BETA-BHC	1.31	J	U
DELTA-BHC	0.009	J	PU
DIELDRIN	0.489		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.02	J	P
GAMMA-BHC (LINDANE)	0.009	J	P
GAMMA-CHLORDANE	0.186	J	DU
HEPTACHLOR	0.021	J	P
HEPTACHLOR EPOXIDE	0.026	J	PU
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2.88		
4,4'-DDE	0.012	J	PU
4,4'-DDT	0.009	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.436		
ALPHA-CHLORDANE	0.008	J	PU
BETA-BHC	0.054		
DELTA-BHC	0.121		
DIELDRIN	0.013	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.005	J	P
GAMMA-CHLORDANE	0.003	J	PU
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.006	J	PU
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.183	J	U
4,4'-DDE	0.435		
4,4'-DDT	32.6		
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	1.61	J	U
BETA-BHC	0.029	J	P
DELTA-BHC	0.001	U	
DIELDRIN	0.211		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.007	J	PU
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.011	J	PU
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.779		
HEPTACHLOR	0.036	J	P
HEPTACHLOR EPOXIDE	0.02	J	PU
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB099-01-113006
samp_date	11/30/2006
lab_id	B610372-07
qc_type	NM
units	UG/L
Pct_Solids	93.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.008	J	PU
4,4'-DDE	0.114		
4,4'-DDT	0.179		
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.214	J	U
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.1		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.037	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.033	J	PU
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB089-02-113006	nsample	JAX47-SB089-05-113006	nsample	JAX47-SB096-01-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610372-01RE1	lab_id	B610372-02	lab_id	B610372-03RE2
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	95.2	Pct_Solids	95.3	Pct_Solids	97.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.26	J	CDRU
4,4'-DDE	0.097	J	DR
4,4'-DDT	5.5	J	CDR
ALDRIN	0.00021	UJ	R
ALPHA-BHC	0.00091	J	PRU
ALPHA-CHLORDANE	0.54	J	DR
BETA-BHC	0.11	J	CDR
DELTA-BHC	0.0015	J	CPRU
DIELDRIN	0.16	J	DR
ENDOSULFAN I	0.00028	UJ	R
ENDOSULFAN II	0.014	J	RU
ENDOSULFAN SULFATE	0.00095	J	PRU
ENDRIN	0.00038	UJ	R
ENDRIN ALDEHYDE	0.00017	UJ	R
ENDRIN KETONE	0.003	J	RU
GAMMA-BHC (LINDANE)	0.003	J	R
GAMMA-CHLORDANE	0.71	J	DR
HEPTACHLOR	0.015	J	DR
HEPTACHLOR EPOXIDE	0.042	J	RU
METHOXYCHLOR	0.00035	UJ	R
TOXAPHENE	0.0017	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00031	UJ	C
4,4'-DDE	0.001	J	P
4,4'-DDT	0.00084	U	A
ALDRIN	0.00021	U	
ALPHA-BHC	0.0028		
ALPHA-CHLORDANE	0.018	J	U
BETA-BHC	0.16	J	C
DELTA-BHC	0.23	J	C
DIELDRIN	0.00042	J	P
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00031	J	P
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.00091	J	P
GAMMA-BHC (LINDANE)	0.0072	J	U
GAMMA-CHLORDANE	0.0064		
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.0011	J	P
METHOXYCHLOR	0.00035	U	
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	17	J	CRU
4,4'-DDE	6.1	J	R
4,4'-DDT	2700	J	CR
ALDRIN	0.0002	UJ	R
ALPHA-BHC	0.0037	J	RU
ALPHA-CHLORDANE	4.2	J	R
BETA-BHC	0.024	J	CRU
DELTA-BHC	0.0087	J	CRU
DIELDRIN	0.59	J	R
ENDOSULFAN I	0.15	J	RU
ENDOSULFAN II	0.13	J	RU
ENDOSULFAN SULFATE	0.057	J	PU
ENDRIN	0.15	J	CRU
ENDRIN ALDEHYDE	0.13	J	CRU
ENDRIN KETONE	0.039	J	RU
GAMMA-BHC (LINDANE)	0.0045	J	RU
GAMMA-CHLORDANE	5.9	J	R
HEPTACHLOR	3.4	J	CRU
HEPTACHLOR EPOXIDE	0.74	J	RU
METHOXYCHLOR	0.21	J	CRU
TOXAPHENE	0.0017	UJ	R

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB096-05-113006	nsample	JAX47-SB098-01-113006	nsample	JAX47-SB098-05-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610372-04	lab_id	B610372-05RE1	lab_id	B610372-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.8	Pct_Solids	91.9	Pct_Solids	94.9
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0009	J	PU
4,4'-DDE	0.0019		
4,4'-DDT	0.18		
ALDRIN	0.0002	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.0011	J	P
BETA-BHC	0.00034	U	
DELTA-BHC	0.00017	U	
DIELDRIN	0.00024	U	
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00027	U	
ENDRIN	0.00037	U	
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.0018		
HEPTACHLOR	0.00045	J	P
HEPTACHLOR EPOXIDE	0.00058	U	
METHOXYCHLOR	0.00034	U	
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0024		
4,4'-DDE	0.028		
4,4'-DDT	0.064		
ALDRIN	0.00022	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.0027		
BETA-BHC	0.00036	UJ	C
DELTA-BHC	0.00018	UJ	C
DIELDRIN	0.001	J	PU
ENDOSULFAN I	0.00029	U	
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00029	U	
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00018	U	
ENDRIN KETONE	0.00032	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.0029	J	U
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.0017	J	P
METHOXYCHLOR	0.00036	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00077	J	CPU
4,4'-DDE	0.00035	U	
4,4'-DDT	0.002		
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.00028	U	
BETA-BHC	0.00035	UJ	C
DELTA-BHC	0.00017	UJ	C
DIELDRIN	0.00024	U	
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.00024	U	
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.00059	U	
METHOXYCHLOR	0.00035	U	
TOXAPHENE	0.0017	U	

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB099-01-113006	nsample	JAX47-SB099-05-113006	nsample	JAX47-SB113-01-112906
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/29/2006
lab_id	B610372-07RE2	lab_id	B610372-08RE1	lab_id	B610309-01
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	93.8	Pct_Solids	85.5	Pct_Solids	70.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.28	J	RU
4,4'-DDE	2.2	J	R
4,4'-DDT	5.1	J	R
ALDRIN	0.00021	UJ	R
ALPHA-BHC	0.00018	J	PU
ALPHA-CHLORDANE	0.61	J	RU
BETA-BHC	0.0029	J	RU
DELTA-BHC	0.00085	J	RP
DIELDRIN	0.32	J	R
ENDOSULFAN I	0.00028	UJ	R
ENDOSULFAN II	0.00025	UJ	R
ENDOSULFAN SULFATE	0.028	J	U
ENDRIN	0.00039	UJ	R
ENDRIN ALDEHYDE	0.00018	UJ	R
ENDRIN KETONE	0.00032	UJ	CR
GAMMA-BHC (LINDANE)	0.00053	J	RP
GAMMA-CHLORDANE	0.54	J	R
HEPTACHLOR	0.00085	J	RP
HEPTACHLOR EPOXIDE	0.13	J	RU
METHOXYCHLOR	0.03	J	U
TOXAPHENE	0.0018	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0014	J	PU
4,4'-DDE	0.0036		
4,4'-DDT	0.0085	J	C
ALDRIN	0.00023	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.00086	J	P
BETA-BHC	0.00039	U	
DELTA-BHC	0.00019	U	
DIELDRIN	0.00035	J	PU
ENDOSULFAN I	0.00031	U	
ENDOSULFAN II	0.00027	U	
ENDOSULFAN SULFATE	0.00031	U	
ENDRIN	0.00042	U	
ENDRIN ALDEHYDE	0.00019	U	
ENDRIN KETONE	0.00035	UJ	C
GAMMA-BHC (LINDANE)	0.00019	U	
GAMMA-CHLORDANE	0.00082	J	P
HEPTACHLOR	0.00027	U	
HEPTACHLOR EPOXIDE	0.00066	U	
METHOXYCHLOR	0.00039	U	
TOXAPHENE	0.0019	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00042	U	
4,4'-DDE	0.065		
4,4'-DDT	0.099		
ALDRIN	0.00028	U	
ALPHA-BHC	0.00019	U	
ALPHA-CHLORDANE	0.00038	UJ	C
BETA-BHC	0.00047	U	
DELTA-BHC	0.00023	U	
DIELDRIN	0.0013	J	P
ENDOSULFAN I	0.00038	U	
ENDOSULFAN II	0.00033	U	
ENDOSULFAN SULFATE	0.0009	J	P
ENDRIN	0.00095	J	P
ENDRIN ALDEHYDE	0.00023	UJ	C
ENDRIN KETONE	0.00042	U	
GAMMA-BHC (LINDANE)	0.00023	U	
GAMMA-CHLORDANE	0.00052	J	P
HEPTACHLOR	0.00033	UJ	C
HEPTACHLOR EPOXIDE	0.0008	U	
METHOXYCHLOR	0.00047	U	
TOXAPHENE	0.0023	U	

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB113-06-112906
samp_date	11/29/2006
lab_id	B610309-02
qc_type	NM
units	MG/KG
Pct_Solids	75.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0061		
4,4'-DDE	0.0036		
4,4'-DDT	0.0034		
ALDRIN	0.00026	U	
ALPHA-BHC	0.00017	U	
ALPHA-CHLORDANE	0.0079	J	CU
BETA-BHC	0.00044	J	P
DELTA-BHC	0.00022	J	PU
DIELDRIN	0.0025		
ENDOSULFAN I	0.00035	U	
ENDOSULFAN II	0.00031	U	
ENDOSULFAN SULFATE	0.00035	U	
ENDRIN	0.00048	U	
ENDRIN ALDEHYDE	0.00022	UJ	C
ENDRIN KETONE	0.00039	U	
GAMMA-BHC (LINDANE)	0.00022	U	
GAMMA-CHLORDANE	0.0021	J	PU
HEPTACHLOR	0.00031	UJ	C
HEPTACHLOR EPOXIDE	0.00074	U	
METHOXYCHLOR	0.00044	U	
TOXAPHENE	0.0022	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-01	File ID:	9LQA045-0
Sampled:	11/30/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 07:37
Solids:	95.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00091	JP
58-89-9	gamma-BHC	1	0.0030	
319-86-8	delta-BHC	1	0.0015	JP
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.042	P
959-98-8	Endosulfan I	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.00095	JP
53494-70-5	Endrin ketone	1	0.0030	P
8001-35-2	Toxaphene	1	0.035	U
33213-65-9	Endosulfan II	1	0.0078	P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0350	0.0289	83	70 - 125	
DBC	0.0350	0.00357	10	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-01RE1	File ID:	9LRA023-0
Sampled:	11/30/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 21:53
Solids:	95.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-85-7	beta-BHC	20	0.11	D
NA	Chlordane-gamma	20	0.71	D
NA	Chlordane-alpha	20	0.54	D
72-55-9	4,4'-DDE	20	0.097	D
60-57-1	Dieldrin	20	0.16	D
72-54-8	4,4'-DDD	20	0.26	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-01RE2	File ID:	9LRA020-0
Sampled:	11/30/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 20:36
Solids:	95.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4′-DDT	200	5.5	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-01RE3	File ID:	9AJA025-0
Sampled:	11/30/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	01/16/07 02:41
Solids:	95.22	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
76-44-8	Heptachlor	1	0.015	
72-20-8	Endrin	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.0017	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02	File ID:	9LQA046-0
Sampled:	11/30/06 14:10	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 08:02
Solids:	95.29	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0028	
58-89-9	gamma-BHC	1	0.0072	P
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0011	J
NA	Chlordane-gamma	1	0.0064	
NA	Chlordane-alpha	1	0.018	P
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.00042	J
72-54-8	4,4'-DDD	1	0.0017	U
33213-65-9	Endosulfan II	1	0.00031	J
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.00091	J
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0350	0.0307	88	70 - 125	
DBC	0.0350	0.0303	87	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02RE1	File ID:	9LRA024-0
Sampled:	11/30/06 14:10	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 22:19
Solids:	95.29	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-85-7	beta-BHC	10	0.16	D
319-86-8	delta-BHC	10	0.23	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02RE2	File ID:	9AJA008-0
Sampled:	11/30/06 14:10	Prepared:	12/07/06 16:27	Analyzed:	01/15/07 19:21
Solids:	95.29	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
76-44-8	Heptachlor	1	0.0017	U
72-55-9	4,4'-DDE	1	0.0010	J
72-20-8	Endrin	1	0.0017	U
50-29-3	4,4'-DDT	1	0.00084	J
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.0017	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03	File ID:	9LQA047-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 08:28
Solids:	97.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0037	P
58-89-9	gamma-BHC	1	0.0045	P
319-85-7	beta-BHC	1	0.024	P
319-86-8	delta-BHC	1	0.0087	P
309-00-2	Aldrin	1	0.0017	U
53494-70-5	Endrin ketone	1	0.039	P
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0343	0.00356	10	70 - 125	*
DBC	0.0343	0.0801	234	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03RE1	File ID:	9LRA022-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 21:27
Solids:	97.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
76-44-8	Heptachlor	50	3.4	DP
1024-57-3	Heptachlor epoxide	50	0.74	DP
959-98-8	Endosulfan I	50	0.15	DP
60-57-1	Dieldrin	50	0.59	D
72-20-8	Endrin	50	0.15	DP
33213-65-9	Endosulfan II	50	0.13	DP
7421-93-4	Endrin aldehyde	50	0.13	DP
72-43-5	Methoxychlor	50	0.21	DP
1031-07-8	Endosulfan sulfate	50	0.057	JDP

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-03RE2	File ID:	9LRA019-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 20:10
Solids:	97.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	500	5.9	D
NA	Chlordane-alpha	500	4.2	D
72-55-9	4,4′-DDE	500	6.1	D
72-54-8	4,4′-DDD	500	17	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-03RE3	File ID:	9LVA007-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/27/06 13:04
Solids:	97.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	200000	2700	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-04	File ID:	9LRA006-0
Sampled:	11/30/06 14:30	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 14:34
Solids:	96.82	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.00045	J
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.0018	
NA	Chlordane-alpha	1	0.0011	J
72-55-9	4,4'-DDE	1	0.0019	
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	U
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.00090	J
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0344	0.0285	83	70 - 125	
DBC	0.0344	0.0289	84	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-05-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-04RE1	File ID:	9LUA025-0
Sampled:	11/30/06 14:30	Prepared:	12/07/06 16:27	Analyzed:	12/26/06 22:18
Solids:	96.82	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	20	0.18	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB098-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-05	File ID:	9LQA049-0
Sampled:	11/30/06 15:11	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 09:20
Solids:	91.89	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L07024 Sequence: BA00091 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0017	J
NA	Chlordane-gamma	1	0.0029	P
NA	Chlordane-alpha	1	0.0027	
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0010	JP
33213-65-9	Endosulfan II	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.036	U
309-00-2	Aldrin	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0363	0.0271	75	70 - 125	
DBC	0.0363	0.0285	79	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB098-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-05RE1	File ID:	9AJA009-0
Sampled:	11/30/06 15:11	Prepared:	12/07/06 16:27	Analyzed:	01/15/07 19:47
Solids:	91.89	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
76-44-8	Heptachlor	1	0.0018	U
72-55-9	4,4′-DDE	1	0.028	
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4′-DDD	1	0.0024	
50-29-3	4,4′-DDT	1	0.064	
7421-93-4	Endrin aldehyde	1	0.0018	U
72-43-5	Methoxychlor	1	0.0018	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB098-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-06	File ID:	9LQA050-0
Sampled:	11/30/06 15:13	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 09:46
Solids:	94.88	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.0017	U
NA	Chlordane-alpha	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	U
72-54-8	4,4´-DDD	1	0.00077	J
33213-65-9	Endosulfan II	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0351	0.0294	84	70 - 125	
DBC	0.0351	0.0290	83	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB098-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-06RE1	File ID:	9AJA010-0
Sampled:	11/30/06 15:13	Prepared:	12/07/06 16:27	Analyzed:	01/15/07 20:13
Solids:	94.88	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
76-44-8	Heptachlor	1	0.0017	U
72-55-9	4,4′-DDE	1	0.0017	U
72-20-8	Endrin	1	0.0017	U
50-29-3	4,4′-DDT	1	0.0020	
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.0017	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB099-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-07RE1	File ID:	9LOA012-0
Sampled:	11/30/06 15:25	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 15:57
Solids:	93.79	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00018	JP
58-89-9	gamma-BHC	1	0.00053	J
319-86-8	delta-BHC	1	0.00085	J
76-44-8	Heptachlor	1	0.00085	J
309-00-2	Aldrin	1	0.0018	U
959-98-8	Endosulfan I	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U
319-85-7	beta-BHC	1	0.0017	JP
72-43-5	Methoxychlor	1	0.0032	P
1031-07-8	Endosulfan sulfate	1	0.0058	P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0355	0.0240	68	70 - 125	*
DBC	0.0355	0.0590	166	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB099-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-07RE2	File ID:	9LQA016-0
Sampled:	11/30/06 15:25	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 18:33
Solids:	93.79	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
1024-57-3	Heptachlor epoxide	20	0.13	DP
NA	Chlordane-gamma	20	0.54	D
NA	Chlordane-alpha	20	0.61	D
60-57-1	Dieldrin	20	0.32	D
72-54-8	4,4´-DDD	20	0.28	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB099-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-07RE3	File ID:	9LQA018-0
Sampled:	11/30/06 15:25	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 19:51
Solids:	93.79	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4′-DDE	200	2.2	D
50-29-3	4,4′-DDT	200	5.1	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB099-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-08RE1	File ID:	9LOA007-0
Sampled:	11/30/06 15:30	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 13:48
Solids:	85.54	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L14027 Sequence: BA00107 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0019	U
58-89-9	gamma-BHC	1	0.0019	U
319-85-7	beta-BHC	1	0.0019	U
319-86-8	delta-BHC	1	0.0019	U
76-44-8	Heptachlor	1	0.0019	U
309-00-2	Aldrin	1	0.0019	U
1024-57-3	Heptachlor epoxide	1	0.0019	U
NA	Chlordane-gamma	1	0.00082	J
NA	Chlordane-alpha	1	0.00086	J
72-55-9	4,4'-DDE	1	0.0036	
959-98-8	Endosulfan I	1	0.0019	U
60-57-1	Dieldrin	1	0.00035	JP
72-20-8	Endrin	1	0.0019	U
72-54-8	4,4'-DDD	1	0.0014	J
33213-65-9	Endosulfan II	1	0.0019	U
50-29-3	4,4'-DDT	1	0.0085	
7421-93-4	Endrin aldehyde	1	0.0019	U
72-43-5	Methoxychlor	1	0.0019	U
1031-07-8	Endosulfan sulfate	1	0.0019	U
53494-70-5	Endrin ketone	1	0.0019	U
8001-35-2	Toxaphene	1	0.039	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0390	0.0311	80	70 - 125	
DBC	0.0390	0.0322	83	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB113-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610309-01	File ID:	9LJA008-0
Sampled:	11/29/06 09:02	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 20:43
Solids:	70.37	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0024	U
58-89-9	gamma-BHC	1	0.0024	U
319-85-7	beta-BHC	1	0.0024	U
319-86-8	delta-BHC	1	0.0024	U
76-44-8	Heptachlor	1	0.0024	U
309-00-2	Aldrin	1	0.0024	U
1024-57-3	Heptachlor epoxide	1	0.0024	U
NA	Chlordane-gamma	1	0.00052	J
NA	Chlordane-alpha	1	0.0024	U
72-55-9	4,4′-DDE	1	0.065	
959-98-8	Endosulfan I	1	0.0024	U
60-57-1	Dieldrin	1	0.0013	J
72-20-8	Endrin	1	0.00095	J
72-54-8	4,4′-DDD	1	0.0024	U
33213-65-9	Endosulfan II	1	0.0024	U
7421-93-4	Endrin aldehyde	1	0.0024	U
1031-07-8	Endosulfan sulfate	1	0.00090	J
53494-70-5	Endrin ketone	1	0.0024	U
8001-35-2	Toxaphene	1	0.047	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0474	0.0429	91	70 - 125	
DBC	0.0474	0.0456	96	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB113-01-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610309-01RE1	File ID:	9AJA004B-0
Sampled:	11/29/06 09:02	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 17:38
Solids:	70.37	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00193	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-43-5	Methoxychlor	1	0.0024	U
50-29-3	4,4'-DDT	1	0.094	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB113-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610309-02	File ID:	9LJA009-0
Sampled:	11/29/06 09:15	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 21:09
Solids:	75.61	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0022	U
58-89-9	gamma-BHC	1	0.0022	U
319-85-7	beta-BHC	1	0.00044	J
319-86-8	delta-BHC	1	0.00022	JP
76-44-8	Heptachlor	1	0.0022	U
309-00-2	Aldrin	1	0.0022	U
1024-57-3	Heptachlor epoxide	1	0.0022	U
NA	Chlordane-gamma	1	0.0021	JP
72-55-9	4,4′-DDE	1	0.0036	
959-98-8	Endosulfan I	1	0.0022	U
60-57-1	Dieldrin	1	0.0025	
72-20-8	Endrin	1	0.0022	U
72-54-8	4,4′-DDD	1	0.0061	
33213-65-9	Endosulfan II	1	0.0022	U
7421-93-4	Endrin aldehyde	1	0.0022	U
1031-07-8	Endosulfan sulfate	1	0.0022	U
53494-70-5	Endrin ketone	1	0.0022	U
8001-35-2	Toxaphene	1	0.044	U
NA	Chlordane-alpha	1	0.00057	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0441	0.0381	87	70 - 125	
DBC	0.0441	0.0393	89	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB113-06-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610309-02RE1	File ID:	9AJA005A-0
Sampled:	11/29/06 09:15	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 18:04
Solids:	75.61	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00193	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4′-DDT	1	0.0034	
72-43-5	Methoxychlor	1	0.0022	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-01	File ID:	9AKA010-0
Sampled:	11/30/06 14:00	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 14:20
Solids:	95.22	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.003	JP
58-89-9	gamma-BHC	1	0.009	J
319-85-7	beta-BHC	1	1.31	
319-86-8	delta-BHC	1	0.009	JP
76-44-8	Heptachlor	1	0.021	J
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.026	JP
NA	Chlordane-gamma	1	0.186	P
NA	Chlordane-alpha	1	0.038	JP
72-55-9	4,4′-DDE	1	0.072	
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.489	
72-20-8	Endrin	1	0.050	U
72-54-8	4,4′-DDD	1	0.066	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4′-DDT	1	0.701	
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.020	J
8001-35-2	Toxaphene	1	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.785	78	25 - 140	
DBC	1.00	0.946	95	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02	File ID:	9AKA011-0
Sampled:	11/30/06 14:10	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 14:46
Solids:	95.29	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.436	
58-89-9	gamma-BHC	1	0.005	J
319-85-7	beta-BHC	1	0.054	
319-86-8	delta-BHC	1	0.121	
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.006	JP
NA	Chlordane-gamma	1	0.003	JP
NA	Chlordane-alpha	1	0.008	JP
72-55-9	4,4'-DDE	1	0.012	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.013	J
72-20-8	Endrin	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.009	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.855	86	25 - 140	
DBC	1.00	0.890	89	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008		
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047		
Matrix:	soil	Laboratory ID:	B610372-02RE1	File ID:	9AKA015-0		
Sampled:	11/30/06 14:10	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 16:37		
Solids:	95.29	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL		
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020	Instrument:	JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
72-54-8	4,4'-DDD	20	2.88	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03	File ID:	9AKA012-0
Sampled:	11/30/06 14:23	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 15:11
Solids:	97.30	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L21004 Sequence: BA00170 Calibration: 0701020 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.029	J
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.036	J
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.020	JP
NA	Chlordane-gamma	1	0.779	
72-55-9	4,4'-DDE	1	0.435	
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.211	
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.183	
33213-65-9	Endosulfan II	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.007	JP
53494-70-5	Endrin ketone	1	0.011	JP
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.722	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.911	91	25 - 140	
DBC	1.00	0.949	95	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-03RE1	File ID:	9AKA016-0
Sampled:	11/30/06 14:23	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 17:08
Solids:	97.30	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
50-29-3	4,4'-DDT	200	32.6	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB099-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-07	File ID:	9AKA013-0
Sampled:	11/30/06 15:25	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 15:37
Solids:	93.79	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.033	JP
NA	Chlordane-gamma	1	0.037	J
72-55-9	4,4′-DDE	1	0.114	
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.100	
72-20-8	Endrin	1	0.050	U
72-54-8	4,4′-DDD	1	0.008	J
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4′-DDT	1	0.179	
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.071	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.925	92	25 - 140	
DBC	1.00	0.913	91	30 - 135	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-008

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPM	MG/L	JAX47-SB099-01-113006	B610372-07	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPP	%	JAX47-SB099-01-113006	B610372-07	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	%	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	%	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	%	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB099-01-113006	B610372-07	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB096-01-113006	B610372-03RE1	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB089-05-113006	B610372-02RE1	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47

HOLDTIME

SDG BR006-008

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	JAX47-SB099-05-113006	B610372-08RE1	NM	11/30/2006	12/14/2006	12/20/2006	14	6	20
OS	%	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	%	JAX47-SB113-01-112906	B610309-01	NM	11/29/2006	12/13/2006	12/15/2006	14	2	16
OS	%	JAX47-SB099-01-113006	B610372-07RE1	NM	11/30/2006	12/14/2006	12/20/2006	14	6	20
OS	%	JAX47-SB098-05-113006	B610372-06	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	%	JAX47-SB098-01-113006	B610372-05	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	%	JAX47-SB096-05-113006	B610372-04	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	%	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	%	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	%	JAX47-SB113-06-112906	B610309-02	NM	11/29/2006	12/13/2006	12/15/2006	14	2	16
OS	MG/KG	JAX47-SB096-01-113006	B610372-03RE1	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB089-02-113006	B610372-01RE1	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB089-02-113006	B610372-01RE2	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB089-02-113006	B610372-01RE3	NM	11/30/2006	12/7/2006	1/16/2007	7	40	47

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB089-05-113006	B610372-02RE1	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB098-05-113006	B610372-06	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB113-06-112906	B610309-02	NM	11/29/2006	12/13/2006	12/15/2006	14	2	16
OS	MG/KG	JAX47-SB113-01-112906	B610309-01RE1	NM	11/29/2006	12/13/2006	1/15/2007	14	33	47
OS	MG/KG	JAX47-SB113-01-112906	B610309-01	NM	11/29/2006	12/13/2006	12/15/2006	14	2	16
OS	MG/KG	JAX47-SB099-05-113006	B610372-08RE1	NM	11/30/2006	12/14/2006	12/20/2006	14	6	20
OS	MG/KG	JAX47-SB099-01-113006	B610372-07RE3	NM	11/30/2006	12/14/2006	12/22/2006	14	8	22
OS	MG/KG	JAX47-SB099-01-113006	B610372-07RE2	NM	11/30/2006	12/14/2006	12/22/2006	14	8	22
OS	MG/KG	JAX47-SB089-05-113006	B610372-02RE2	NM	11/30/2006	12/7/2006	1/15/2007	7	39	46
OS	MG/KG	JAX47-SB098-05-113006	B610372-06RE1	NM	11/30/2006	12/7/2006	1/15/2007	7	39	46
OS	MG/KG	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB098-01-113006	B610372-05RE1	NM	11/30/2006	12/7/2006	1/15/2007	7	39	46
OS	MG/KG	JAX47-SB098-01-113006	B610372-05	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB096-05-113006	B610372-04RE1	NM	11/30/2006	12/7/2006	12/26/2006	7	19	26
OS	MG/KG	JAX47-SB096-05-113006	B610372-04	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23
OS	MG/KG	JAX47-SB096-01-113006	B610372-03RE3	NM	11/30/2006	12/7/2006	12/27/2006	7	20	27
OS	MG/KG	JAX47-SB096-01-113006	B610372-03RE2	NM	11/30/2006	12/7/2006	12/23/2006	7	16	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB113-06-112906	B610309-02RE1	NM	11/29/2006	12/13/2006	1/15/2007	14	33	47
OS	MG/KG	JAX47-SB099-01-113006	B610372-07RE1	NM	11/30/2006	12/14/2006	12/20/2006	14	6	20

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-008

Lab Sample ID	Client Sample ID
B610309-01	JAX47-SB113-01-112906
B610309-02	JAX47-SB113-06-112906
B610309-01	JAX47-SB113-01-112906
B610309-01	JAX47-SB113-01-112906
B610309-01	JAX47-SB113-06-112906
B610372-01	JAX47-SB089-02-113006
B610372-02	JAX47-SB089-05-113006
B610372-03	JAX47-SB096-01-113006
B610372-04	JAX47-SB096-05-113006
B610372-05	JAX47-SB098-01-113006
B610372-06	JAX47-SB098-05-113006
B610372-07	JAX47-SB099-01-113006
B610372-08	JAX47-SB099-05-113006

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits due to the sample matrix.
- The surrogate recoveries for JAX47-SB089-02-113006, JAX47-SB096-01-113006, JAX47-SB099-01-113006 were outside the DoD QSM control limits due to sample matrix.
- 4,4-DDT for JAX47-SB096-01-113006 was run at 200,000 dilution factor. The Continuing Calibration Verification Standard result for 4,4-DDT was outside and below the DoD QSM limit, therefore the result associated with this standard/compound is considered to be estimated bias low.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.20 11:32:22 -05'00'

Christina M. Tompkins
Project Manager

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By: Chad McG	Date: 11-30-06	Time: 1130	Received By: [illegible]	Date: 11/30/06	Time: 1135
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No: **CTO 0047**	Turn Around Time: **Standard**	Field Ops Leader: **Charles Metz**	Carrier/Waybill No.	Point of Contact: **Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chuck Metz	12/01/2006	15:50	**Hand Deliver**	12/01/2006	16:50
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
				12/1/06	16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

FLORIDA DATA QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
*	Compound recovery outside of quality control limits.
L	Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range of highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
J	Estimated value. A justification will be included in the narrative for any result that has been flagged with a "J".
V	Indicates the analyte was detected in the sample and the associated method blank.
N	Presumptive evidence of a compound based on a mass spectral library search.
Q	Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-008

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB113-01-112906	B610309-01
JAX47-SB113-01-112906	B610309-01RE1
JAX47-SB113-06-112906	B610309-02
JAX47-SB113-06-112906	B610309-02RE1
JAX47-SB089-02-113006	B610372-01
JAX47-SB089-02-113006	B610372-01RE1
JAX47-SB089-02-113006	B610372-01RE2
JAX47-SB089-02-113006	B610372-01RE3
JAX47-SB089-05-113006	B610372-02
JAX47-SB089-05-113006	B610372-02RE1
JAX47-SB089-05-113006	B610372-02RE2
JAX47-SB096-01-113006	B610372-03
JAX47-SB096-01-113006	B610372-03RE1
JAX47-SB096-01-113006	B610372-03RE2
JAX47-SB096-01-113006	B610372-03RE3
JAX47-SB096-05-113006	B610372-04
JAX47-SB096-05-113006	B610372-04RE1
JAX47-SB098-01-113006	B610372-05
JAX47-SB098-01-113006	B610372-05RE1
JAX47-SB098-05-113006	B610372-06
JAX47-SB098-05-113006	B610372-06RE1
JAX47-SB099-01-113006	B610372-07
JAX47-SB099-01-113006	B610372-07RE1
JAX47-SB099-01-113006	B610372-07RE2
JAX47-SB099-01-113006	B610372-07RE3
JAX47-SB099-05-113006	B610372-08
JAX47-SB099-05-113006	B610372-08RE1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, e-mail: ctompkins-percolabs.com, c=US Date: 2007.01.20 11:16:17 -05'00'

Name: Christina Tompkins

Date: 01/20/07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-008

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.00013	0.0017	mg/kg
gamma-BHC	0.00016	0.0017	mg/kg
beta-BHC	0.00033	0.0017	mg/kg
delta-BHC	0.00016	0.0017	mg/kg
Heptachlor	0.00023	0.0017	mg/kg
Aldrin	0.00020	0.0017	mg/kg
Heptachlor epoxide	0.00056	0.0017	mg/kg
Chlordane-gamma	0.00023	0.0017	mg/kg
Chlordane-alpha	0.00026	0.0017	mg/kg
4,4′-DDE	0.00033	0.0017	mg/kg
Endosulfan I	0.00026	0.0017	mg/kg
Dieldrin	0.00023	0.0017	mg/kg
Endrin	0.00036	0.0017	mg/kg
4,4′-DDD	0.00030	0.0017	mg/kg
Endosulfan II	0.00023	0.0017	mg/kg
4,4′-DDT	0.00013	0.0017	mg/kg
Endrin aldehyde	0.00016	0.0017	mg/kg
Methoxychlor	0.00033	0.0017	mg/kg
Endosulfan sulfate	0.00026	0.0017	mg/kg
Endrin ketone	0.00030	0.0017	mg/kg
Toxaphene	0.0016	0.033	mg/kg
alpha-BHC [2C]	0.00013	0.0017	mg/kg
gamma-BHC [2C]	0.00016	0.0017	mg/kg
beta-BHC [2C]	0.00033	0.0017	mg/kg
delta-BHC [2C]	0.00016	0.0017	mg/kg
Heptachlor [2C]	0.00023	0.0017	mg/kg
Aldrin [2C]	0.00020	0.0017	mg/kg
Heptachlor epoxide [2C]	0.00056	0.0017	mg/kg
Chlordane-gamma [2C]	0.00023	0.0017	mg/kg
Chlordane-alpha [2C]	0.00026	0.0017	mg/kg
4,4'-DDE [2C]	0.00033	0.0017	mg/kg
Endosulfan I [2C]	0.00026	0.0017	mg/kg
Dieldrin [2C]	0.00023	0.0017	mg/kg
Endrin [2C]	0.00036	0.0017	mg/kg
4,4'-DDD [2C]	0.00030	0.0017	mg/kg
Endosulfan II [2C]	0.00023	0.0017	mg/kg
4,4'-DDT [2C]	0.00013	0.0017	mg/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-008

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.00016	0.0017	mg/kg
Methoxychlor [2C]	0.00033	0.0017	mg/kg
Endosulfan sulfate [2C]	0.00026	0.0017	mg/kg
Endrin ketone [2C]	0.00030	0.0017	mg/kg
Toxaphene [2C]	0.0016	0.033	mg/kg

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07024 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L07024-BLK1	9LHB037-0	12/07/06 16:27	
Blank	6L07024-BLK1	9LHA037-0	12/07/06 16:27	
LCS	6L07024-BS1	9LHB038-0	12/07/06 16:27	
LCS	6L07024-BS1	9LHA038-0	12/07/06 16:27	
JAX47-SB089-02-113006	6L07024-MS1	9LHB039-0	12/07/06 16:27	
JAX47-SB089-02-113006	6L07024-MS1	9LHA039-0	12/07/06 16:27	
JAX47-SB089-02-113006	6L07024-MSD1	9LHA040-0	12/07/06 16:27	
JAX47-SB089-02-113006	6L07024-MSD1	9LHB040-0	12/07/06 16:27	
JAX47-SB089-02-113006	B610372-01	9LQA045-0	12/07/06 16:27	MS/MSD sample
JAX47-SB089-02-113006	B610372-01	9LQB045-0	12/07/06 16:27	MS/MSD sample
JAX47-SB089-02-113006	B610372-01RE1	9LRA023-0	12/07/06 16:27	MS/MSD sample
JAX47-SB089-02-113006	B610372-01RE1	9LRB023-0	12/07/06 16:27	MS/MSD sample
JAX47-SB089-02-113006	B610372-01RE2	9LRB020-0	12/07/06 16:27	MS/MSD sample
JAX47-SB089-02-113006	B610372-01RE2	9LRA020-0	12/07/06 16:27	MS/MSD sample
JAX47-SB089-02-113006	B610372-01RE3	9AJA025-0	12/07/06 16:27	MS/MSD sample
JAX47-SB089-02-113006	B610372-01RE3	9AJB025-0	12/07/06 16:27	MS/MSD sample
JAX47-SB089-05-113006	B610372-02	9LQA046-0	12/07/06 16:27	
JAX47-SB089-05-113006	B610372-02	9LQB046-0	12/07/06 16:27	
JAX47-SB089-05-113006	B610372-02RE1	9LRA024-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB089-05-113006	B610372-02RE1	9LRB024-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB089-05-113006	B610372-02RE2	9AJA008-0	12/07/06 16:27	Added 1/16/07 by JBH
JAX47-SB089-05-113006	B610372-02RE2	9AJB008-0	12/07/06 16:27	Added 1/16/07 by JBH
JAX47-SB096-01-113006	B610372-03	9LQA047-0	12/07/06 16:27	
JAX47-SB096-01-113006	B610372-03	9LQB047-0	12/07/06 16:27	
JAX47-SB096-01-113006	B610372-03RE1	9LRB022-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB096-01-113006	B610372-03RE1	9LRA022-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB096-01-113006	B610372-03RE2	9LRB019-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB096-01-113006	B610372-03RE2	9LRA019-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB096-01-113006	B610372-03RE3	9LVA007-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB096-01-113006	B610372-03RE3	9LVB007-0	12/07/06 16:27	Added 12/26/06 by JBH
JAX47-SB096-05-113006	B610372-04	9LRA006-0	12/07/06 16:27	
JAX47-SB096-05-113006	B610372-04	9LRB006-0	12/07/06 16:27	
JAX47-SB096-05-113006	B610372-04RE1	9LUA025-0	12/07/06 16:27	Added 12/27/06 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07024 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB096-05-113006	B610372-04RE1	9LUB025-0	12/07/06 16:27	Added 12/27/06 by JBH
JAX47-SB098-01-113006	B610372-05	9LQA049-0	12/07/06 16:27	
JAX47-SB098-01-113006	B610372-05	9LQB049-0	12/07/06 16:27	
JAX47-SB098-01-113006	B610372-05RE1	9AJB009-0	12/07/06 16:27	Added 1/16/07 by JBH
JAX47-SB098-01-113006	B610372-05RE1	9AJA009-0	12/07/06 16:27	Added 1/16/07 by JBH
JAX47-SB098-05-113006	B610372-06	9LQA050-0	12/07/06 16:27	
JAX47-SB098-05-113006	B610372-06	9LQB050-0	12/07/06 16:27	
JAX47-SB098-05-113006	B610372-06RE1	9AJA010-0	12/07/06 16:27	Added 1/16/07 by JBH
JAX47-SB098-05-113006	B610372-06RE1	9AJB010-0	12/07/06 16:27	Added 1/16/07 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L13017 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L13017-BLK1	9LJB004-0	12/13/06 12:00	
Blank	6L13017-BLK1	9LJA004-0	12/13/06 12:00	
LCS	6L13017-BS1	9LJB005-0	12/13/06 12:00	
LCS	6L13017-BS1	9LJA005-0	12/13/06 12:00	
JAX47-SB100-01-113006	6L13017-MS1	9LJB006-0	12/13/06 12:00	
JAX47-SB100-01-113006	6L13017-MS1	9LJA006-0	12/13/06 12:00	
JAX47-SB100-01-113006	6L13017-MSD1	9LJA007-0	12/13/06 12:00	
JAX47-SB100-01-113006	6L13017-MSD1	9LJB007-0	12/13/06 12:00	
JAX47-SB113-01-112906	B610309-01	9LJA008-0	12/13/06 12:00	
JAX47-SB113-01-112906	B610309-01	9LJB008-0	12/13/06 12:00	
JAX47-SB113-01-112906	B610309-01RE1	9AJB004B-0	12/13/06 12:00	Added 1/16/07 by JBH
JAX47-SB113-01-112906	B610309-01RE1	9AJA004B-0	12/13/06 12:00	Added 1/16/07 by JBH
JAX47-SB113-06-112906	B610309-02	9LJB009-0	12/13/06 12:00	
JAX47-SB113-06-112906	B610309-02	9LJA009-0	12/13/06 12:00	
JAX47-SB113-06-112906	B610309-02RE1	9AJB005A-0	12/13/06 12:00	Added 1/16/07 by JBH
JAX47-SB113-06-112906	B610309-02RE1	9AJA005A-0	12/13/06 12:00	Added 1/16/07 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L14027 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L14027-BLK1	9LOB006-0	12/14/06 18:51	
Blank	6L14027-BLK1	9LOA006-0	12/14/06 18:51	
LCS	6L14027-BS1	9LOB005-0	12/14/06 18:51	
LCS	6L14027-BS1	9LOA005-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MS1	9LOB015-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MS1	9LOA015-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MSD1	9LOA016-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MSD1	9LOB016-0	12/14/06 18:51	
JAX47-SB099-01-113006	B610372-07RE1	9LOA012-0	12/14/06 18:51	From 6L07024 by MJF on 14-Dec-06
JAX47-SB099-01-113006	B610372-07RE1	9LOB012-0	12/14/06 18:51	From 6L07024 by MJF on 14-Dec-06
JAX47-SB099-01-113006	B610372-07RE2	9LQB016-0	12/14/06 18:51	Added 12/22/06 by JBH
JAX47-SB099-01-113006	B610372-07RE2	9LQA016-0	12/14/06 18:51	Added 12/22/06 by JBH
JAX47-SB099-01-113006	B610372-07RE3	9LQB018-0	12/14/06 18:51	Added 12/22/06 by JBH
JAX47-SB099-01-113006	B610372-07RE3	9LQA018-0	12/14/06 18:51	Added 12/22/06 by JBH
JAX47-SB099-05-113006	B610372-08RE1	9LOB007-0	12/14/06 18:51	From 6L07024 by MJF on 14-Dec-06
JAX47-SB099-05-113006	B610372-08RE1	9LOA007-0	12/14/06 18:51	From 6L07024 by MJF on 14-Dec-06

HOLDING TIME SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB113-01-112906	11/29/06 09:02	11/30/06 11:35	12/13/06 12:00	14.00	14.00	12/15/06 20:43	2.00	40.00	
JAX47-SB113-01-112906	11/29/06 09:02	11/30/06 11:35	12/13/06 12:00	14.00	14.00	01/15/07 17:38	33.00	40.00	
JAX47-SB113-06-112906	11/29/06 09:15	11/30/06 11:35	12/13/06 12:00	14.00	14.00	12/15/06 21:09	2.00	40.00	
JAX47-SB113-06-112906	11/29/06 09:15	11/30/06 11:35	12/13/06 12:00	14.00	14.00	01/15/07 18:04	33.00	40.00	
JAX47-SB089-02-113006	11/30/06 14:00	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 07:37	16.00	40.00	
JAX47-SB089-02-113006	11/30/06 14:00	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 21:53	16.00	40.00	
JAX47-SB089-02-113006	11/30/06 14:00	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 20:36	16.00	40.00	
JAX47-SB089-02-113006	11/30/06 14:00	12/01/06 16:50	12/07/06 16:27	7.00	14.00	01/16/07 02:41	39.00	40.00	
JAX47-SB089-05-113006	11/30/06 14:10	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 08:02	16.00	40.00	
JAX47-SB089-05-113006	11/30/06 14:10	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 22:19	16.00	40.00	
JAX47-SB089-05-113006	11/30/06 14:10	12/01/06 16:50	12/07/06 16:27	7.00	14.00	01/15/07 19:21	39.00	40.00	
JAX47-SB096-01-113006	11/30/06 14:23	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 08:28	16.00	40.00	
JAX47-SB096-01-113006	11/30/06 14:23	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 21:27	16.00	40.00	
JAX47-SB096-01-113006	11/30/06 14:23	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 20:10	16.00	40.00	
JAX47-SB096-01-113006	11/30/06 14:23	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/27/06 13:04	20.00	40.00	
JAX47-SB096-05-113006	11/30/06 14:30	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 14:34	16.00	40.00	
JAX47-SB096-05-113006	11/30/06 14:30	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/26/06 22:18	19.00	40.00	
JAX47-SB098-01-113006	11/30/06 15:11	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 09:20	16.00	40.00	
JAX47-SB098-01-113006	11/30/06 15:11	12/01/06 16:50	12/07/06 16:27	7.00	14.00	01/15/07 19:47	39.00	40.00	
JAX47-SB098-05-113006	11/30/06 15:13	12/01/06 16:50	12/07/06 16:27	7.00	14.00	12/23/06 09:46	16.00	40.00	
JAX47-SB098-05-113006	11/30/06 15:13	12/01/06 16:50	12/07/06 16:27	7.00	14.00	01/15/07 20:13	39.00	40.00	
JAX47-SB099-01-113006	11/30/06 15:25	12/01/06 16:50	12/14/06 18:51	14.00	14.00	12/20/06 15:57	6.00	40.00	
JAX47-SB099-01-113006	11/30/06 15:25	12/01/06 16:50	12/14/06 18:51	14.00	14.00	12/22/06 18:33	8.00	40.00	
JAX47-SB099-01-113006	11/30/06 15:25	12/01/06 16:50	12/14/06 18:51	14.00	14.00	12/22/06 19:51	8.00	40.00	

HOLDING TIME SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB099-05-113006	11/30/06 15:30	12/01/06 16:50	12/14/06 18:51	14.00	14.00	12/20/06 13:48	6.00	40.00	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	6L07024-BLK1	File ID:	9LHA037-0
Prepared:	12/07/06 16:27	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/14/06 04:13	Instrument:	JSVGCECD2		
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.000233	J
NA	Chlordane-alpha	0.000267	J
72-55-9	4,4′-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4′-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4′-DDT	0.0017	U
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.0017	U
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L07024-BLK1	File ID:	9LHB037-0
Prepared:	12/07/06 16:27	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/14/06 04:13	Instrument:	JSVGCECD2		
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.0017	U
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.0017	U
7421-93-4	Endrin aldehyde [2C]	0.0017	U
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0253	76	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.0260	78	70 - 125	
DBC	0.0333	0.0254	76	55 - 130	
DBC [2C]	0.0333	0.0265	80	55 - 130	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L13017-BLK1	File ID:	9LJA004-0
Prepared:	12/13/06 12:00	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/15/06 19:00	Instrument:	JSVGCECD2		
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4'-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4'-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4'-DDT	0.000167	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.0017	U
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L13017-BLK1	File ID:	9LJB004-0
Prepared:	12/13/06 12:00	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/15/06 19:00	Instrument:	JSVGCECD2		
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.0017	U
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.000133	J
7421-93-4	Endrin aldehyde [2C]	0.000567	J
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0288	86	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.0286	86	70 - 125	
DBC	0.0333	0.0302	91	55 - 130	
DBC [2C]	0.0333	0.0304	91	55 - 130	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L14027-BLK1	File ID:	9LOA006-0
Prepared:	12/14/06 18:51	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/20/06 13:22	Instrument:	JSVGCECD2		
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4'-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4'-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4'-DDT	0.000300	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.000333	J
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	6L14027-BLK1	File ID:	9LOB006-0
Prepared:	12/14/06 18:51	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/20/06 13:22	Instrument:	JSVGCECD2		
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.000467	J
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.000267	J
7421-93-4	Endrin aldehyde [2C]	0.000267	J
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0279	84	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.0270	81	70 - 125	
DBC	0.0333	0.0292	88	55 - 130	
DBC [2C]	0.0333	0.0288	86	55 - 130	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB089-02-113006

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L07024
Laboratory ID: 6L07024-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB089-02-113006

✓ = higher of 2 results

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0350	0.000910	0.0296	82	60 - 125
gamma-BHC	0.0350	0.00305	0.0332	86	60 - 125
Both beta-BHC	0.0350	0.00116	0.229 ✓	652 *	60 - 125
delta-BHC	0.0350	0.00154	0.0323 ✓	88	55 - 130
RPD Heptachlor	0.0350	0.0158	0.0731 ✓	164 *	50 - 140
Aldrin	0.0350	ND	0.0268	77	45 - 140
Heptachlor epoxide	0.0350	0.0423	0.105 ✓	179 *	65 - 130
Both Chlordane-gamma	0.0350	0.220	0.241 ✓	58 *	65 - 125
Both Chlordane-alpha	0.0350	0.00242	ND ✓	-7 *	65 - 120
4,4'-DDE	0.0350	0.110	0.141 ✓	87	70 - 125
Endosulfan I	0.0350	ND	0.0310	89	15 - 135
Both Dieldrin	0.0350	0.143	0.162 ✓	52 *	65 - 125
RPD Endrin	0.0350	0.0358	0.0921 ✓	161 *	60 - 135
4,4'-DDD	0.0350	0.0360	0.216	514 *	30 - 135
Endosulfan II	0.0350	0.0144	0.0510	105	35 - 140
Both 4,4'-DDT	0.0350	0.0140	0.309 ✓	844 *	45 - 140
Endrin aldehyde	0.0350	ND	0.0345	99	35 - 145
Methoxychlor	0.0350	0.00410	0.0466 ✓	121	55 - 145
Endosulfan sulfate	0.0350	0.000945	0.0369 ✓	103	60 - 135
Endrin ketone	0.0350	0.00298	0.0342	89	65 - 135
alpha-BHC [2C]	0.0350	0.00210	0.0296	79	60 - 125
gamma-BHC [2C]	0.0350	0.00256	0.0322	85	60 - 125
beta-BHC [2C]	0.0350	0.108	0.212	296 *	60 - 125
delta-BHC [2C]	0.0350	0.0198	0.0312	32 *	55 - 130
Heptachlor [2C]	0.0350	0.00721	0.0695	178 *	50 - 140
Aldrin [2C]	0.0350	ND	0.0350 ✓	100	45 - 140
Heptachlor epoxide [2C]	0.0350	0.0101	0.0489	111	65 - 130
Chlordane-gamma [2C]	0.0350	0.189	0.204	43 *	65 - 125
Chlordane-alpha [2C]	0.0350	0.193	0.212	55 *	65 - 120
4,4'-DDE [2C]	0.0350	0.100	0.132	89	70 - 125
Endosulfan I [2C]	0.0350	ND	0.0494 ✓	141 *	15 - 135
Dieldrin [2C]	0.0350	0.131	0.152	60 *	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8081A

JAX47-SB089-02-113006

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L07024
Laboratory ID: 6L07024-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0350	0.0361	0.0782	120	60 - 135
4,4'-DDD [2C]	0.0350	0.0174	0.219	577 *	30 - 135
Endosulfan II [2C]	0.0350	0.00777	0.0553	136	35 - 140
4,4'-DDT [2C]	0.0350	0.00207	0.289	820 *	45 - 140
Endrin aldehyde [2C]	0.0350	ND	0.0754	215 *	35 - 145
Methoxychlor [2C]	0.0350	0.000385	0.0347	98	55 - 145
Endosulfan sulfate [2C]	0.0350	0.00147	0.0330	90	60 - 135
Endrin ketone [2C]	0.0350	0.00651	0.0372	88	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0350	0.0261	72	12	30	60 - 125
gamma-BHC	0.0350	0.0288	74	14	30	60 - 125
beta-BHC	0.0350	0.108	304 *	72 *	30	60 - 125
delta-BHC	0.0350	0.0282	76	14	30	55 - 130
Heptachlor	0.0350	0.0401	70	58 *	30	50 - 140
Aldrin	0.0350	0.0261	75	3	30	45 - 140
Heptachlor epoxide	0.0350	0.0785	103	29	30	65 - 130
Chlordane-gamma	0.0350	0.216	-12 *	11	30	65 - 125
Chlordane-alpha	0.0350	0.332	943 *		30	65 - 120
4,4'-DDE	0.0350	0.109	-4 *	26	30	70 - 125
Endosulfan I	0.0350	0.0270	77	14	30	15 - 135
Dieldrin	0.0350	0.130	-38 *	22	30	65 - 125
Endrin	0.0350	0.0613	73	40 *	30	60 - 135
4,4'-DDD	0.0350	0.184	422 *	16	30	30 - 135
Endosulfan II	0.0350	0.0376	66	30	30	35 - 140
4,4'-DDT	0.0350	0.295	803 *	5	30	45 - 140
Endrin aldehyde	0.0350	0.0286	82	19	30	35 - 145
Methoxychlor	0.0350	0.0380	97	20	30	55 - 145
Endosulfan sulfate	0.0350	0.0310	86	17	30	60 - 135
Endrin ketone	0.0350	0.0292	75	16	30	65 - 135
alpha-BHC [2C]	0.0350	0.0265	70	11	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L07024	Laboratory ID:	6L07024-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0350	0.0284	74	13	30	60 - 125
beta-BHC [2C]	0.0350	0.104	-13 *	69 *	30	60 - 125
delta-BHC [2C]	0.0350	0.0273	21 *	13	30	55 - 130
Heptachlor [2C]	0.0350	0.0391	91	56 *	30	50 - 140
Aldrin [2C]	0.0350	0.0284 ✓	81	21	30	45 - 140
Heptachlor epoxide [2C]	0.0350	0.0354	72	32 *	30	65 - 130
Chlordane-gamma [2C]	0.0350	0.172	-49 *	17	30	65 - 125
Chlordane-alpha [2C]	0.0350	0.139	-155 *	42 *	30	65 - 120
4,4'-DDE [2C]	0.0350	0.100	0 *	27	30	70 - 125
Endosulfan I [2C]	0.0350	0.0212	60	80 *	30	15 - 135
Dieldrin [2C]	0.0350	0.125	-16 *	19	30	65 - 125
Endrin [2C]	0.0350	0.0595 ✓	67	27	30	60 - 135
4,4'-DDD [2C]	0.0350	0.210 ✓	551 *	4	30	30 - 135
Endosulfan II [2C]	0.0350	0.0537 ✓	131	3	30	35 - 140
4,4'-DDT [2C]	0.0350	0.282	799 *	3	30	45 - 140
Endrin aldehyde [2C]	0.0350	0.0559 ✓	160 *	30	30	35 - 145
Methoxychlor [2C]	0.0350	0.0303	85	13	30	55 - 145
Endosulfan sulfate [2C]	0.0350	0.0296	80	11	30	60 - 135
Endrin ketone [2C]	0.0350	0.0316 ✓	72	16	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L13017	Laboratory ID:	6L13017-MS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0347	0.00198	0.0324	88	60 - 125
gamma-BHC	0.0347	0.00115	0.0320	89	60 - 125
beta-BHC	0.0347	0.00351	0.000521	-9 *	60 - 125
delta-BHC	0.0347	0.00372	0.0361	93	55 - 130
Heptachlor	0.0347	ND	0.0300	86	50 - 140
Aldrin	0.0347	0.000313	0.000556	0.7 *	45 - 140
Heptachlor epoxide	0.0347	0.0243	0.0557	90	65 - 130
Chlordane-gamma	0.0347	0.106	0.132	76	65 - 125
Chlordane-alpha	0.0347	0.000486	0.000591	0.3 *	65 - 120
4,4′-DDE	0.0347	0.178	0.176	-6 *	70 - 125
Endosulfan I	0.0347	ND	0.00518	15	15 - 135
Dieldrin	0.0347	0.0525	0.0844	92	65 - 125
Endrin	0.0347	0.00994	0.104	272 *	60 - 135
4,4′-DDD	0.0347	0.222	0.0241	-569 *	30 - 135
Endosulfan II	0.0347	ND	0.0380	109	35 - 140
4,4′-DDT	0.0347	0.239	0.0154	-642 *	45 - 140
Endrin aldehyde	0.0347	ND	0.0448	129	35 - 145
Methoxychlor	0.0347	0.0294	0.0722	123	55 - 145
Endosulfan sulfate	0.0347	0.00215	0.00330	3 *	60 - 135
Endrin ketone	0.0347	ND	0.000347	1 *	65 - 135
alpha-BHC [2C]	0.0347	0.00174	0.0313	85	60 - 125
gamma-BHC [2C]	0.0347	0.00132	0.0303	84	60 - 125
beta-BHC [2C]	0.0347	0.00219	0.0319	85	60 - 125
delta-BHC [2C]	0.0347	0.00323	0.0344	90	55 - 130
Heptachlor [2C]	0.0347	ND	0.0289	83	50 - 140
Aldrin [2C]	0.0347	0.000486	0.0305	86	45 - 140
Heptachlor epoxide [2C]	0.0347	0.000973	0.000799	-0.5 *	65 - 130
Chlordane-gamma [2C]	0.0347	0.117	0.124	21 *	65 - 125
Chlordane-alpha [2C]	0.0347	0.0707	0.110	115	65 - 120
4,4'-DDE [2C]	0.0347	0.161	0.156	-14 *	70 - 125
Endosulfan I [2C]	0.0347	ND	0.0474	136 *	15 - 135
Dieldrin [2C]	0.0347	0.0522	0.0757	68	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB100-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L13017
Laboratory ID: 6L13017-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0347	0.0183	0.0571	112	60 - 135
4,4'-DDD [2C]	0.0347	0.0157	0.0157	-0.1 *	30 - 135
Endosulfan II [2C]	0.0347	ND	0.0524	151 *	35 - 140
4,4'-DDT [2C]	0.0347	0.236	0.238	5 *	45 - 140
Endrin aldehyde [2C]	0.0347	ND	0.0484	139	35 - 145
Methoxychlor [2C]	0.0347	0.00101	0.0389	109	55 - 145
Endosulfan sulfate [2C]	0.0347	0.00389	0.0371	96	60 - 135
Endrin ketone [2C]	0.0347	0.0209	0.0401	55 *	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0347	0.0174	44 *	61 *	30	60 - 125
gamma-BHC	0.0347	0.0174	47 *	59 *	30	60 - 125
beta-BHC	0.0347	0.0183	43 *	189 *	30	60 - 125
delta-BHC	0.0347	0.0185	42 *	65 *	30	55 - 130
Heptachlor	0.0347	0.0165	47 *	58 *	30	50 - 140
Aldrin	0.0347	0.0161	45	187 *	30	45 - 140
Heptachlor epoxide	0.0347	0.0273	9 *	68 *	30	65 - 130
Chlordane-gamma	0.0347	0.0722	-96 *	59 *	30	65 - 125
Chlordane-alpha	0.0347	ND	-1 *		30	65 - 120
4,4'-DDE	0.0347	0.140	-110 *	23	30	70 - 125
Endosulfan I	0.0347	0.00198	6 *	89 *	30	15 - 135
Dieldrin	0.0347	0.0416	-31 *	68 *	30	65 - 125
Endrin	0.0347	0.0475	108	75 *	30	60 - 135
4,4'-DDD	0.0347	0.0119	-604 *	68 *	30	30 - 135
Endosulfan II	0.0347	0.0201	58	62 *	30	35 - 140
4,4'-DDT	0.0347	0.208	-88 *	172 *	30	45 - 140
Endrin aldehyde	0.0347	0.0227	65	66 *	30	35 - 145
Methoxychlor	0.0347	0.0344	14 *	71 *	30	55 - 145
Endosulfan sulfate	0.0347	0.00142	-2 *	79 *	30	60 - 135
Endrin ketone	0.0347	0.0187	54 *	193 *	30	65 - 135
alpha-BHC [2C]	0.0347	0.0171	44 *	59 *	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L13017	Laboratory ID:	6L13017-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0347	0.0170	45 *	57 *	30	60 - 125
beta-BHC [2C]	0.0347	0.0176	44 *	58 *	30	60 - 125
delta-BHC [2C]	0.0347	0.0182	43 *	62 *	30	55 - 130
Heptachlor [2C]	0.0347	0.0160	46 *	57 *	30	50 - 140
Aldrin [2C]	0.0347	0.0169	47	57 *	30	45 - 140
Heptachlor epoxide [2C]	0.0347	ND	-3 *		30	65 - 130
Chlordane-gamma [2C]	0.0347	0.0722	-130 *	53 *	30	65 - 125
Chlordane-alpha [2C]	0.0347	0.0539	-48 *	69 *	30	65 - 120
4,4'-DDE [2C]	0.0347	0.127	-96 *	20	30	70 - 125
Endosulfan I [2C]	0.0347	0.0207	60	79 *	30	15 - 135
Dieldrin [2C]	0.0347	0.0391	-38 *	64 *	30	65 - 125
Endrin [2C]	0.0347	0.0291	31 *	65 *	30	60 - 135
4,4'-DDD [2C]	0.0347	0.00726	-24 *	73 *	30	30 - 135
Endosulfan II [2C]	0.0347	0.0260	75	67 *	30	35 - 140
4,4'-DDT [2C]	0.0347	0.200	-102 *	17	30	45 - 140
Endrin aldehyde [2C]	0.0347	0.0208	60	80 *	30	35 - 145
Methoxychlor [2C]	0.0347	0.0192	52 *	68 *	30	55 - 145
Endosulfan sulfate [2C]	0.0347	0.0199	46 *	60 *	30	60 - 135
Endrin ketone [2C]	0.0347	0.0225	5 *	56 *	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0343	0.000274	0.0242	70	60 - 125
gamma-BHC	0.0343	0.000961	0.0297	84	60 - 125
beta-BHC	0.0343	0.00168	0.0290	80	60 - 125
delta-BHC	0.0343	0.000583	0.0231	66	55 - 130
Heptachlor	0.0343	0.000412	0.0242	69	50 - 140
Aldrin	0.0343	ND	0.0232	68	45 - 140
Heptachlor epoxide	0.0343	0.0338	0.0484	42 *	65 - 130
Chlordane-gamma	0.0343	0.154	0.141	-39 *	65 - 125
Chlordane-alpha	0.0343	0.000892	0.000686	-0.6 *	65 - 120
4,4'-DDE	0.0343	0.216	0.201	-44 *	70 - 125
Endosulfan I	0.0343	ND	0.0256	75	15 - 135
Dieldrin	0.0343	0.127	0.117	-28 *	65 - 125
Endrin	0.0343	0.0458	0.0566	32 *	60 - 135
4,4'-DDD	0.0343	0.0647	0.0841	57	30 - 135
Endosulfan II	0.0343	ND	0.0377	110	35 - 140
4,4'-DDT	0.0343	0.249	0.240	-26 *	45 - 140
Endrin aldehyde	0.0343	0.0130	0.0313	53	35 - 145
Methoxychlor	0.0343	0.0122	0.0352	67	55 - 145
Endosulfan sulfate	0.0343	0.0102	0.0332	67	60 - 135
Endrin ketone	0.0343	0.00974	0.0316	64 *	65 - 135
alpha-BHC [2C]	0.0343	0.000240	0.0229	66	60 - 125
gamma-BHC [2C]	0.0343	0.00110	0.0285	80	60 - 125
beta-BHC [2C]	0.0343	0.000926	0.0239	67	60 - 125
delta-BHC [2C]	0.0343	0.000480	0.0210	60	55 - 130
Heptachlor [2C]	0.0343	0.000515	0.0224	64	50 - 140
Aldrin [2C]	0.0343	0.000995	0.0285	80	45 - 140
Heptachlor epoxide [2C]	0.0343	0.0110	0.0303	56 *	65 - 130
Chlordane-gamma [2C]	0.0343	0.111	0.133	64 *	65 - 125
Chlordane-alpha [2C]	0.0343	0.144	0.115	-84 *	65 - 120
4,4'-DDE [2C]	0.0343	0.189	0.179	-30 *	70 - 125
Endosulfan I [2C]	0.0343	ND	0.0267	78	15 - 135
Dieldrin [2C]	0.0343	0.121	0.110	-34 *	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L14027	Laboratory ID:	6L14027-MS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0343	0.0422	0.0503	24 *	60 - 135
4,4'-DDD [2C]	0.0343	0.104	0.106	8 *	30 - 135
Endosulfan II [2C]	0.0343	ND	0.0310	90	35 - 140
4,4'-DDT [2C]	0.0343	0.248	0.235	-37 *	45 - 140
Endrin aldehyde [2C]	0.0343	0.0199	0.0425	66	35 - 145
Methoxychlor [2C]	0.0343	0.000480	0.0344	99	55 - 145
Endosulfan sulfate [2C]	0.0343	0.00642	0.0283	64	60 - 135
Endrin ketone [2C]	0.0343	0.0175	0.0424	73	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0343	0.0309	89	25	30	60 - 125
gamma-BHC	0.0343	0.0346	98	15	30	60 - 125
beta-BHC	0.0343	0.0322	89	10	30	60 - 125
delta-BHC	0.0343	0.0306	87	28	30	55 - 130
Heptachlor	0.0343	0.0302	87	22	30	50 - 140
Aldrin	0.0343	0.0289	84	22	30	45 - 140
Heptachlor epoxide	0.0343	0.0593	74	20	30	65 - 130
Chlordane-gamma	0.0343	0.151	-8 *	7	30	65 - 125
Chlordane-alpha	0.0343	0.000892	0 *	26	30	65 - 120
4,4'-DDE	0.0343	0.209	-20 *	4	30	70 - 125
Endosulfan I	0.0343	0.0330	96	25	30	15 - 135
Dieldrin	0.0343	0.126	-3 *	7	30	65 - 125
Endrin	0.0343	0.0679	65	18	30	60 - 135
4,4'-DDD	0.0343	0.118	155 *	33 *	30	30 - 135
Endosulfan II	0.0343	0.0434	126	14	30	35 - 140
4,4'-DDT	0.0343	0.246	-9 *	2	30	45 - 140
Endrin aldehyde	0.0343	0.0405	80	26	30	35 - 145
Methoxychlor	0.0343	0.0497	109	34 *	30	55 - 145
Endosulfan sulfate	0.0343	0.0539	127	47 *	30	60 - 135
Endrin ketone	0.0343	0.0464	107	38 *	30	65 - 135
alpha-BHC [2C]	0.0343	0.0295	85	25	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L14027	Laboratory ID:	6L14027-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0343	0.0333	94	16	30	60 - 125
beta-BHC [2C]	0.0343	0.0304	86	24	30	60 - 125
delta-BHC [2C]	0.0343	0.0274	78	27	30	55 - 130
Heptachlor [2C]	0.0343	0.0282	81	23	30	50 - 140
Aldrin [2C]	0.0343	0.0305	86	7	30	45 - 140
Heptachlor epoxide [2C]	0.0343	0.0371	76	20	30	65 - 130
Chlordane-gamma [2C]	0.0343	0.113	6 *	16	30	65 - 125
Chlordane-alpha [2C]	0.0343	0.119	-72 *	4	30	65 - 120
4,4'-DDE [2C]	0.0343	0.187	-8 *	4	30	70 - 125
Endosulfan I [2C]	0.0343	0.0342	100	25	30	15 - 135
Dieldrin [2C]	0.0343	0.120	-5 *	9	30	65 - 125
Endrin [2C]	0.0343	0.0622	58 *	21	30	60 - 135
4,4'-DDD [2C]	0.0343	0.139	104	27	30	30 - 135
Endosulfan II [2C]	0.0343	0.0392	114	23	30	35 - 140
4,4'-DDT [2C]	0.0343	0.244	-11 *	4	30	45 - 140
Endrin aldehyde [2C]	0.0343	0.0564	106	28	30	35 - 145
Methoxychlor [2C]	0.0343	0.0455	131	28	30	55 - 145
Endosulfan sulfate [2C]	0.0343	0.0382	93	30	30	60 - 135
Endrin ketone [2C]	0.0343	0.0477	88	12	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L07024
Laboratory ID: 6L07024-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0293	88	60 - 125
gamma-BHC	0.0333	0.0295	89	60 - 125
beta-BHC	0.0333	0.0308	92	60 - 125
delta-BHC	0.0333	0.0296	89	55 - 130
Heptachlor	0.0333	0.0279	84	50 - 140
Aldrin	0.0333	0.0282	85	45 - 140
Heptachlor epoxide	0.0333	0.0275	82	65 - 130
Chlordane-gamma	0.0333	0.0289	87	65 - 125
Chlordane-alpha	0.0333	0.0287	86	65 - 120
4,4′-DDE	0.0333	0.0285	86	70 - 125
Endosulfan I	0.0333	0.0277	83	15 - 135
Dieldrin	0.0333	0.0283	85	65 - 125
Endrin	0.0333	0.0288	86	60 - 135
4,4′-DDD	0.0333	0.0286	86	30 - 135
Endosulfan II	0.0333	0.0284	85	35 - 140
4,4′-DDT	0.0333	0.0282	85	45 - 140
Endrin aldehyde	0.0333	0.0259	78	35 - 145
Methoxychlor	0.0333	0.0271	81	55 - 145
Endosulfan sulfate	0.0333	0.0301	90	60 - 135
Endrin ketone	0.0333	0.0294	88	65 - 135
alpha-BHC [2C]	0.0333	0.0298	89	60 - 125
gamma-BHC [2C]	0.0333	0.0302	91	60 - 125
beta-BHC [2C]	0.0333	0.0315	95	60 - 125
delta-BHC [2C]	0.0333	0.0299	90	55 - 130
Heptachlor [2C]	0.0333	0.0287	86	50 - 140
Aldrin [2C]	0.0333	0.0291	87	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0288	86	65 - 130
Chlordane-gamma [2C]	0.0333	0.0300	90	65 - 125
Chlordane-alpha [2C]	0.0333	0.0295	88	65 - 120
4,4'-DDE [2C]	0.0333	0.0298	89	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L07024	Laboratory ID:	6L07024-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0286	86	15 - 135
Dieldrin [2C]	0.0333	0.0293	88	65 - 125
Endrin [2C]	0.0333	0.0299	90	60 - 135
4,4'-DDD [2C]	0.0333	0.0300	90	30 - 135
Endosulfan II [2C]	0.0333	0.0294	88	35 - 140
4,4'-DDT [2C]	0.0333	0.0296	89	45 - 140
Endrin aldehyde [2C]	0.0333	0.0270	81	35 - 145
Methoxychlor [2C]	0.0333	0.0279	84	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0311	93	60 - 135
Endrin ketone [2C]	0.0333	0.0301	90	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L13017	Laboratory ID:	6L13017-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0273	82	60 - 125
gamma-BHC	0.0333	0.0277	83	60 - 125
beta-BHC	0.0333	0.0289	87	60 - 125
delta-BHC	0.0333	0.0278	83	55 - 130
Heptachlor	0.0333	0.0268	80	50 - 140
Aldrin	0.0333	0.0271	81	45 - 140
Heptachlor epoxide	0.0333	0.0269	81	65 - 130
Chlordane-gamma	0.0333	0.0273	82	65 - 125
Chlordane-alpha	0.0333	0.0272	82	65 - 120
4,4'-DDE	0.0333	0.0275	82	70 - 125
Endosulfan I	0.0333	0.0270	81	15 - 135
Dieldrin	0.0333	0.0278	83	65 - 125
Endrin	0.0333	0.0263	79	60 - 135
4,4'-DDD	0.0333	0.0280	84	30 - 135
Endosulfan II	0.0333	0.0276	83	35 - 140
4,4'-DDT	0.0333	0.0274	82	45 - 140
Endrin aldehyde	0.0333	0.0249	75	35 - 145
Methoxychlor	0.0333	0.0264	79	55 - 145
Endosulfan sulfate	0.0333	0.0280	84	60 - 135
Endrin ketone	0.0333	0.0284	85	65 - 135
alpha-BHC [2C]	0.0333	0.0274	82	60 - 125
gamma-BHC [2C]	0.0333	0.0278	83	60 - 125
beta-BHC [2C]	0.0333	0.0288	86	60 - 125
delta-BHC [2C]	0.0333	0.0277	83	55 - 130
Heptachlor [2C]	0.0333	0.0269	81	50 - 140
Aldrin [2C]	0.0333	0.0273	82	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0273	82	65 - 130
Chlordane-gamma [2C]	0.0333	0.0274	82	65 - 125
Chlordane-alpha [2C]	0.0333	0.0271	81	65 - 120
4,4'-DDE [2C]	0.0333	0.0278	83	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L13017	Laboratory ID:	6L13017-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0269	81	15 - 135
Dieldrin [2C]	0.0333	0.0277	83	65 - 125
Endrin [2C]	0.0333	0.0263	79	60 - 135
4,4'-DDD [2C]	0.0333	0.0280	84	30 - 135
Endosulfan II [2C]	0.0333	0.0276	83	35 - 140
4,4'-DDT [2C]	0.0333	0.0276	83	45 - 140
Endrin aldehyde [2C]	0.0333	0.0251	75	35 - 145
Methoxychlor [2C]	0.0333	0.0264	79	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0283	85	60 - 135
Endrin ketone [2C]	0.0333	0.0283	85	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0293	88	60 - 125
gamma-BHC	0.0333	0.0295	89	60 - 125
beta-BHC	0.0333	0.0312	94	60 - 125
delta-BHC	0.0333	0.0280	84	55 - 130
Heptachlor	0.0333	0.0292	88	50 - 140
Aldrin	0.0333	0.0288	86	45 - 140
Heptachlor epoxide	0.0333	0.0294	88	65 - 130
Chlordane-gamma	0.0333	0.0290	87	65 - 125
Chlordane-alpha	0.0333	0.0290	87	65 - 120
4,4′-DDE	0.0333	0.0301	90	70 - 125
Endosulfan I	0.0333	0.0291	87	15 - 135
Dieldrin	0.0333	0.0299	90	65 - 125
Endrin	0.0333	0.0303	91	60 - 135
4,4′-DDD	0.0333	0.0309	93	30 - 135
Endosulfan II	0.0333	0.0298	89	35 - 140
4,4′-DDT	0.0333	0.0292	88	45 - 140
Endrin aldehyde	0.0333	0.0295	89	35 - 145
Methoxychlor	0.0333	0.0290	87	55 - 145
Endosulfan sulfate	0.0333	0.0299	90	60 - 135
Endrin ketone	0.0333	0.0273	82	65 - 135
alpha-BHC [2C]	0.0333	0.0284	85	60 - 125
gamma-BHC [2C]	0.0333	0.0286	86	60 - 125
beta-BHC [2C]	0.0333	0.0296	89	60 - 125
delta-BHC [2C]	0.0333	0.0266	80	55 - 130
Heptachlor [2C]	0.0333	0.0277	83	50 - 140
Aldrin [2C]	0.0333	0.0285	85	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0282	85	65 - 130
Chlordane-gamma [2C]	0.0333	0.0285	85	65 - 125
Chlordane-alpha [2C]	0.0333	0.0283	85	65 - 120
4,4'-DDE [2C]	0.0333	0.0297	89	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L14027	Laboratory ID:	6L14027-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0289	87	15 - 135
Dieldrin [2C]	0.0333	0.0293	88	65 - 125
Endrin [2C]	0.0333	0.0299	90	60 - 135
4,4'-DDD [2C]	0.0333	0.0303	91	30 - 135
Endosulfan II [2C]	0.0333	0.0296	89	35 - 140
4,4'-DDT [2C]	0.0333	0.0282	85	45 - 140
Endrin aldehyde [2C]	0.0333	0.0291	87	35 - 145
Methoxychlor [2C]	0.0333	0.0293	88	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0297	89	60 - 135
Endrin ketone [2C]	0.0333	0.0275	82	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L07024-BLK1)			Lab File ID: 9LHA037-0		Analyzed: 12/14/06 04:13			
2,4,5,6-TCMX	0.0333	76	70 - 125	6.848	6.848286	-0.0003	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	78	70 - 125	6.565	6.564286	0.0007	+/-0.3	
DBC	0.0333	76	55 - 130	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	0.0333	80	55 - 130	13.909	13.90914	-0.0001	+/-0.3	
JAX47-SB089-02-113006 (B610372-01)			Lab File ID: 9LQA045-0		Analyzed: 12/23/06 07:37			
2,4,5,6-TCMX	0.0350	83	70 - 125	6.7	6.848286	-0.1483	+/-0.3	
2,4,5,6-TCMX [2C]	0.0350	81	70 - 125	6.432	6.564286	-0.1323	+/-0.3	
DBC	0.0350	10	55 - 130	14.015	14.10214	-0.0871	+/-0.3	*
DBC [2C]	0.0350	2	55 - 130	13.831	13.90914	-0.0781	+/-0.3	*
JAX47-SB089-05-113006 (B610372-02)			Lab File ID: 9LQA046-0		Analyzed: 12/23/06 08:02			
2,4,5,6-TCMX	0.0350	88	70 - 125	6.699	6.848286	-0.1493	+/-0.3	
2,4,5,6-TCMX [2C]	0.0350	87	70 - 125	6.431	6.564286	-0.1333	+/-0.3	
DBC	0.0350	87	55 - 130	14.018	14.10214	-0.0841	+/-0.3	
DBC [2C]	0.0350	88	55 - 130	13.787	13.90914	-0.1221	+/-0.3	
JAX47-SB096-01-113006 (B610372-03)			Lab File ID: 9LQA047-0		Analyzed: 12/23/06 08:28			
2,4,5,6-TCMX	0.0343	10	70 - 125	6.748	6.848286	-0.1003	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0343	70	70 - 125	6.435	6.564286	-0.1293	+/-0.3	
DBC	0.0343	234	55 - 130	13.979	14.10214	-0.1231	+/-0.3	*
DBC [2C]	0.0343	408	55 - 130	13.796	13.90914	-0.1131	+/-0.3	*
JAX47-SB098-01-113006 (B610372-05)			Lab File ID: 9LQA049-0		Analyzed: 12/23/06 09:20			
2,4,5,6-TCMX	0.0363	75	70 - 125	6.701	6.848286	-0.1473	+/-0.3	
2,4,5,6-TCMX [2C]	0.0363	74	70 - 125	6.433	6.564286	-0.1313	+/-0.3	
DBC	0.0363	79	55 - 130	14.013	14.10214	-0.0891	+/-0.3	
DBC [2C]	0.0363	70	55 - 130	13.786	13.90914	-0.1231	+/-0.3	
JAX47-SB098-05-113006 (B610372-06)			Lab File ID: 9LQA050-0		Analyzed: 12/23/06 09:46			
2,4,5,6-TCMX	0.0351	84	70 - 125	6.7	6.848286	-0.1483	+/-0.3	
2,4,5,6-TCMX [2C]	0.0351	83	70 - 125	6.433	6.564286	-0.1313	+/-0.3	
DBC	0.0351	83	55 - 130	14.02	14.10214	-0.0821	+/-0.3	
DBC [2C]	0.0351		55 - 130	13.815	13.90914	-0.0941	+/-0.3	*
JAX47-SB096-05-113006 (B610372-04)			Lab File ID: 9LRA006-0		Analyzed: 12/23/06 14:34			
2,4,5,6-TCMX	0.0344	83	70 - 125	6.678	6.848286	-0.1703	+/-0.3	
2,4,5,6-TCMX [2C]	0.0344	81	70 - 125	6.411	6.564286	-0.1533	+/-0.3	
DBC	0.0344	84	55 - 130	13.948	14.10214	-0.1541	+/-0.3	
DBC [2C]	0.0344	82	55 - 130	13.773	13.90914	-0.1361	+/-0.3	

on tetrachloro

Lab recalc

SURROGATE STANDARD RECOVERY AND RT SUMMARY

Laboratory: SDG:

Client: Project:

Sequence: Instrument:

Matrix: Calibration:

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00094	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L13017-BLK1)			Lab File ID: 9LJA004-0		Analyzed: 12/15/06 19:00			
2,4,5,6-TCMX	0.0333	86	70 - 125	6.817	6.848286	-0.0313	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	86	70 - 125	6.536	6.564286	-0.0283	+/-0.3	
DBC	0.0333	91	55 - 130	14.076	14.10214	-0.0261	+/-0.3	
DBC [2C]	0.0333	91	55 - 130	13.884	13.90914	-0.0251	+/-0.3	
JAX47-SB113-01-112906 (B610309-01)			Lab File ID: 9LJA008-0		Analyzed: 12/15/06 20:43			
2,4,5,6-TCMX	0.0474	91	70 - 125	6.817	6.848286	-0.0313	+/-0.3	
2,4,5,6-TCMX [2C]	0.0474	90	70 - 125	6.536	6.564286	-0.0283	+/-0.3	
DBC	0.0474	2	55 - 130	14.121	14.10214	0.0189	+/-0.3	*
DBC [2C]	0.0474	96	55 - 130	13.884	13.90914	-0.0251	+/-0.3	
JAX47-SB113-06-112906 (B610309-02)			Lab File ID: 9LJA009-0		Analyzed: 12/15/06 21:09			
2,4,5,6-TCMX	0.0441	87	70 - 125	6.819	6.848286	-0.0293	+/-0.3	
2,4,5,6-TCMX [2C]	0.0441	87	70 - 125	6.538	6.564286	-0.0263	+/-0.3	
DBC	0.0441	89	55 - 130	14.077	14.10214	-0.0251	+/-0.3	
DBC [2C]	0.0441	88	55 - 130	13.886	13.90914	-0.0231	+/-0.3	

~~FOR~~ see raw data following Lab misidentified the surrogate

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L14027-BLK1)			Lab File ID: 9LOA006-0		Analyzed: 12/20/06 13:22			
2,4,5,6-TCMX	0.0333	84	70 - 125	6.757	6.848286	-0.0913	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	81	70 - 125	6.48	6.564286	-0.0843	+/-0.3	
DBC	0.0333	88	55 - 130	14.017	14.10214	-0.0851	+/-0.3	
DBC [2C]	0.0333	86	55 - 130	13.832	13.90914	-0.0771	+/-0.3	
JAX47-SB099-05-113006 (B610372-08RE1)			Lab File ID: 9LOA007-0		Analyzed: 12/20/06 13:48			
2,4,5,6-TCMX	0.0390	80	70 - 125	6.753	6.848286	-0.0953	+/-0.3	
2,4,5,6-TCMX [2C]	0.0390	76	70 - 125	6.48	6.564286	-0.0843	+/-0.3	
DBC	0.0390	83	55 - 130	14.015	14.10214	-0.0871	+/-0.3	
DBC [2C]	0.0390	80	55 - 130	13.831	13.90914	-0.0781	+/-0.3	
JAX47-SB099-01-113006 (B610372-07RE1)			Lab File ID: 9LOA012-0		Analyzed: 12/20/06 15:57			
2,4,5,6-TCMX	0.0355	68	70 - 125	6.755	6.848286	-0.0933	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0355	63	70 - 125	6.482	6.564286	-0.0823	+/-0.3	*
DBC	0.0355	166	55 - 130	14.04	14.10214	-0.0621	+/-0.3	*
DBC [2C]	0.0355	98	55 - 130	13.832	13.90914	-0.0771	+/-0.3	

Software Version: 4.1<1L22>
Sample Name : b610309-01 Time : 12/21/06 06:18 PM
Sample Number: 8 Study : 8081 s
Operator : jbh

Instrument : JSVGCECD2 Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 4207271739 Data Acquisition Time: 12/15/06 08:43 PM
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 4.1660 pts/sec

Raw Data File : C:\TC4\HP6890\9LJA008.RAW
Result File : C:\TC4\HP6890\9lja008.rst
Inst Method : C:\TC4\HP6890\608-2 from C:\TC4\HP6890\9lja008.rst
Proc Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9lja008.rst
Calib Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9lja008.rst
Sequence File : C:\TC4\METHODS\9LJ.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

manually adjusted baseline
JBH 12/22/06

Environmental Conservation Laboratories

==========
PRIMARY COLUMN (DETECTOR A) STX-Clpesticide 30M .32id .50DF
EPA 8081 Analysis Curve 0.005mg/L --> 0.2mg/L (8081a9lg on 12/12/06)
1 ppm TCMX(surr) and DBC(surr)
1 ppm CVS / LCS Injection volume = 1.0 ul
==========

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
10	6.817	2,4,5,6-TCMX	4020888.25	0.0905	0.0905
14	7.996	ALPHA-BHC	4572.73	~~0.0001~~	0.0001
17	8.573	GAMMA-BHC (LINDANE)	5349.26	~~0.0001~~	0.0001
18	8.790	BETA-BHC	13634.18	~~0.0006~~	0.0006
20	9.091	DELTA-BHC	12091.73	~~0.0002~~	0.0002
25	9.451	HEPTACHLOR	10205.10	0.0002	0.0002
29	10.023	ALDRIN	4702.35	~~0.0001~~	0.0001
0	10.509	ISODRIN	0.00	0.0000	0.0000
35	10.936	HEPTACHLOR EPOXIDE	110324.05	~~0.0020~~	0.0020
37	11.119	chlordane gamma	63402.69	0.0011	0.0011
41	11.368	chlordane alpha	7884.80	~~0.0001~~	0.0001
42	11.454	4,4'-DDE	7194841.77	0.1372	0.1372
0	11.556	ENDOSULFAN I	0.00	0.0000	0.0000
45	11.878	DIELDRIN	149903.99	0.0028	0.0028
49	12.288	ENDRIN	91370.07	0.0020	0.0020
50	12.348	4,4'-DDD	1161948.25	~~0.0290~~	0.0290
55	12.633	ENDOSULFAN II	36374.00	~~0.0008~~	0.0008
57	12.753	4,4'-DDT	7321107.07	0.1758	0.1758
63	13.196	ENDRIN ALDEHYDE	8269.32	~~0.0003~~	0.0003

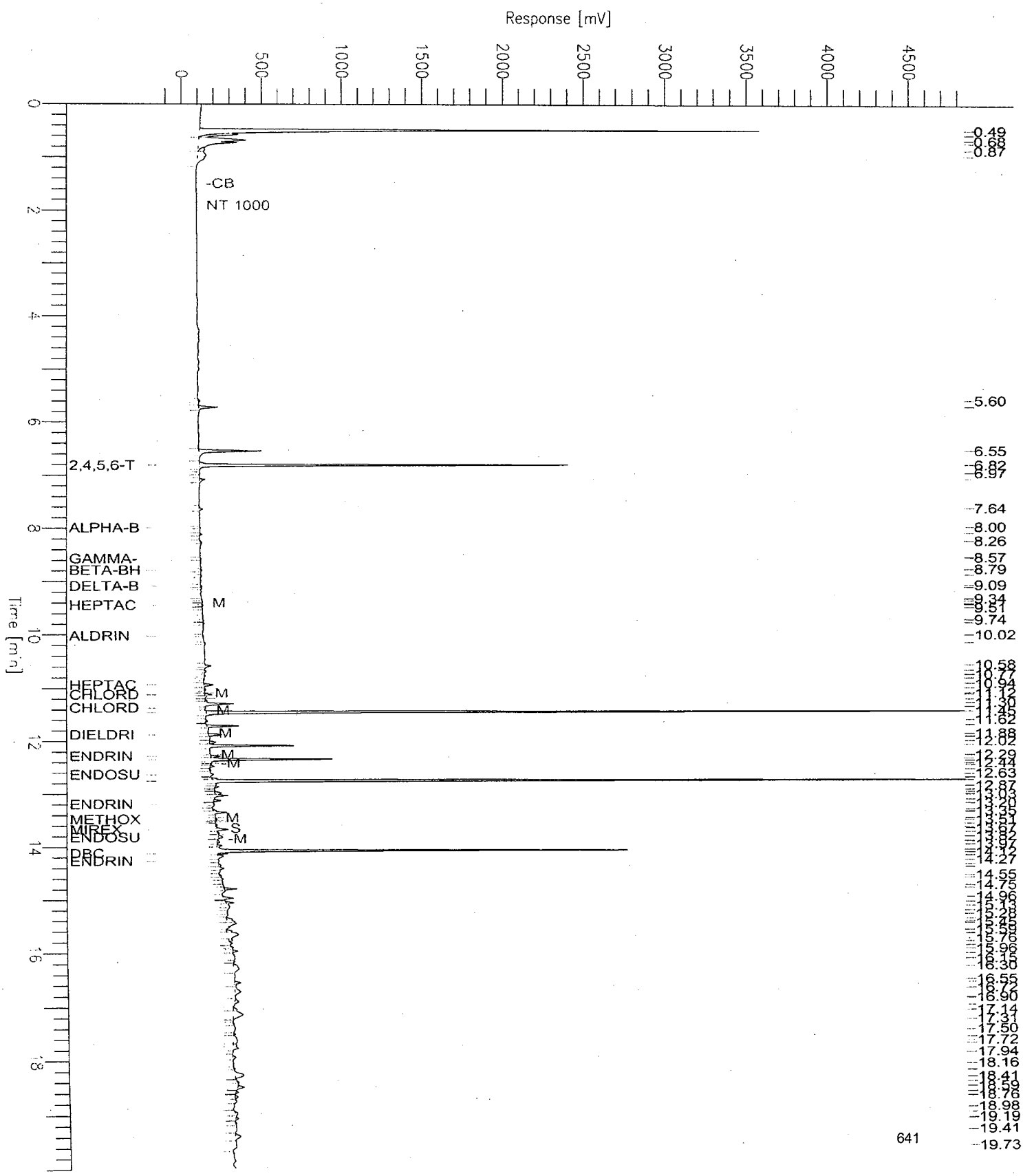
Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
66	13.479	METHOXYCHLOR	18709.16	0.0009	0.0009
70	13.670	mirex	122404.56	0.0071	0.0071
72	13.818	Endosulfan Sulfate	71065.77	0.0019	~~0.0019~~ 0.0005
76	14.121	DBC	86853.10	0.0023	0.0023
78	14.266	ENDRIN KETONE	12880.78	~~0.0003~~	0.0003
0	30.100	Chlordane (Total)	0.00	0.0000	0.0000
0	30.150	Chlordane (Tech)	0.00	0.0000	0.0000
0	30.200	Toxaphene	0.00	0.0000	0.0000
0	30.300	PCB-1016/1242	0.00	0.0000	0.0000
0	30.400	PCB-1221	0.00	0.0000	0.0000
0	30.500	PCB-1232	0.00	0.0000	0.0000
0	30.650	PCB-1248	0.00	0.0000	0.0000
0	30.700	PCB-1254	0.00	0.0000	0.0000
0	30.863	PCB-1260	0.00	0.0000	0.0000
			20528782.99	0.4553	0.4553

Report stored in ASCII file: C:\TC4\HP6890\9lja008.TX0

Chromatogram

Sample Name : b610309-01
FileName : C:\TC4\HP6890\9LJA008.raw
Method : 608-2
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: -1.0 Plot Offset: -155 mV

Sample #: 8 Page 1 of 1
Date : 12/21/06 06:18 PM
Time of Injection: 12/15/06 08:43 PM
Low Point : -154.52 mV High Point : 4845.48 mV
Plot Scale: 5000.0 mV



641

Software Version: 4.1<1L22>
Sample Name : b610309-01 Time : 12/17/06 04:21 PM
Sample Number: 8 Study : 8081 s
Operator : jbh

Instrument : JSVGCECD2 Channel : B A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 4207271739 Data Acquisition Time: 12/15/06 08:43 PM
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 4.1660 pts/sec

Raw Data File : C:\TC4\HP6890\9LJB008.RAW
Result File : C:\TC4\HP6890\9ljb008.rst
Inst Method : C:\TC4\HP6890\608-2 from C:\TC4\HP6890\9ljb008.rst
Proc Method : C:\TC4\HP6890\8081B9LG from C:\TC4\HP6890\9ljb008.rst
Calib Method : C:\TC4\HP6890\8081B9LG from C:\TC4\HP6890\9ljb008.rst
Sequence File : C:\TC4\METHODS\9LJ.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Environmental Conservation Laboratories

==========
Secondary COLUMN (DETECTOR B) STX-Clpesticide2 30M .32id .25DF
EPA 8081 Analysis Curve 0.005ug/L --> 0.2ug/L (8081b9lg on 12/12/06)
1 ppm TCMX(surr) and DBC(surr)
1 ppm CVS / LCS Injection volume = 1.0 ul
==========

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
13	6.536	2,4,5,6-TCMX [2c]	4372621.34	0.0896	0.0896
0	7.838	ALPHA-BHC [2c]	0.00	0.0000	0.0000
0	8.498	GAMMA-BHC (LINDANE) [2c]	0.00	0.0000	0.0000
0	8.687	BETA-BHC [2c]	0.00	0.0000	0.0000
0	9.180	DELTA-BHC [2c]	0.00	0.0000	0.0000
21	9.217	HEPTACHLOR [2c]	10540.09	0.0002	0.0002
0	9.760	ALDRIN [2c]	0.00	0.0000	0.0000
0	10.388	ISODRIN [2c]	0.00	0.0000	0.0000
33	10.679	HEPTACHLOR EPOXIDE [2c]	21227.56	~~0.0004~~	0.0004
35	10.977	chlordane gamma [2c]	60369.66	0.0011	0.0011
38	11.165	chlordane alpha [2c]	55660.11	0.0010	0.0010
39	11.253	ENDOSULFAN I [2c]	13417.48	0.0003	0.0003
41	11.449	4,4'-DDE [2c]	7411046.56	0.1387	0.1387
44	11.692	DIELDRIN [2c]	10256.84	0.0002	0.0002
52	12.136	ENDRIN [2c]	19762.29	0.0004	0.0004
55	12.298	4,4'-DDD [2c]	1240081.87	0.0298	0.0298
56	12.463	ENDOSULFAN II [2c]	44018.55	~~0.0010~~	0.0010
60	12.745	4,4'-DDT [2c]	7317526.47	0.1749	0.1749
62	12.966	ENDRIN ALDEHYDE [2c]	56027.37	~~0.0017~~	0.0017

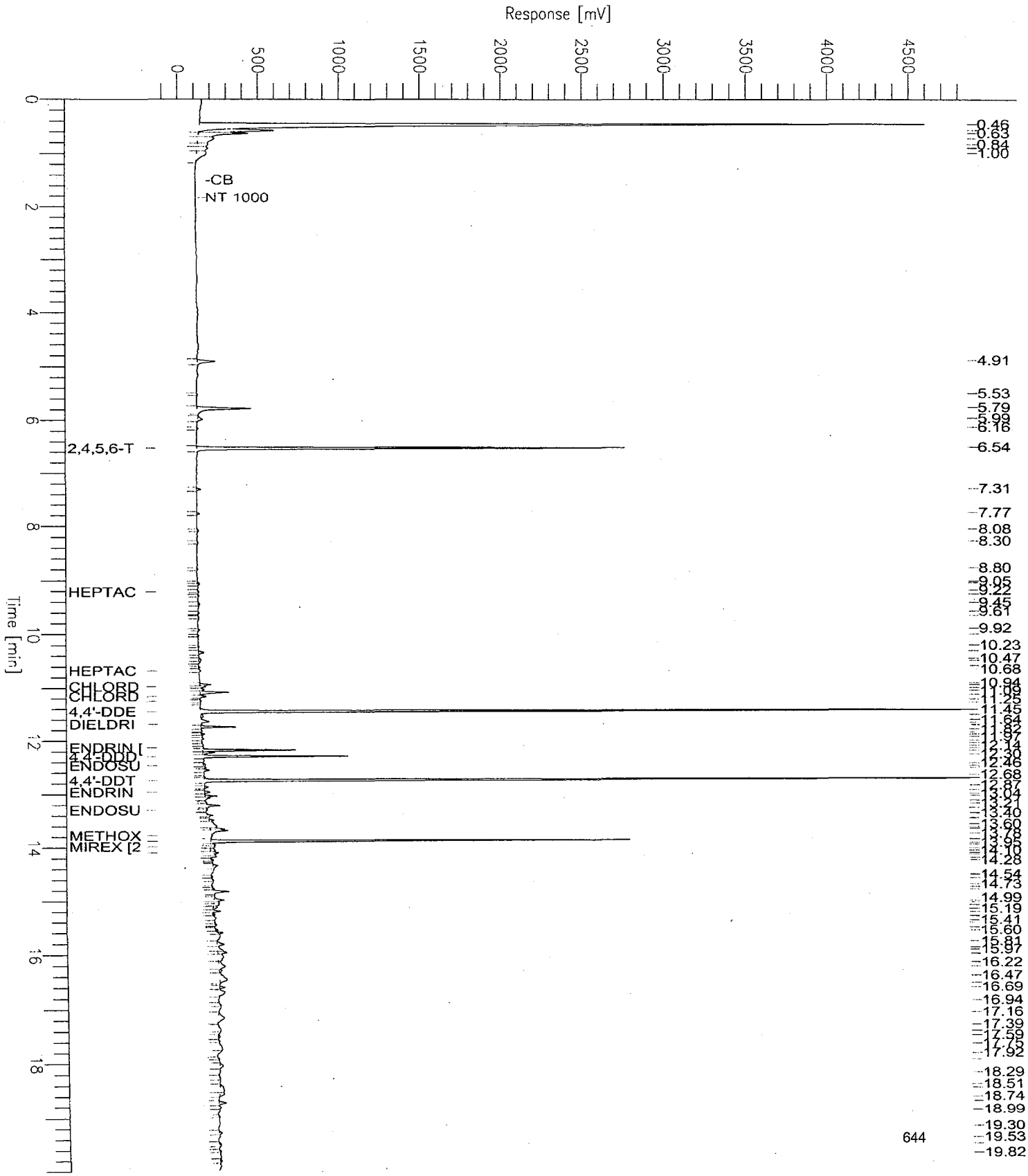
Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
67	13.297	ENDOSULFAN SULFATE [2c]	11811.09	0.0003	0.0003
73	13.779	METHOXYCHLOR [2c]	14167.07	0.0007	0.0007
74	13.884	DBC [2c]	3695505.08	0.0963	0.0963
76	13.985	MIREX [2c]	57743.05	0.0033	0.0033
78	14.100	ENDRIN KETONE [2c]	93273.33	0.0020 M.DL	0.0020
0	30.100	Chlordane (Total) [2c]	0.00	0.0000	0.0000
0	30.150	Chlordane (Tech) [2c]	0.00	0.0000	0.0000
0	30.200	Toxaphene [2c]	0.00	0.0000	0.0000
0	30.250	PCB-1016 [2c]	0.00	0.0000	0.0000
0	30.300	PCB-1016/1242 [2c]	0.00	0.0000	0.0000
0	30.400	PCB-1221 [2c]	0.00	0.0000	0.0000
0	30.500	PCB-1232 [2c]	0.00	0.0000	0.0000
0	30.650	PCB-1248 [2c]	0.00	0.0000	0.0000
0	30.700	PCB-1254 [2c]	0.00	0.0000	0.0000
0	30.863	PCB-1260 [2c]	0.00	0.0000	0.0000
			24505055.79	0.5417	0.5417

Report stored in ASCII file: C:\TC4\HP6890\9ljb008.TX0

Chromatogram

Sample Name : b610309-01
FileName : C:\TC4\HP6890\9LJB008.raw
Method : 608-2
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: -1.0 Plot Offset: -139 mV

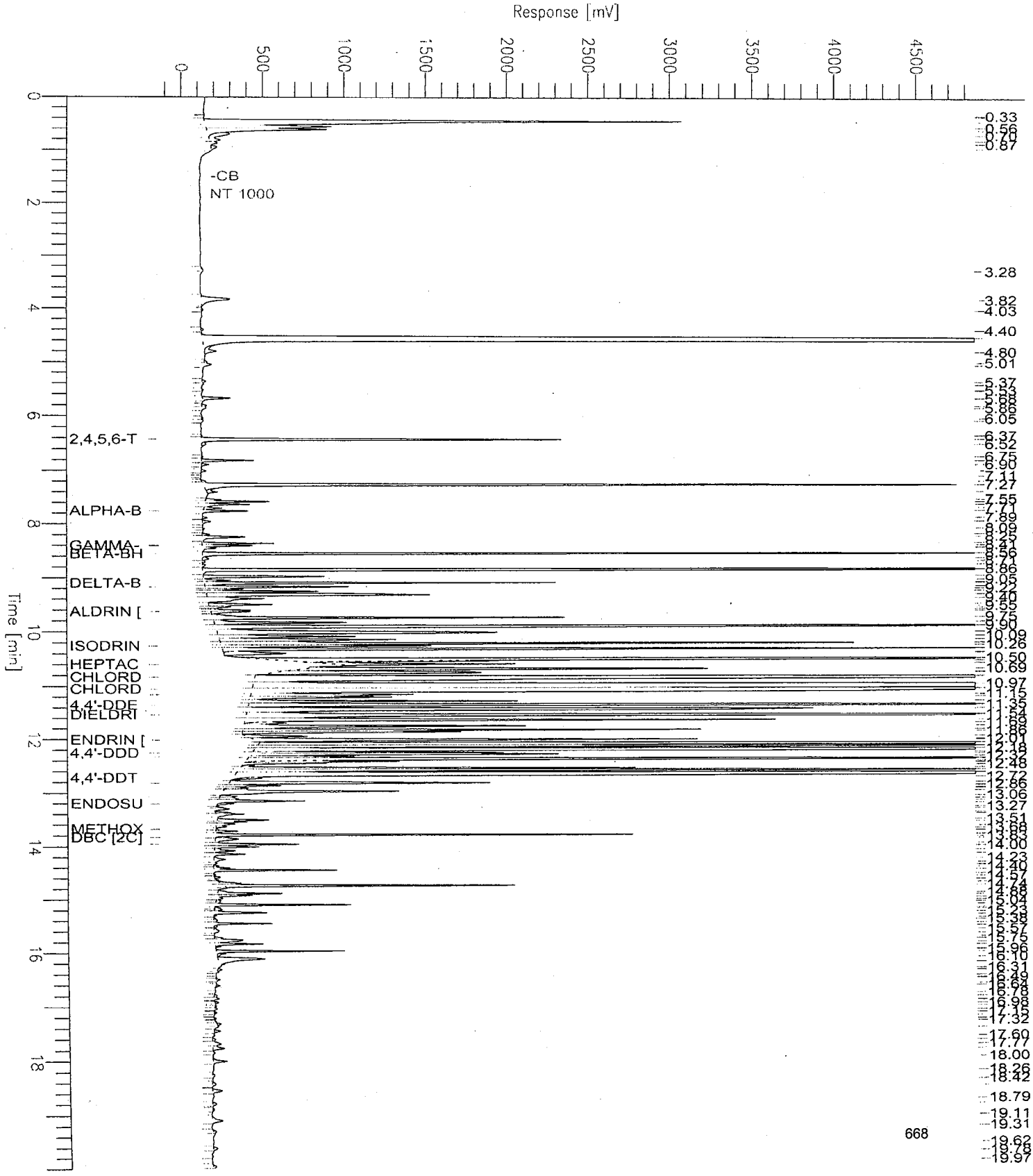
Sample #: 8 Page 1 of 1
Date : 12/17/06 04:21 PM
Time of Injection: 12/15/06 08:43 PM
Low Point : -138.65 mV High Point : 4861.35 mV
Plot Scale: 5000.0 mV



Chromatogram

Sample Name : b610372-01 @rr
FileName : C:\TC4\HP6890\9LQB045.raw
Method : 608-2
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: -1.0 Plot Offset: -134 mV

Sample #: 45 Page 1 of 1
Date : 12/23/06 10:30 AM
Time of Injection: 12/23/06 07:37 AM
Low Point : -133.59 mV High Point : 4866.41 mV
Plot Scale: 5000.0 mV



CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHA036-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/14/06
Lab Sample ID:	BA00091-CCV1	Injection Time:	03:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0997	7.280474E+07	7.25731E+07		-0.3	20
gamma-BHC	A	0.100	0.0989	6.465721E+07	6.39284E+07		-1.1	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.36606E+07		1.9	20
delta-BHC	A	0.100	0.103	5.66961E+07	5.86276E+07		3.4	20
Heptachlor	A	0.100	0.0924	6.414063E+07	5.92846E+07		-7.6	20
Aldrin	A	0.100	0.0954	6.149162E+07	5.8642E+07		-4.6	20
Heptachlor epoxide	A	0.100	0.0918	5.405995E+07	4.9626E+07		-8.2	20
Chlordane-gamma	A	0.100	0.0944	5.527518E+07	5.21831E+07		-5.6	20
Chlordane-alpha	A	0.100	0.0935	5.296272E+07	4.95238E+07		-6.5	20
4,4′-DDE	A	0.100	0.0932	5.244698E+07	4.88808E+07		-6.8	20
Endosulfan I	A	0.100	0.0926	4.972951E+07	4.60694E+07		-7.4	20
Dieldrin	A	0.100	0.0932	5.436507E+07	5.06843E+07		-6.8	20
Endrin	A	0.100	0.0965	4.627937E+07	4.46704E+07		-3.5	20
4,4′-DDD	A	0.100	0.0944	4.00135E+07	3.77583E+07		-5.6	20
Endosulfan II	A	0.100	0.0932	4.442927E+07	4.1405E+07		-6.8	20
4,4′-DDT	A	0.100	0.0892	4.164772E+07	3.71382E+07		-10.8	20
Endrin aldehyde	A	0.100	0.0968	3.13612E+07	3.0361E+07		-3.2	20
Methoxychlor	A	0.100	0.0845	2.117353E+07	1.78814E+07		-15.5	20
Endosulfan sulfate	A	0.100	0.0992	3.673694E+07	3.64528E+07		-0.8	20
Endrin ketone	A	0.100	0.0938	4.568736E+07	4.28452E+07		-6.2	20
alpha-BHC [2C]	A	0.100	0.104	7.552835E+07	7.81735E+07		3.5	20
gamma-BHC [2C]	A	0.100	0.103	6.719113E+07	6.93831E+07		3.3	20
beta-BHC [2C]	A	0.100	0.107	2.472905E+07	2.64845E+07		7.1	20
delta-BHC [2C]	A	0.100	0.107	5.850208E+07	6.28348E+07		7.4	20
Heptachlor [2C]	A	0.100	0.0980	6.67268E+07	6.54022E+07		-2.0	20
Aldrin [2C]	A	0.100	0.100	6.357242E+07	6.35658E+07		-0.01	20
Heptachlor epoxide [2C]	A	0.100	0.0968	5.626251E+07	5.44535E+07		-3.2	20
Chlordane-gamma [2C]	A	0.100	0.100	5.722595E+07	5.72475E+07		0.04	20
Chlordane-alpha [2C]	A	0.100	0.0986	5.472749E+07	5.39515E+07		-1.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHB036-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/14/06
Lab Sample ID:	BA00091-CCV1	Injection Time:	03:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0999	5.341989E+07	5.33671E+07		-0.1	20
Endosulfan I [2C]	A	0.100	0.0977	5.087841E+07	4.97175E+07		-2.3	20
Dieldrin [2C]	A	0.100	0.0984	5.608619E+07	5.52145E+07		-1.6	20
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.71048E+07		2.3	20
4,4'-DDD [2C]	A	0.100	0.100	4.157866E+07	4.16996E+07		0.3	20
Endosulfan II [2C]	A	0.100	0.0986	4.58875E+07	4.52604E+07		-1.4	20
4,4'-DDT [2C]	A	0.100	0.0933	4.184652E+07	3.90577E+07		-6.7	20
Endrin aldehyde [2C]	A	0.100	0.103	3.232817E+07	3.31924E+07		2.7	20
Methoxychlor [2C]	A	0.100	0.0864	2.018515E+07	1.74422E+07		-13.6	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.836149E+07	4.00191E+07		4.3	20
Endrin ketone [2C]	A	0.100	0.0976	4.596086E+07	4.48756E+07		-2.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHA047-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/14/06
Lab Sample ID:	BA00091-CCV2	Injection Time:	08:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0957	7.280474E+07	6.96897E+07		-4.3	20
gamma-BHC	A	0.100	0.0956	6.465721E+07	6.17981E+07		-4.4	20
beta-BHC	A	0.100	0.0992	2.323065E+07	2.30449E+07		-0.8	20
delta-BHC	A	0.100	0.0998	5.66961E+07	5.65558E+07		-0.2	20
Heptachlor	A	0.100	0.0895	6.414063E+07	5.74076E+07		-10.5	20
Aldrin	A	0.100	0.0915	6.149162E+07	5.62523E+07		-8.5	20
Heptachlor epoxide	A	0.100	0.0886	5.405995E+07	4.79067E+07		-11.4	20
Chlordane-gamma	A	0.100	0.0903	5.527518E+07	4.98936E+07		-9.7	20
Chlordane-alpha	A	0.100	0.0890	5.296272E+07	4.7128E+07		-11.0	20
4,4′-DDE	A	0.100	0.0908	5.244698E+07	4.7621E+07		-9.2	20
Endosulfan I	A	0.100	0.0883	4.972951E+07	4.39192E+07		-11.7	20
Dieldrin	A	0.100	0.0897	5.436507E+07	4.87713E+07		-10.3	20
Endrin	A	0.100	0.0940	4.627937E+07	4.34888E+07		-6.0	20
4,4′-DDD	A	0.100	0.0943	4.00135E+07	3.77479E+07		-5.7	20
Endosulfan II	A	0.100	0.0891	4.442927E+07	3.96044E+07		-10.9	20
4,4′-DDT	A	0.100	0.0815	4.164772E+07	3.39422E+07		-18.5	20
Endrin aldehyde	A	0.100	0.0927	3.13612E+07	2.9067E+07		-7.3	20
Methoxychlor	A	0.100	0.0810	2.117353E+07	1.71416E+07		-19.0	20
Endosulfan sulfate	A	0.100	0.0942	3.673694E+07	3.45997E+07		-5.8	20
Endrin ketone	A	0.100	0.0906	4.568736E+07	4.14057E+07		-9.4	20
alpha-BHC [2C]	A	0.100	0.101	7.552835E+07	7.60099E+07		0.6	20
gamma-BHC [2C]	A	0.100	0.101	6.719113E+07	6.75951E+07		0.6	20
beta-BHC [2C]	A	0.100	0.105	2.472905E+07	2.59319E+07		4.9	20
delta-BHC [2C]	A	0.100	0.104	5.850208E+07	6.08291E+07		4.0	20
Heptachlor [2C]	A	0.100	0.0947	6.67268E+07	6.32E+07		-5.3	20
Aldrin [2C]	A	0.100	0.0963	6.357242E+07	6.12423E+07		-3.7	20
Heptachlor epoxide [2C]	A	0.100	0.0928	5.626251E+07	5.22329E+07		-7.2	20
Chlordane-gamma [2C]	A	0.100	0.0947	5.722595E+07	5.41949E+07		-5.3	20
Chlordane-alpha [2C]	A	0.100	0.0932	5.472749E+07	5.09935E+07		-6.8	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHB047-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/14/06
Lab Sample ID:	BA00091-CCV2	Injection Time:	08:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0955	5.341989E+07	5.10039E+07		-4.5	20
Endosulfan I [2C]	A	0.100	0.0929	5.087841E+07	4.72814E+07		-7.1	20
Dieldrin [2C]	A	0.100	0.0938	5.608619E+07	5.25997E+07		-6.2	20
Endrin [2C]	A	0.100	0.0998	4.605028E+07	4.59378E+07		-0.2	20
4,4'-DDD [2C]	A	0.100	0.0997	4.157866E+07	4.14596E+07		-0.3	20
Endosulfan II [2C]	A	0.100	0.0943	4.58875E+07	4.32719E+07		-5.7	20
4,4'-DDT [2C]	A	0.100	0.0862	4.184652E+07	3.60857E+07		-13.8	20
Endrin aldehyde [2C]	A	0.100	0.0971	3.232817E+07	3.13889E+07		-2.9	20
Methoxychlor [2C]	A	0.100	0.0847	2.018515E+07	1.70995E+07		-15.3	20
Endosulfan sulfate [2C]	A	0.100	0.0981	3.836149E+07	3.7614E+07		-1.9	20
Endrin ketone [2C]	A	0.100	0.0939	4.596086E+07	4.3144E+07		-6.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA044-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCV5	Injection Time:	07:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.113	7.280474E+07	8.21037E+07		12.8	20
gamma-BHC	A	0.100	0.113	6.465721E+07	7.32221E+07		13.2	20
beta-BHC	A	0.100	0.116	2.323065E+07	2.69519E+07		16.0	20
delta-BHC	A	0.100	0.117	5.66961E+07	6.62511E+07		16.9	20
Heptachlor	A	0.100	0.105	6.414063E+07	6.72047E+07		4.8	20
Aldrin	A	0.100	0.108	6.149162E+07	6.61927E+07		7.6	20
Heptachlor epoxide	A	0.100	0.104	5.405995E+07	5.61815E+07		3.9	20
Chlordane-gamma	A	0.100	0.108	5.527518E+07	5.95131E+07		7.7	20
Chlordane-alpha	A	0.100	0.107	5.296272E+07	5.68158E+07		7.3	20
4,4′-DDE	A	0.100	0.106	5.244698E+07	5.53277E+07		5.5	20
Endosulfan I	A	0.100	0.106	4.972951E+07	5.27765E+07		6.1	20
Dieldrin	A	0.100	0.105	5.436507E+07	5.72355E+07		5.3	20
Endrin	A	0.100	0.110	4.627937E+07	5.08896E+07		10.0	20
4,4′-DDD	A	0.100	0.109	4.00135E+07	4.34756E+07		8.7	20
Endosulfan II	A	0.100	0.105	4.442927E+07	4.68499E+07		5.4	20
4,4′-DDT	A	0.100	0.105	4.164772E+07	4.38687E+07		5.3	20
Endrin aldehyde	A	0.100	0.102	3.13612E+07	3.21093E+07		2.4	20
Methoxychlor	A	0.100	0.0964	2.117353E+07	2.04102E+07		-3.6	20
Endosulfan sulfate	A	0.100	0.111	3.673694E+07	4.08327E+07		11.1	20
Endrin ketone	A	0.100	0.106	4.568736E+07	4.83048E+07		5.7	20
alpha-BHC [2C]	A	0.100	0.114	7.552835E+07	8.57119E+07		13.5	20
gamma-BHC [2C]	A	0.100	0.113	6.719113E+07	7.5817E+07		12.8	20
beta-BHC [2C]	A	0.100	0.119	2.472905E+07	2.93619E+07		18.7	20
delta-BHC [2C]	A	0.100	0.119	5.850208E+07	6.96594E+07		19.1	20
Heptachlor [2C]	A	0.100	0.110	6.67268E+07	7.35143E+07		10.2	20
Aldrin [2C]	A	0.100	0.110	6.357242E+07	7.00303E+07		10.2	20
Heptachlor epoxide [2C]	A	0.100	0.107	5.626251E+07	6.01009E+07		6.8	20
Chlordane-gamma [2C]	A	0.100	0.111	5.722595E+07	6.36979E+07		11.3	20
Chlordane-alpha [2C]	A	0.100	0.109	5.472749E+07	5.95786E+07		8.9	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB044-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCV5	Injection Time:	07:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.111	5.341989E+07	5.90648E+07		10.6	20
Endosulfan I [2C]	A	0.100	0.108	5.087841E+07	5.49242E+07		8.0	20
Dieldrin [2C]	A	0.100	0.108	5.608619E+07	6.0815E+07		8.4	20
Endrin [2C]	A	0.100	0.112	4.605028E+07	5.17089E+07		12.3	20
4,4'-DDD [2C]	A	0.100	0.111	4.157866E+07	4.62338E+07		11.2	20
Endosulfan II [2C]	A	0.100	0.109	4.58875E+07	4.98262E+07		8.6	20
4,4'-DDT [2C]	A	0.100	0.109	4.184652E+07	4.56321E+07		9.0	20
Endrin aldehyde [2C]	A	0.100	0.106	3.232817E+07	3.41115E+07		5.5	20
Methoxychlor [2C]	A	0.100	0.102	2.018515E+07	2.05803E+07		2.0	20
Endosulfan sulfate [2C]	A	0.100	0.114	3.836149E+07	4.39042E+07		14.4	20
Endrin ketone [2C]	A	0.100	0.108	4.596086E+07	4.9812E+07		8.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA051-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCV6	Injection Time:	10:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.110	7.280474E+07	7.97486E+07		9.5	20	
gamma-BHC	A	0.100	0.107	6.465721E+07	6.92564E+07		7.1	20	
beta-BHC	A	0.100	0.111	2.323065E+07	2.57991E+07		11.1	20	
delta-BHC	A	0.100	0.112	5.66961E+07	6.36647E+07		12.3	20	
Heptachlor	A	0.100	0.0789	6.414063E+07	5.06132E+07		-21.1	20	*
Aldrin	A	0.100	0.0994	6.149162E+07	6.11405E+07		-0.6	20	
Heptachlor epoxide	A	0.100	0.0960	5.405995E+07	5.19027E+07		-4.0	20	
Chlordane-gamma	A	0.100	0.0962	5.527518E+07	5.31743E+07		-3.8	20	
Chlordane-alpha	A	0.100	0.0952	5.296272E+07	5.04085E+07		-4.8	20	
4,4′-DDE	A	0.100	0.0973	5.244698E+07	5.10165E+07		-2.7	20	
Endosulfan I	A	0.100	0.0958	4.972951E+07	4.76163E+07		-4.2	20	
Dieldrin	A	0.100	0.0969	5.436507E+07	5.26713E+07		-3.1	20	
Endrin	A	0.100	0.0784	4.627937E+07	3.63057E+07		-21.6	20	*
4,4′-DDD	A	0.100	0.124	4.00135E+07	4.94918E+07		23.7	20	*
Endosulfan II	A	0.100	0.0954	4.442927E+07	4.23959E+07		-4.6	20	
4,4′-DDT	A	0.100	0.0388	4.164772E+07	1.61589E+07		-61.2	20	*
Endrin aldehyde	A	0.100	0.0786	3.13612E+07	2.46362E+07		-21.4	20	*
Methoxychlor	A	0.100	0.0423	2.117353E+07	8962630		-57.7	20	*
Endosulfan sulfate	A	0.100	0.100	3.673694E+07	3.69003E+07		0.4	20	
Endrin ketone	A	0.100	0.102	4.568736E+07	4.66608E+07		2.1	20	
alpha-BHC [2C]	A	0.100	0.110	7.552835E+07	8.28761E+07		9.7	20	
gamma-BHC [2C]	A	0.100	0.106	6.719113E+07	7.14599E+07		6.4	20	
beta-BHC [2C]	A	0.100	0.113	2.472905E+07	2.79511E+07		13.0	20	
delta-BHC [2C]	A	0.100	0.113	5.850208E+07	6.60756E+07		12.9	20	
Heptachlor [2C]	A	0.100	0.0814	6.67268E+07	5.43358E+07		-18.6	20	
Aldrin [2C]	A	0.100	0.101	6.357242E+07	6.4257E+07		1.1	20	
Heptachlor epoxide [2C]	A	0.100	0.0978	5.626251E+07	5.50183E+07		-2.2	20	
Chlordane-gamma [2C]	A	0.100	0.0987	5.722595E+07	5.64882E+07		-1.3	20	
Chlordane-alpha [2C]	A	0.100	0.0956	5.472749E+07	5.22945E+07		-4.4	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB051-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCV6	Injection Time:	10:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0976	5.341989E+07	5.21547E+07		-2.4	20	
Endosulfan I [2C]	A	0.100	0.0974	5.087841E+07	4.95611E+07		-2.6	20	
Dieldrin [2C]	A	0.100	0.0974	5.608619E+07	5.46497E+07		-2.6	20	
Endrin [2C]	A	0.100	0.0797	4.605028E+07	3.6691E+07		-20.3	20	
4,4'-DDD [2C]	A	0.100	0.123	4.157866E+07	5.11077E+07		22.9	20	*
Endosulfan II [2C]	A	0.100	0.101	4.58875E+07	4.63404E+07		1.0	20	
4,4'-DDT [2C]	A	0.100	0.0390	4.184652E+07	1.63061E+07		-61.0	20	*
Endrin aldehyde [2C]	A	0.100	0.0774	3.232817E+07	2.50225E+07		-22.6	20	*
Methoxychlor [2C]	A	0.100	0.0424	2.018515E+07	8565060		-57.6	20	*
Endosulfan sulfate [2C]	A	0.100	0.0992	3.836149E+07	3.80591E+07		-0.8	20	
Endrin ketone [2C]	A	0.100	0.103	4.596086E+07	4.71615E+07		2.6	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRA003A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCV9	Injection Time:	13:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0929	7.280474E+07	6.76473E+07		-7.1	20
gamma-BHC	A	0.100	0.0944	6.465721E+07	6.10659E+07		-5.6	20
beta-BHC	A	0.100	0.0975	2.323065E+07	2.26572E+07		-2.5	20
delta-BHC	A	0.100	0.0968	5.66961E+07	5.48592E+07		-3.2	20
Heptachlor	A	0.100	0.0910	6.414063E+07	5.83993E+07		-9.0	20
Aldrin	A	0.100	0.0918	6.149162E+07	5.64233E+07		-8.2	20
Heptachlor epoxide	A	0.100	0.0900	5.405995E+07	4.86738E+07		-10.0	20
Chlordane-gamma	A	0.100	0.0903	5.527518E+07	4.98964E+07		-9.7	20
Chlordane-alpha	A	0.100	0.0892	5.296272E+07	4.72233E+07		-10.8	20
4,4′-DDE	A	0.100	0.0889	5.244698E+07	4.66213E+07		-11.1	20
Endosulfan I	A	0.100	0.0890	4.972951E+07	4.42533E+07		-11.0	20
Dieldrin	A	0.100	0.0881	5.436507E+07	4.78706E+07		-11.9	20
Endrin	A	0.100	0.0890	4.627937E+07	4.11886E+07		-11.0	20
4,4′-DDD	A	0.100	0.0915	4.00135E+07	3.66197E+07		-8.5	20
Endosulfan II	A	0.100	0.0895	4.442927E+07	3.97491E+07		-10.5	20
4,4′-DDT	A	0.100	0.0922	4.164772E+07	3.83907E+07		-7.8	20
Endrin aldehyde	A	0.100	0.0973	3.13612E+07	3.05229E+07		-2.7	20
Methoxychlor	A	0.100	0.0864	2.117353E+07	1.82988E+07		-13.6	20
Endosulfan sulfate	A	0.100	0.0941	3.673694E+07	3.45754E+07		-5.9	20
Endrin ketone	A	0.100	0.0920	4.568736E+07	4.20228E+07		-8.0	20
alpha-BHC [2C]	A	0.100	0.0921	7.552835E+07	6.95548E+07		-7.9	20
gamma-BHC [2C]	A	0.100	0.0923	6.719113E+07	6.2017E+07		-7.7	20
beta-BHC [2C]	A	0.100	0.0970	2.472905E+07	2.39814E+07		-3.0	20
delta-BHC [2C]	A	0.100	0.0963	5.850208E+07	5.63273E+07		-3.7	20
Heptachlor [2C]	A	0.100	0.0905	6.67268E+07	6.03802E+07		-9.5	20
Aldrin [2C]	A	0.100	0.0907	6.357242E+07	5.76292E+07		-9.3	20
Heptachlor epoxide [2C]	A	0.100	0.0892	5.626251E+07	5.02077E+07		-10.8	20
Chlordane-gamma [2C]	A	0.100	0.0892	5.722595E+07	5.10474E+07		-10.8	20
Chlordane-alpha [2C]	A	0.100	0.0872	5.472749E+07	4.77284E+07		-12.8	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRB003A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCV9	Injection Time:	13:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0894	5.341989E+07	4.77633E+07		-10.6	20
Endosulfan I [2C]	A	0.100	0.0885	5.087841E+07	4.50497E+07		-11.5	20
Dieldrin [2C]	A	0.100	0.0893	5.608619E+07	5.00891E+07		-10.7	20
Endrin [2C]	A	0.100	0.0888	4.605028E+07	4.08952E+07		-11.2	20
4,4'-DDD [2C]	A	0.100	0.0902	4.157866E+07	3.74931E+07		-9.8	20
Endosulfan II [2C]	A	0.100	0.0895	4.58875E+07	4.10501E+07		-10.5	20
4,4'-DDT [2C]	A	0.100	0.0912	4.184652E+07	3.8158E+07		-8.8	20
Endrin aldehyde [2C]	A	0.100	0.0970	3.232817E+07	3.13603E+07		-3.0	20
Methoxychlor [2C]	A	0.100	0.0861	2.018515E+07	1.73839E+07		-13.9	20
Endosulfan sulfate [2C]	A	0.100	0.0939	3.836149E+07	3.6003E+07		-6.1	20
Endrin ketone [2C]	A	0.100	0.0908	4.596086E+07	4.17156E+07		-9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRA007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVA	Injection Time:	15:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0974	7.280474E+07	7.08887E+07		-2.6	20
gamma-BHC	A	0.100	0.0984	6.465721E+07	6.36334E+07		-1.6	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.36191E+07		1.7	20
delta-BHC	A	0.100	0.102	5.66961E+07	5.79384E+07		2.2	20
Heptachlor	A	0.100	0.0937	6.414063E+07	6.00894E+07		-6.3	20
Aldrin	A	0.100	0.0949	6.149162E+07	5.83374E+07		-5.1	20
Heptachlor epoxide	A	0.100	0.0928	5.405995E+07	5.0181E+07		-7.2	20
Chlordane-gamma	A	0.100	0.0943	5.527518E+07	5.21251E+07		-5.7	20
Chlordane-alpha	A	0.100	0.0932	5.296272E+07	4.93844E+07		-6.8	20
4,4′-DDE	A	0.100	0.0931	5.244698E+07	4.88021E+07		-6.9	20
Endosulfan I	A	0.100	0.0934	4.972951E+07	4.64721E+07		-6.6	20
Dieldrin	A	0.100	0.0927	5.436507E+07	5.04116E+07		-7.3	20
Endrin	A	0.100	0.0934	4.627937E+07	4.3202E+07		-6.6	20
4,4′-DDD	A	0.100	0.0944	4.00135E+07	3.77702E+07		-5.6	20
Endosulfan II	A	0.100	0.0926	4.442927E+07	4.11308E+07		-7.4	20
4,4′-DDT	A	0.100	0.0941	4.164772E+07	3.9193E+07		-5.9	20
Endrin aldehyde	A	0.100	0.0988	3.13612E+07	3.09958E+07		-1.2	20
Methoxychlor	A	0.100	0.0875	2.117353E+07	1.85231E+07		-12.5	20
Endosulfan sulfate	A	0.100	0.0961	3.673694E+07	3.52955E+07		-3.9	20
Endrin ketone	A	0.100	0.0936	4.568736E+07	4.27494E+07		-6.4	20
alpha-BHC [2C]	A	0.100	0.0982	7.552835E+07	7.41461E+07		-1.8	20
gamma-BHC [2C]	A	0.100	0.0981	6.719113E+07	6.59435E+07		-1.9	20
beta-BHC [2C]	A	0.100	0.103	2.472905E+07	2.54543E+07		2.9	20
delta-BHC [2C]	A	0.100	0.103	5.850208E+07	6.00641E+07		2.7	20
Heptachlor [2C]	A	0.100	0.0963	6.67268E+07	6.42558E+07		-3.7	20
Aldrin [2C]	A	0.100	0.0957	6.357242E+07	6.08174E+07		-4.3	20
Heptachlor epoxide [2C]	A	0.100	0.0935	5.626251E+07	5.26154E+07		-6.5	20
Chlordane-gamma [2C]	A	0.100	0.0953	5.722595E+07	5.45447E+07		-4.7	20
Chlordane-alpha [2C]	A	0.100	0.0930	5.472749E+07	5.08989E+07		-7.0	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRB007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVA	Injection Time:	15:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0948	5.341989E+07	5.06575E+07		-5.2	20
Endosulfan I [2C]	A	0.100	0.0935	5.087841E+07	4.758E+07		-6.5	20
Dieldrin [2C]	A	0.100	0.0938	5.608619E+07	5.25894E+07		-6.2	20
Endrin [2C]	A	0.100	0.0933	4.605028E+07	4.29679E+07		-6.7	20
4,4'-DDD [2C]	A	0.100	0.0942	4.157866E+07	3.91592E+07		-5.8	20
Endosulfan II [2C]	A	0.100	0.0932	4.58875E+07	4.27864E+07		-6.8	20
4,4'-DDT [2C]	A	0.100	0.0945	4.184652E+07	3.95436E+07		-5.5	20
Endrin aldehyde [2C]	A	0.100	0.100	3.232817E+07	3.2376E+07		0.1	20
Methoxychlor [2C]	A	0.100	0.0888	2.018515E+07	1.79167E+07		-11.2	20
Endosulfan sulfate [2C]	A	0.100	0.0974	3.836149E+07	3.73794E+07		-2.6	20
Endrin ketone [2C]	A	0.100	0.0930	4.596086E+07	4.2757E+07		-7.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRA018-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVB	Injection Time:	19:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.103	7.280474E+07	7.522E+07		3.3	20
gamma-BHC	A	0.100	0.104	6.465721E+07	6.71219E+07		3.8	20
beta-BHC	A	0.100	0.107	2.323065E+07	2.47873E+07		6.7	20
delta-BHC	A	0.100	0.108	5.66961E+07	6.09749E+07		7.5	20
Heptachlor	A	0.100	0.0979	6.414063E+07	6.28005E+07		-2.1	20
Aldrin	A	0.100	0.0998	6.149162E+07	6.13431E+07		-0.2	20
Heptachlor epoxide	A	0.100	0.0968	5.405995E+07	5.23213E+07		-3.2	20
Chlordane-gamma	A	0.100	0.0987	5.527518E+07	5.45532E+07		-1.3	20
Chlordane-alpha	A	0.100	0.0978	5.296272E+07	5.18046E+07		-2.2	20
4,4′-DDE	A	0.100	0.0969	5.244698E+07	5.08018E+07		-3.1	20
Endosulfan I	A	0.100	0.0979	4.972951E+07	4.86756E+07		-2.1	20
Dieldrin	A	0.100	0.0974	5.436507E+07	5.29543E+07		-2.6	20
Endrin	A	0.100	0.101	4.627937E+07	4.68539E+07		1.2	20
4,4′-DDD	A	0.100	0.0988	4.00135E+07	3.95481E+07		-1.2	20
Endosulfan II	A	0.100	0.0979	4.442927E+07	4.34836E+07		-2.1	20
4,4′-DDT	A	0.100	0.0987	4.164772E+07	4.11004E+07		-1.3	20
Endrin aldehyde	A	0.100	0.103	3.13612E+07	3.21647E+07		2.6	20
Methoxychlor	A	0.100	0.0906	2.117353E+07	1.91921E+07		-9.4	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.73407E+07		1.6	20
Endrin ketone	A	0.100	0.0972	4.568736E+07	4.43863E+07		-2.8	20
alpha-BHC [2C]	A	0.100	0.104	7.552835E+07	7.8712E+07		4.2	20
gamma-BHC [2C]	A	0.100	0.104	6.719113E+07	7.00462E+07		4.2	20
beta-BHC [2C]	A	0.100	0.109	2.472905E+07	2.70327E+07		9.3	20
delta-BHC [2C]	A	0.100	0.109	5.850208E+07	6.35978E+07		8.7	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.80629E+07		2.0	20
Aldrin [2C]	A	0.100	0.101	6.357242E+07	6.43039E+07		1.2	20
Heptachlor epoxide [2C]	A	0.100	0.0983	5.626251E+07	5.52999E+07		-1.7	20
Chlordane-gamma [2C]	A	0.100	0.101	5.722595E+07	5.7733E+07		0.9	20
Chlordane-alpha [2C]	A	0.100	0.0987	5.472749E+07	5.39945E+07		-1.3	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRB018-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVB	Injection Time:	19:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.100	5.341989E+07	5.34958E+07		0.1	20
Endosulfan I [2C]	A	0.100	0.0985	5.087841E+07	5.01219E+07		-1.5	20
Dieldrin [2C]	A	0.100	0.0985	5.608619E+07	5.5254E+07		-1.5	20
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.68819E+07		1.8	20
4,4'-DDD [2C]	A	0.100	0.0995	4.157866E+07	4.13854E+07		-0.5	20
Endosulfan II [2C]	A	0.100	0.0990	4.58875E+07	4.5425E+07		-1.0	20
4,4'-DDT [2C]	A	0.100	0.0981	4.184652E+07	4.10416E+07		-1.9	20
Endrin aldehyde [2C]	A	0.100	0.104	3.232817E+07	3.35636E+07		3.8	20
Methoxychlor [2C]	A	0.100	0.0904	2.018515E+07	1.82516E+07		-9.6	20
Endosulfan sulfate [2C]	A	0.100	0.103	3.836149E+07	3.9582E+07		3.2	20
Endrin ketone [2C]	A	0.100	0.0968	4.596086E+07	4.45032E+07		-3.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRA025-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVC	Injection Time:	22:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.106	7.280474E+07	7.73045E+07		6.2	20
gamma-BHC	A	0.100	0.107	6.465721E+07	6.89082E+07		6.6	20
beta-BHC	A	0.100	0.110	2.323065E+07	2.5533E+07		9.9	20
delta-BHC	A	0.100	0.110	5.66961E+07	6.20728E+07		9.5	20
Heptachlor	A	0.100	0.100	6.414063E+07	6.41657E+07		0.04	20
Aldrin	A	0.100	0.102	6.149162E+07	6.27521E+07		2.0	20
Heptachlor epoxide	A	0.100	0.0990	5.405995E+07	5.35052E+07		-1.0	20
Chlordane-gamma	A	0.100	0.102	5.527518E+07	5.60913E+07		1.5	20
Chlordane-alpha	A	0.100	0.0999	5.296272E+07	5.29358E+07		-0.05	20
4,4′-DDE	A	0.100	0.0989	5.244698E+07	5.18861E+07		-1.1	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.00282E+07		0.6	20
Dieldrin	A	0.100	0.0996	5.436507E+07	5.4144E+07		-0.4	20
Endrin	A	0.100	0.103	4.627937E+07	4.77837E+07		3.3	20
4,4′-DDD	A	0.100	0.102	4.00135E+07	4.07075E+07		1.7	20
Endosulfan II	A	0.100	0.100	4.442927E+07	4.4486E+07		0.1	20
4,4′-DDT	A	0.100	0.0983	4.164772E+07	4.09403E+07		-1.7	20
Endrin aldehyde	A	0.100	0.0971	3.13612E+07	3.04532E+07		-2.9	20
Methoxychlor	A	0.100	0.0905	2.117353E+07	1.9166E+07		-9.5	20
Endosulfan sulfate	A	0.100	0.104	3.673694E+07	3.81242E+07		3.8	20
Endrin ketone	A	0.100	0.0992	4.568736E+07	4.5329E+07		-0.8	20
alpha-BHC [2C]	A	0.100	0.108	7.552835E+07	8.14976E+07		7.9	20
gamma-BHC [2C]	A	0.100	0.108	6.719113E+07	7.26525E+07		8.1	20
beta-BHC [2C]	A	0.100	0.113	2.472905E+07	2.79781E+07		13.1	20
delta-BHC [2C]	A	0.100	0.112	5.850208E+07	6.54624E+07		11.9	20
Heptachlor [2C]	A	0.100	0.106	6.67268E+07	7.04961E+07		5.6	20
Aldrin [2C]	A	0.100	0.105	6.357242E+07	6.66896E+07		4.9	20
Heptachlor epoxide [2C]	A	0.100	0.102	5.626251E+07	5.72822E+07		1.8	20
Chlordane-gamma [2C]	A	0.100	0.105	5.722595E+07	5.99846E+07		4.8	20
Chlordane-alpha [2C]	A	0.100	0.102	5.472749E+07	5.59131E+07		2.2	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LRB025-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/23/06
Lab Sample ID:	BA00091-CCVC	Injection Time:	22:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.104	5.341989E+07	5.56103E+07		4.1	20
Endosulfan I [2C]	A	0.100	0.102	5.087841E+07	5.19614E+07		2.1	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.74622E+07		2.5	20
Endrin [2C]	A	0.100	0.105	4.605028E+07	4.85544E+07		5.4	20
4,4'-DDD [2C]	A	0.100	0.104	4.157866E+07	4.3123E+07		3.7	20
Endosulfan II [2C]	A	0.100	0.102	4.58875E+07	4.69007E+07		2.2	20
4,4'-DDT [2C]	A	0.100	0.0987	4.184652E+07	4.12913E+07		-1.3	20
Endrin aldehyde [2C]	A	0.100	0.100	3.232817E+07	3.24973E+07		0.5	20
Methoxychlor [2C]	A	0.100	0.0923	2.018515E+07	1.86335E+07		-7.7	20
Endosulfan sulfate [2C]	A	0.100	0.107	3.836149E+07	4.10492E+07		7.0	20
Endrin ketone [2C]	A	0.100	0.100	4.596086E+07	4.61361E+07		0.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LUA024-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/26/06
Lab Sample ID:	BA00091-CCVD	Injection Time:	21:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0919	7.280474E+07	6.69107E+07		-8.1	20
gamma-BHC	A	0.100	0.0921	6.465721E+07	5.9567E+07		-7.9	20
beta-BHC	A	0.100	0.0955	2.323065E+07	2.21792E+07		-4.5	20
delta-BHC	A	0.100	0.0968	5.66961E+07	5.48784E+07		-3.2	20
Heptachlor	A	0.100	0.0894	6.414063E+07	5.73336E+07		-10.6	20
Aldrin	A	0.100	0.0899	6.149162E+07	5.52936E+07		-10.1	20
Heptachlor epoxide	A	0.100	0.0880	5.405995E+07	4.75826E+07		-12.0	20
Chlordane-gamma	A	0.100	0.0895	5.527518E+07	4.94522E+07		-10.5	20
Chlordane-alpha	A	0.100	0.0886	5.296272E+07	4.69258E+07		-11.4	20
4,4′-DDE	A	0.100	0.0877	5.244698E+07	4.60163E+07		-12.3	20
Endosulfan I	A	0.100	0.0885	4.972951E+07	4.40121E+07		-11.5	20
Dieldrin	A	0.100	0.0887	5.436507E+07	4.82386E+07		-11.3	20
Endrin	A	0.100	0.0888	4.627937E+07	4.10761E+07		-11.2	20
4,4′-DDD	A	0.100	0.0931	4.00135E+07	3.72443E+07		-6.9	20
Endosulfan II	A	0.100	0.0895	4.442927E+07	3.97777E+07		-10.5	20
4,4′-DDT	A	0.100	0.0902	4.164772E+07	3.75607E+07		-9.8	20
Endrin aldehyde	A	0.100	0.0964	3.13612E+07	3.02182E+07		-3.6	20
Methoxychlor	A	0.100	0.0839	2.117353E+07	1.77561E+07		-16.1	20
Endosulfan sulfate	A	0.100	0.0955	3.673694E+07	3.50947E+07		-4.5	20
Endrin ketone	A	0.100	0.0924	4.568736E+07	4.22358E+07		-7.6	20
alpha-BHC [2C]	A	0.100	0.0900	7.552835E+07	6.79775E+07		-10.0	20
gamma-BHC [2C]	A	0.100	0.0905	6.719113E+07	6.08133E+07		-9.5	20
beta-BHC [2C]	A	0.100	0.0950	2.472905E+07	2.34976E+07		-5.0	20
delta-BHC [2C]	A	0.100	0.0955	5.850208E+07	5.58821E+07		-4.5	20
Heptachlor [2C]	A	0.100	0.0899	6.67268E+07	5.99785E+07		-10.1	20
Aldrin [2C]	A	0.100	0.0890	6.357242E+07	5.65656E+07		-11.0	20
Heptachlor epoxide [2C]	A	0.100	0.0874	5.626251E+07	4.91941E+07		-12.6	20
Chlordane-gamma [2C]	A	0.100	0.0883	5.722595E+07	5.05047E+07		-11.7	20
Chlordane-alpha [2C]	A	0.100	0.0861	5.472749E+07	4.71468E+07		-13.9	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LUB024-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/26/06
Lab Sample ID:	BA00091-CCVD	Injection Time:	21:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0885	5.341989E+07	4.72572E+07		-11.5	20
Endosulfan I [2C]	A	0.100	0.0870	5.087841E+07	4.42417E+07		-13.0	20
Dieldrin [2C]	A	0.100	0.0883	5.608619E+07	4.95414E+07		-11.7	20
Endrin [2C]	A	0.100	0.0876	4.605028E+07	4.03296E+07		-12.4	20
4,4'-DDD [2C]	A	0.100	0.0902	4.157866E+07	3.75063E+07		-9.8	20
Endosulfan II [2C]	A	0.100	0.0885	4.58875E+07	4.05971E+07		-11.5	20
4,4'-DDT [2C]	A	0.100	0.0877	4.184652E+07	3.67095E+07		-12.3	20
Endrin aldehyde [2C]	A	0.100	0.0966	3.232817E+07	3.12175E+07		-3.4	20
Methoxychlor [2C]	A	0.100	0.0830	2.018515E+07	1.67515E+07		-17.0	20
Endosulfan sulfate [2C]	A	0.100	0.0946	3.836149E+07	3.62829E+07		-5.4	20
Endrin ketone [2C]	A	0.100	0.0862	4.596086E+07	3.96237E+07		-13.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LUA029-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVE	Injection Time:	00:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.101	7.280474E+07	7.32477E+07		0.6	20
gamma-BHC	A	0.100	0.101	6.465721E+07	6.51902E+07		0.8	20
beta-BHC	A	0.100	0.104	2.323065E+07	2.4233E+07		4.3	20
delta-BHC	A	0.100	0.106	5.66961E+07	5.98041E+07		5.5	20
Heptachlor	A	0.100	0.0956	6.414063E+07	6.13235E+07		-4.4	20
Aldrin	A	0.100	0.0973	6.149162E+07	5.98098E+07		-2.7	20
Heptachlor epoxide	A	0.100	0.0943	5.405995E+07	5.09756E+07		-5.7	20
Chlordane-gamma	A	0.100	0.0970	5.527518E+07	5.36212E+07		-3.0	20
Chlordane-alpha	A	0.100	0.0962	5.296272E+07	5.09367E+07		-3.8	20
4,4′-DDE	A	0.100	0.0945	5.244698E+07	4.95661E+07		-5.5	20
Endosulfan I	A	0.100	0.0962	4.972951E+07	4.78404E+07		-3.8	20
Dieldrin	A	0.100	0.0946	5.436507E+07	5.14511E+07		-5.4	20
Endrin	A	0.100	0.0950	4.627937E+07	4.39779E+07		-5.0	20
4,4′-DDD	A	0.100	0.0976	4.00135E+07	3.90724E+07		-2.4	20
Endosulfan II	A	0.100	0.0950	4.442927E+07	4.21994E+07		-5.0	20
4,4′-DDT	A	0.100	0.0948	4.164772E+07	3.94994E+07		-5.2	20
Endrin aldehyde	A	0.100	0.102	3.13612E+07	3.18251E+07		1.5	20
Methoxychlor	A	0.100	0.0864	2.117353E+07	1.82908E+07		-13.6	20
Endosulfan sulfate	A	0.100	0.0999	3.673694E+07	3.67082E+07		-0.08	20
Endrin ketone	A	0.100	0.0960	4.568736E+07	4.38752E+07		-4.0	20
alpha-BHC [2C]	A	0.100	0.0996	7.552835E+07	7.52457E+07		-0.4	20
gamma-BHC [2C]	A	0.100	0.0995	6.719113E+07	6.68526E+07		-0.5	20
beta-BHC [2C]	A	0.100	0.104	2.472905E+07	2.57327E+07		4.1	20
delta-BHC [2C]	A	0.100	0.106	5.850208E+07	6.17454E+07		5.5	20
Heptachlor [2C]	A	0.100	0.0971	6.67268E+07	6.4811E+07		-2.9	20
Aldrin [2C]	A	0.100	0.0972	6.357242E+07	6.17693E+07		-2.8	20
Heptachlor epoxide [2C]	A	0.100	0.0947	5.626251E+07	5.32778E+07		-5.3	20
Chlordane-gamma [2C]	A	0.100	0.0974	5.722595E+07	5.5738E+07		-2.6	20
Chlordane-alpha [2C]	A	0.100	0.0953	5.472749E+07	5.21637E+07		-4.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LUB029-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVE	Injection Time:	00:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0970	5.341989E+07	5.18262E+07		-3.0	20
Endosulfan I [2C]	A	0.100	0.0952	5.087841E+07	4.84279E+07		-4.8	20
Dieldrin [2C]	A	0.100	0.0959	5.608619E+07	5.37916E+07		-4.1	20
Endrin [2C]	A	0.100	0.0954	4.605028E+07	4.39444E+07		-4.6	20
4,4'-DDD [2C]	A	0.100	0.0973	4.157866E+07	4.0438E+07		-2.7	20
Endosulfan II [2C]	A	0.100	0.0957	4.58875E+07	4.39114E+07		-4.3	20
4,4'-DDT [2C]	A	0.100	0.0947	4.184652E+07	3.96482E+07		-5.3	20
Endrin aldehyde [2C]	A	0.100	0.104	3.232817E+07	3.34608E+07		3.5	20
Methoxychlor [2C]	A	0.100	0.0881	2.018515E+07	1.77917E+07		-11.9	20
Endosulfan sulfate [2C]	A	0.100	0.101	3.836149E+07	3.88127E+07		1.2	20
Endrin ketone [2C]	A	0.100	0.0963	4.596086E+07	4.42523E+07		-3.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVF	Injection Time:	10:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0997	7.280474E+07	7.25924E+07		-0.3	20	
gamma-BHC	A	0.100	0.0990	6.465721E+07	6.40398E+07		-1.0	20	
beta-BHC	A	0.100	0.103	2.323065E+07	2.39071E+07		2.9	20	
delta-BHC	A	0.100	0.103	5.66961E+07	5.82865E+07		2.8	20	
Heptachlor	A	0.100	0.0914	6.414063E+07	5.86379E+07		-8.6	20	
Aldrin	A	0.100	0.0948	6.149162E+07	5.8295E+07		-5.2	20	
Heptachlor epoxide	A	0.100	0.0910	5.405995E+07	4.92063E+07		-9.0	20	
Chlordane-gamma	A	0.100	0.0931	5.527518E+07	5.1484E+07		-6.9	20	
Chlordane-alpha	A	0.100	0.0916	5.296272E+07	4.85115E+07		-8.4	20	
4,4′-DDE	A	0.100	0.0922	5.244698E+07	4.83367E+07		-7.8	20	
Endosulfan I	A	0.100	0.0915	4.972951E+07	4.55168E+07		-8.5	20	
Dieldrin	A	0.100	0.0907	5.436507E+07	4.93325E+07		-9.3	20	
Endrin	A	0.100	0.0942	4.627937E+07	4.36153E+07		-5.8	20	
4,4′-DDD	A	0.100	0.102	4.00135E+07	4.06726E+07		1.6	20	
Endosulfan II	A	0.100	0.0913	4.442927E+07	4.05583E+07		-8.7	20	
4,4′-DDT	A	0.100	0.0777	4.164772E+07	3.23503E+07		-22.3	20	*
Endrin aldehyde	A	0.100	0.0904	3.13612E+07	2.83407E+07		-9.6	20	
Methoxychlor	A	0.100	0.0757	2.117353E+07	1.60359E+07		-24.3	20	*
Endosulfan sulfate	A	0.100	0.0931	3.673694E+07	3.41958E+07		-6.9	20	
Endrin ketone	A	0.100	0.0898	4.568736E+07	4.1011E+07		-10.2	20	
alpha-BHC [2C]	A	0.100	0.0979	7.552835E+07	7.39392E+07		-2.1	20	
gamma-BHC [2C]	A	0.100	0.0973	6.719113E+07	6.53996E+07		-2.7	20	
beta-BHC [2C]	A	0.100	0.103	2.472905E+07	2.54112E+07		2.8	20	
delta-BHC [2C]	A	0.100	0.101	5.850208E+07	5.92388E+07		1.3	20	
Heptachlor [2C]	A	0.100	0.0918	6.67268E+07	6.1281E+07		-8.2	20	
Aldrin [2C]	A	0.100	0.0947	6.357242E+07	6.01756E+07		-5.3	20	
Heptachlor epoxide [2C]	A	0.100	0.0911	5.626251E+07	5.12632E+07		-8.9	20	
Chlordane-gamma [2C]	A	0.100	0.0940	5.722595E+07	5.38033E+07		-6.0	20	
Chlordane-alpha [2C]	A	0.100	0.0914	5.472749E+07	5.00337E+07		-8.6	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVF	Injection Time:	10:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0934	5.341989E+07	4.98687E+07		-6.6	20	
Endosulfan I [2C]	A	0.100	0.0911	5.087841E+07	4.63457E+07		-8.9	20	
Dieldrin [2C]	A	0.100	0.0916	5.608619E+07	5.13501E+07		-8.4	20	
Endrin [2C]	A	0.100	0.0941	4.605028E+07	4.3312E+07		-5.9	20	
4,4'-DDD [2C]	A	0.100	0.101	4.157866E+07	4.1829E+07		0.6	20	
Endosulfan II [2C]	A	0.100	0.0917	4.58875E+07	4.20639E+07		-8.3	20	
4,4'-DDT [2C]	A	0.100	0.0773	4.184652E+07	3.23426E+07		-22.7	20	*
Endrin aldehyde [2C]	A	0.100	0.0908	3.232817E+07	2.93511E+07		-9.2	20	
Methoxychlor [2C]	A	0.100	0.0758	2.018515E+07	1.53025E+07		-24.2	20	*
Endosulfan sulfate [2C]	A	0.100	0.0928	3.836149E+07	3.55966E+07		-7.2	20	
Endrin ketone [2C]	A	0.100	0.0889	4.596086E+07	4.08726E+07		-11.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVG	Injection Time:	15:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0957	7.280474E+07	6.96738E+07		-4.3	20	
gamma-BHC	A	0.100	0.0939	6.465721E+07	6.06855E+07		-6.1	20	
beta-BHC	A	0.100	0.0958	2.323065E+07	2.22573E+07		-4.2	20	
delta-BHC	A	0.100	0.0972	5.66961E+07	5.5136E+07		-2.8	20	
Heptachlor	A	0.100	0.0877	6.414063E+07	5.62688E+07		-12.3	20	
Aldrin	A	0.100	0.0890	6.149162E+07	5.47569E+07		-11.0	20	
Heptachlor epoxide	A	0.100	0.0836	5.405995E+07	4.52067E+07		-16.4	20	
Chlordane-gamma	A	0.100	0.0842	5.527518E+07	4.65632E+07		-15.8	20	
Chlordane-alpha	A	0.100	0.0836	5.296272E+07	4.42932E+07		-16.4	20	
4,4′-DDE	A	0.100	0.0850	5.244698E+07	4.4582E+07		-15.0	20	
Endosulfan I	A	0.100	0.0835	4.972951E+07	4.15456E+07		-16.5	20	
Dieldrin	A	0.100	0.0847	5.436507E+07	4.60582E+07		-15.3	20	
Endrin	A	0.100	0.0901	4.627937E+07	4.16968E+07		-9.9	20	
4,4′-DDD	A	0.100	0.0956	4.00135E+07	3.82668E+07		-4.4	20	
Endosulfan II	A	0.100	0.0835	4.442927E+07	3.70851E+07		-16.5	20	
4,4′-DDT	A	0.100	0.0723	4.164772E+07	3.01195E+07		-27.7	20	*
Endrin aldehyde	A	0.100	0.0814	3.13612E+07	2.55419E+07		-18.6	20	
Methoxychlor	A	0.100	0.0732	2.117353E+07	1.55089E+07		-26.8	20	*
Endosulfan sulfate	A	0.100	0.0903	3.673694E+07	3.31788E+07		-9.7	20	
Endrin ketone	A	0.100	0.0861	4.568736E+07	3.93552E+07		-13.9	20	
alpha-BHC [2C]	A	0.100	0.0962	7.552835E+07	7.26399E+07		-3.8	20	
gamma-BHC [2C]	A	0.100	0.0924	6.719113E+07	6.21022E+07		-7.6	20	
beta-BHC [2C]	A	0.100	0.0952	2.472905E+07	2.35417E+07		-4.8	20	
delta-BHC [2C]	A	0.100	0.0940	5.850208E+07	5.49634E+07		-6.0	20	
Heptachlor [2C]	A	0.100	0.0861	6.67268E+07	5.74366E+07		-13.9	20	
Aldrin [2C]	A	0.100	0.0860	6.357242E+07	5.46993E+07		-14.0	20	
Heptachlor epoxide [2C]	A	0.100	0.0821	5.626251E+07	4.61949E+07		-17.9	20	
Chlordane-gamma [2C]	A	0.100	0.0778	5.722595E+07	4.45063E+07		-22.2	20	*
Chlordane-alpha [2C]	A	0.100	0.0767	5.472749E+07	4.19729E+07		-23.3	20	*

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	12/27/06
Lab Sample ID:	BA00091-CCVG	Injection Time:	15:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0830	5.341989E+07	4.43336E+07		-17.0	20	
Endosulfan I [2C]	A	0.100	0.0787	5.087841E+07	4.00628E+07		-21.3	20	*
Dieldrin [2C]	A	0.100	0.0839	5.608619E+07	4.70617E+07		-16.1	20	
Endrin [2C]	A	0.100	0.0909	4.605028E+07	4.18631E+07		-9.1	20	
4,4'-DDD [2C]	A	0.100	0.0931	4.157866E+07	3.87194E+07		-6.9	20	
Endosulfan II [2C]	A	0.100	0.0838	4.58875E+07	3.84502E+07		-16.2	20	
4,4'-DDT [2C]	A	0.100	0.0732	4.184652E+07	3.0619E+07		-26.8	20	*
Endrin aldehyde [2C]	A	0.100	0.0785	3.232817E+07	2.53709E+07		-21.5	20	*
Methoxychlor [2C]	A	0.100	0.0756	2.018515E+07	1.52558E+07		-24.4	20	*
Endosulfan sulfate [2C]	A	0.100	0.0860	3.836149E+07	3.30051E+07		-14.0	20	
Endrin ketone [2C]	A	0.100	0.0849	4.596086E+07	3.90117E+07		-15.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/15/07
Lab Sample ID:	BA00091-CCVI	Injection Time:	17:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.103	7.280474E+07	7.48486E+07		2.8	20
gamma-BHC	A	0.100	0.103	6.465721E+07	6.6482E+07		2.8	20
beta-BHC	A	0.100	0.104	2.323065E+07	2.40776E+07		3.6	20
delta-BHC	A	0.100	0.105	5.66961E+07	5.95206E+07		5.0	20
Heptachlor	A	0.100	0.0998	6.414063E+07	6.4028E+07		-0.2	20
Aldrin	A	0.100	0.101	6.149162E+07	6.22645E+07		1.3	20
Heptachlor epoxide	A	0.100	0.101	5.405995E+07	5.44996E+07		0.8	20
Chlordane-gamma	A	0.100	0.101	5.527518E+07	5.58963E+07		1.1	20
Chlordane-alpha	A	0.100	0.100	5.296272E+07	5.31183E+07		0.3	20
4,4′-DDE	A	0.100	0.101	5.244698E+07	5.27908E+07		0.7	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.03731E+07		1.3	20
Dieldrin	A	0.100	0.101	5.436507E+07	5.48653E+07		0.9	20
Endrin	A	0.100	0.0977	4.627937E+07	4.52094E+07		-2.3	20
4,4′-DDD	A	0.100	0.106	4.00135E+07	4.22671E+07		5.6	20
Endosulfan II	A	0.100	0.102	4.442927E+07	4.53361E+07		2.0	20
4,4′-DDT	A	0.100	0.102	4.164772E+07	4.25243E+07		2.1	20
Endrin aldehyde	A	0.100	0.112	3.13612E+07	3.52687E+07		12.5	20
Methoxychlor	A	0.100	0.0970	2.117353E+07	2.05362E+07		-3.0	20
Endosulfan sulfate	A	0.100	0.108	3.673694E+07	3.95729E+07		7.7	20
Endrin ketone	A	0.100	0.104	4.568736E+07	4.75972E+07		4.2	20
alpha-BHC [2C]	A	0.100	0.0972	7.552835E+07	7.34488E+07		-2.8	20
gamma-BHC [2C]	A	0.100	0.0968	6.719113E+07	6.50418E+07		-3.2	20
beta-BHC [2C]	A	0.100	0.0990	2.472905E+07	2.44847E+07		-1.0	20
delta-BHC [2C]	A	0.100	0.0988	5.850208E+07	5.78244E+07		-1.2	20
Heptachlor [2C]	A	0.100	0.0972	6.67268E+07	6.48303E+07		-2.8	20
Aldrin [2C]	A	0.100	0.0961	6.357242E+07	6.10751E+07		-3.9	20
Heptachlor epoxide [2C]	A	0.100	0.0956	5.626251E+07	5.3794E+07		-4.4	20
Chlordane-gamma [2C]	A	0.100	0.0959	5.722595E+07	5.48961E+07		-4.1	20
Chlordane-alpha [2C]	A	0.100	0.0947	5.472749E+07	5.18064E+07		-5.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/15/07
Lab Sample ID:	BA00091-CCVI	Injection Time:	17:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0975	5.341989E+07	5.20644E+07		-2.5	20
Endosulfan I [2C]	A	0.100	0.0963	5.087841E+07	4.89886E+07		-3.7	20
Dieldrin [2C]	A	0.100	0.0976	5.608619E+07	5.47306E+07		-2.4	20
Endrin [2C]	A	0.100	0.0943	4.605028E+07	4.34421E+07		-5.7	20
4,4'-DDD [2C]	A	0.100	0.0991	4.157866E+07	4.12019E+07		-0.9	20
Endosulfan II [2C]	A	0.100	0.0982	4.58875E+07	4.50624E+07		-1.8	20
4,4'-DDT [2C]	A	0.100	0.0969	4.184652E+07	4.05507E+07		-3.1	20
Endrin aldehyde [2C]	A	0.100	0.107	3.232817E+07	3.45299E+07		6.8	20
Methoxychlor [2C]	A	0.100	0.0983	2.018515E+07	1.98439E+07		-1.7	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.836149E+07	3.93352E+07		2.5	20
Endrin ketone [2C]	A	0.100	0.101	4.596086E+07	4.64421E+07		1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/15/07
Lab Sample ID:	BA00091-CCVJ	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.107	7.280474E+07	7.78078E+07		6.9	20
gamma-BHC	A	0.100	0.107	6.465721E+07	6.91035E+07		6.9	20
beta-BHC	A	0.100	0.110	2.323065E+07	2.55084E+07		9.8	20
delta-BHC	A	0.100	0.109	5.66961E+07	6.17554E+07		8.9	20
Heptachlor	A	0.100	0.102	6.414063E+07	6.54397E+07		2.0	20
Aldrin	A	0.100	0.104	6.149162E+07	6.38443E+07		3.8	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.50908E+07		1.9	20
Chlordane-gamma	A	0.100	0.104	5.527518E+07	5.75109E+07		4.0	20
Chlordane-alpha	A	0.100	0.103	5.296272E+07	5.47599E+07		3.4	20
4,4′-DDE	A	0.100	0.102	5.244698E+07	5.37175E+07		2.4	20
Endosulfan I	A	0.100	0.104	4.972951E+07	5.19852E+07		4.5	20
Dieldrin	A	0.100	0.102	5.436507E+07	5.51876E+07		1.5	20
Endrin	A	0.100	0.107	4.627937E+07	4.94466E+07		6.8	20
4,4′-DDD	A	0.100	0.106	4.00135E+07	4.25645E+07		6.4	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.5894E+07		3.3	20
4,4′-DDT	A	0.100	0.103	4.164772E+07	4.29415E+07		3.1	20
Endrin aldehyde	A	0.100	0.106	3.13612E+07	3.31916E+07		5.8	20
Methoxychlor	A	0.100	0.0957	2.117353E+07	2.02685E+07		-4.3	20
Endosulfan sulfate	A	0.100	0.108	3.673694E+07	3.96956E+07		8.1	20
Endrin ketone	A	0.100	0.102	4.568736E+07	4.6758E+07		2.3	20
alpha-BHC [2C]	A	0.100	0.104	7.552835E+07	7.84925E+07		3.9	20
gamma-BHC [2C]	A	0.100	0.103	6.719113E+07	6.93927E+07		3.3	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.67484E+07		8.2	20
delta-BHC [2C]	A	0.100	0.109	5.850208E+07	6.38122E+07		9.1	20
Heptachlor [2C]	A	0.100	0.101	6.67268E+07	6.74725E+07		1.1	20
Aldrin [2C]	A	0.100	0.102	6.357242E+07	6.4905E+07		2.1	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.6665E+07		0.7	20
Chlordane-gamma [2C]	A	0.100	0.103	5.722595E+07	5.88478E+07		2.8	20
Chlordane-alpha [2C]	A	0.100	0.102	5.472749E+07	5.59844E+07		2.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/15/07
Lab Sample ID:	BA00091-CCVJ	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.103	5.341989E+07	5.48307E+07		2.6	20
Endosulfan I [2C]	A	0.100	0.103	5.087841E+07	5.23499E+07		2.9	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.71103E+07		1.8	20
Endrin [2C]	A	0.100	0.107	4.605028E+07	4.9115E+07		6.7	20
4,4'-DDD [2C]	A	0.100	0.104	4.157866E+07	4.30454E+07		3.5	20
Endosulfan II [2C]	A	0.100	0.102	4.58875E+07	4.6853E+07		2.1	20
4,4'-DDT [2C]	A	0.100	0.0965	4.184652E+07	4.03994E+07		-3.5	20
Endrin aldehyde [2C]	A	0.100	0.104	3.232817E+07	3.34619E+07		3.5	20
Methoxychlor [2C]	A	0.100	0.0967	2.018515E+07	1.95143E+07		-3.3	20
Endosulfan sulfate [2C]	A	0.100	0.106	3.836149E+07	4.06163E+07		5.9	20
Endrin ketone [2C]	A	0.100	0.101	4.596086E+07	4.63722E+07		0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA023-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/16/07
Lab Sample ID:	BA00091-CCVK	Injection Time:	01:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.114	7.280474E+07	8.29136E+07		13.9	20
gamma-BHC	A	0.100	0.114	6.465721E+07	7.37131E+07		14.0	20
beta-BHC	A	0.100	0.117	2.323065E+07	2.72645E+07		17.4	20
delta-BHC	A	0.100	0.118	5.66961E+07	6.68207E+07		17.9	20
Heptachlor	A	0.100	0.108	6.414063E+07	6.91247E+07		7.8	20
Aldrin	A	0.100	0.110	6.149162E+07	6.76012E+07		9.9	20
Heptachlor epoxide	A	0.100	0.107	5.405995E+07	5.78356E+07		7.0	20
Chlordane-gamma	A	0.100	0.110	5.527518E+07	6.06917E+07		9.8	20
Chlordane-alpha	A	0.100	0.109	5.296272E+07	5.78042E+07		9.1	20
4,4′-DDE	A	0.100	0.108	5.244698E+07	5.67447E+07		8.2	20
Endosulfan I	A	0.100	0.110	4.972951E+07	5.4591E+07		9.8	20
Dieldrin	A	0.100	0.107	5.436507E+07	5.83719E+07		7.4	20
Endrin	A	0.100	0.113	4.627937E+07	5.2401E+07		13.2	20
4,4′-DDD	A	0.100	0.112	4.00135E+07	4.50028E+07		12.5	20
Endosulfan II	A	0.100	0.108	4.442927E+07	4.81878E+07		8.5	20
4,4′-DDT	A	0.100	0.109	4.164772E+07	4.52327E+07		8.6	20
Endrin aldehyde	A	0.100	0.113	3.13612E+07	3.52995E+07		12.6	20
Methoxychlor	A	0.100	0.101	2.117353E+07	2.13182E+07		0.7	20
Endosulfan sulfate	A	0.100	0.113	3.673694E+07	4.13592E+07		12.6	20
Endrin ketone	A	0.100	0.107	4.568736E+07	4.88757E+07		7.0	20
alpha-BHC [2C]	A	0.100	0.112	7.552835E+07	8.43596E+07		11.7	20
gamma-BHC [2C]	A	0.100	0.112	6.719113E+07	7.50238E+07		11.7	20
beta-BHC [2C]	A	0.100	0.117	2.472905E+07	2.89544E+07		17.1	20
delta-BHC [2C]	A	0.100	0.117	5.850208E+07	6.85615E+07		17.2	20
Heptachlor [2C]	A	0.100	0.108	6.67268E+07	7.23144E+07		8.4	20
Aldrin [2C]	A	0.100	0.110	6.357242E+07	6.98174E+07		9.8	20
Heptachlor epoxide [2C]	A	0.100	0.107	5.626251E+07	6.04381E+07		7.4	20
Chlordane-gamma [2C]	A	0.100	0.110	5.722595E+07	6.31567E+07		10.4	20
Chlordane-alpha [2C]	A	0.100	0.108	5.472749E+07	5.92601E+07		8.3	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB023-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/16/07
Lab Sample ID:	BA00091-CCVK	Injection Time:	01:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.110	5.341989E+07	5.89262E+07		10.3	20
Endosulfan I [2C]	A	0.100	0.108	5.087841E+07	5.49244E+07		8.0	20
Dieldrin [2C]	A	0.100	0.109	5.608619E+07	6.10078E+07		8.8	20
Endrin [2C]	A	0.100	0.115	4.605028E+07	5.28151E+07		14.7	20
4,4'-DDD [2C]	A	0.100	0.111	4.157866E+07	4.60341E+07		10.7	20
Endosulfan II [2C]	A	0.100	0.108	4.58875E+07	4.97748E+07		8.5	20
4,4'-DDT [2C]	A	0.100	0.106	4.184652E+07	4.41756E+07		5.6	20
Endrin aldehyde [2C]	A	0.100	0.112	3.232817E+07	3.60534E+07		11.5	20
Methoxychlor [2C]	A	0.100	0.102	2.018515E+07	2.06216E+07		2.2	20
Endosulfan sulfate [2C]	A	0.100	0.112	3.836149E+07	4.303E+07		12.2	20
Endrin ketone [2C]	A	0.100	0.107	4.596086E+07	4.91413E+07		6.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA026-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/16/07
Lab Sample ID:	BA00091-CCVL	Injection Time:	03:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.115	7.280474E+07	8.36662E+07		14.9	20
gamma-BHC	A	0.100	0.115	6.465721E+07	7.4213E+07		14.8	20
beta-BHC	A	0.100	0.118	2.323065E+07	2.73608E+07		17.8	20
delta-BHC	A	0.100	0.117	5.66961E+07	6.65482E+07		17.4	20
Heptachlor	A	0.100	0.108	6.414063E+07	6.93633E+07		8.1	20
Aldrin	A	0.100	0.110	6.149162E+07	6.77842E+07		10.2	20
Heptachlor epoxide	A	0.100	0.107	5.405995E+07	5.7801E+07		6.9	20
Chlordane-gamma	A	0.100	0.110	5.527518E+07	6.05444E+07		9.5	20
Chlordane-alpha	A	0.100	0.109	5.296272E+07	5.76892E+07		8.9	20
4,4′-DDE	A	0.100	0.108	5.244698E+07	5.69034E+07		8.5	20
Endosulfan I	A	0.100	0.109	4.972951E+07	5.41437E+07		8.9	20
Dieldrin	A	0.100	0.107	5.436507E+07	5.81475E+07		7.0	20
Endrin	A	0.100	0.114	4.627937E+07	5.25574E+07		13.6	20
4,4′-DDD	A	0.100	0.112	4.00135E+07	4.48885E+07		12.2	20
Endosulfan II	A	0.100	0.107	4.442927E+07	4.76942E+07		7.3	20
4,4′-DDT	A	0.100	0.108	4.164772E+07	4.47766E+07		7.5	20
Endrin aldehyde	A	0.100	0.111	3.13612E+07	3.47032E+07		10.7	20
Methoxychlor	A	0.100	0.100	2.117353E+07	2.12641E+07		0.4	20
Endosulfan sulfate	A	0.100	0.111	3.673694E+07	4.08763E+07		11.3	20
Endrin ketone	A	0.100	0.0997	4.568736E+07	4.55371E+07		-0.3	20
alpha-BHC [2C]	A	0.100	0.113	7.552835E+07	8.50228E+07		12.6	20
gamma-BHC [2C]	A	0.100	0.112	6.719113E+07	7.54026E+07		12.2	20
beta-BHC [2C]	A	0.100	0.117	2.472905E+07	2.90435E+07		17.4	20
delta-BHC [2C]	A	0.100	0.118	5.850208E+07	6.8851E+07		17.7	20
Heptachlor [2C]	A	0.100	0.108	6.67268E+07	7.23827E+07		8.5	20
Aldrin [2C]	A	0.100	0.110	6.357242E+07	6.97436E+07		9.7	20
Heptachlor epoxide [2C]	A	0.100	0.107	5.626251E+07	6.03389E+07		7.2	20
Chlordane-gamma [2C]	A	0.100	0.110	5.722595E+07	6.2922E+07		10.0	20
Chlordane-alpha [2C]	A	0.100	0.109	5.472749E+07	5.96853E+07		9.1	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB026-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00091	Injection Date:	01/16/07
Lab Sample ID:	BA00091-CCVL	Injection Time:	03:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.109	5.341989E+07	5.82612E+07		9.1	20
Endosulfan I [2C]	A	0.100	0.110	5.087841E+07	5.57979E+07		9.7	20
Dieldrin [2C]	A	0.100	0.107	5.608619E+07	6.0089E+07		7.1	20
Endrin [2C]	A	0.100	0.115	4.605028E+07	5.29588E+07		15.0	20
4,4'-DDD [2C]	A	0.100	0.111	4.157866E+07	4.60665E+07		10.8	20
Endosulfan II [2C]	A	0.100	0.108	4.58875E+07	4.95591E+07		8.0	20
4,4'-DDT [2C]	A	0.100	0.0956	4.184652E+07	4.00059E+07		-4.4	20
Endrin aldehyde [2C]	A	0.100	0.0969	3.232817E+07	3.13181E+07		-3.1	20
Methoxychlor [2C]	A	0.100	0.102	2.018515E+07	2.05893E+07		2.0	20
Endosulfan sulfate [2C]	A	0.100	0.110	3.836149E+07	4.24059E+07		10.5	20
Endrin ketone [2C]	A	0.100	0.106	4.596086E+07	4.89096E+07		6.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJA003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/15/06
Lab Sample ID:	BA00094-CCV1	Injection Time:	18:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0873	7.280474E+07	6.3567E+07		-12.7	20
gamma-BHC	A	0.100	0.0873	6.465721E+07	5.64578E+07		-12.7	20
beta-BHC	A	0.100	0.0892	2.323065E+07	2.07226E+07		-10.8	20
delta-BHC	A	0.100	0.0898	5.66961E+07	5.09148E+07		-10.2	20
Heptachlor	A	0.100	0.0842	6.414063E+07	5.40317E+07		-15.8	20
Aldrin	A	0.100	0.0863	6.149162E+07	5.30638E+07		-13.7	20
Heptachlor epoxide	A	0.100	0.0856	5.405995E+07	4.62805E+07		-14.4	20
Chlordane-gamma	A	0.100	0.0852	5.527518E+07	4.71102E+07		-14.8	20
Chlordane-alpha	A	0.100	0.0845	5.296272E+07	4.47337E+07		-15.5	20
4,4'-DDE	A	0.100	0.0851	5.244698E+07	4.46173E+07		-14.9	20
Endosulfan I	A	0.100	0.0856	4.972951E+07	4.25822E+07		-14.4	20
Dieldrin	A	0.100	0.0864	5.436507E+07	4.69751E+07		-13.6	20
Endrin	A	0.100	0.0855	4.627937E+07	3.95717E+07		-14.5	20
4,4'-DDD	A	0.100	0.0864	4.00135E+07	3.45685E+07		-13.6	20
Endosulfan II	A	0.100	0.0857	4.442927E+07	3.80862E+07		-14.3	20
4,4'-DDT	A	0.100	0.0842	4.164772E+07	3.50763E+07		-15.8	20
Endrin aldehyde	A	0.100	0.0896	3.13612E+07	2.80919E+07		-10.4	20
Methoxychlor	A	0.100	0.0797	2.117353E+07	1.68772E+07		-20.3	20
Endosulfan sulfate	A	0.100	0.0863	3.673694E+07	3.16897E+07		-13.7	20
Endrin ketone	A	0.100	0.0854	4.568736E+07	3.90337E+07		-14.6	20
alpha-BHC [2C]	A	0.100	0.0866	7.552835E+07	6.5441E+07		-13.4	20
gamma-BHC [2C]	A	0.100	0.0868	6.719113E+07	5.83377E+07		-13.2	20
beta-BHC [2C]	A	0.100	0.0890	2.472905E+07	2.20167E+07		-11.0	20
delta-BHC [2C]	A	0.100	0.0893	5.850208E+07	5.22665E+07		-10.7	20
Heptachlor [2C]	A	0.100	0.0841	6.67268E+07	5.60902E+07		-15.9	20
Aldrin [2C]	A	0.100	0.0859	6.357242E+07	5.45925E+07		-14.1	20
Heptachlor epoxide [2C]	A	0.100	0.0845	5.626251E+07	4.75376E+07		-15.5	20
Chlordane-gamma [2C]	A	0.100	0.0845	5.722595E+07	4.83753E+07		-15.5	20
Chlordane-alpha [2C]	A	0.100	0.0835	5.472749E+07	4.57205E+07		-16.5	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJB003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/15/06
Lab Sample ID:	BA00094-CCV1	Injection Time:	18:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0852	5.341989E+07	4.54954E+07		-14.8	20	
Endosulfan I [2C]	A	0.100	0.0845	5.087841E+07	4.3012E+07		-15.5	20	
Dieldrin [2C]	A	0.100	0.0855	5.608619E+07	4.7935E+07		-14.5	20	
Endrin [2C]	A	0.100	0.0835	4.605028E+07	3.8436E+07		-16.5	20	
4,4'-DDD [2C]	A	0.100	0.0838	4.157866E+07	3.48443E+07		-16.2	20	
Endosulfan II [2C]	A	0.100	0.0838	4.58875E+07	3.84714E+07		-16.2	20	
4,4'-DDT [2C]	A	0.100	0.0817	4.184652E+07	3.41807E+07		-18.3	20	
Endrin aldehyde [2C]	A	0.100	0.0895	3.232817E+07	2.89495E+07		-10.5	20	
Methoxychlor [2C]	A	0.100	0.0786	2.018515E+07	1.58753E+07		-21.4	20	*
Endosulfan sulfate [2C]	A	0.100	0.0861	3.836149E+07	3.30214E+07		-13.9	20	
Endrin ketone [2C]	A	0.100	0.0848	4.596086E+07	3.89866E+07		-15.2	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJA014-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/15/06
Lab Sample ID:	BA00094-CCV2	Injection Time:	23:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0897	7.280474E+07	6.52988E+07		-10.3	20
gamma-BHC	A	0.100	0.0885	6.465721E+07	5.7248E+07		-11.5	20
beta-BHC	A	0.100	0.0919	2.323065E+07	2.13486E+07		-8.1	20
delta-BHC	A	0.100	0.0928	5.66961E+07	5.26063E+07		-7.2	20
Heptachlor	A	0.100	0.0839	6.414063E+07	5.37838E+07		-16.1	20
Aldrin	A	0.100	0.0869	6.149162E+07	5.34155E+07		-13.1	20
Heptachlor epoxide	A	0.100	0.0857	5.405995E+07	4.63173E+07		-14.3	20
Chlordane-gamma	A	0.100	0.0847	5.527518E+07	4.68278E+07		-15.3	20
Chlordane-alpha	A	0.100	0.0839	5.296272E+07	4.44398E+07		-16.1	20
4,4′-DDE	A	0.100	0.0863	5.244698E+07	4.52524E+07		-13.7	20
Endosulfan I	A	0.100	0.0848	4.972951E+07	4.21941E+07		-15.2	20
Dieldrin	A	0.100	0.0845	5.436507E+07	4.59543E+07		-15.5	20
Endrin	A	0.100	0.0880	4.627937E+07	4.07121E+07		-12.0	20
4,4′-DDD	A	0.100	0.0975	4.00135E+07	3.90034E+07		-2.5	20
Endosulfan II	A	0.100	0.0862	4.442927E+07	3.8299E+07		-13.8	20
4,4′-DDT	A	0.100	0.0659	4.164772E+07	2.74273E+07		-34.1	20 *
Endrin aldehyde	A	0.100	0.0831	3.13612E+07	2.60554E+07		-16.9	20
Methoxychlor	A	0.100	0.0710	2.117353E+07	1.50363E+07		-29.0	20 *
Endosulfan sulfate	A	0.100	0.0894	3.673694E+07	3.28394E+07		-10.6	20
Endrin ketone	A	0.100	0.0870	4.568736E+07	3.9742E+07		-13.0	20
alpha-BHC [2C]	A	0.100	0.0927	7.552835E+07	7.00051E+07		-7.3	20
gamma-BHC [2C]	A	0.100	0.0918	6.719113E+07	6.1661E+07		-8.2	20
beta-BHC [2C]	A	0.100	0.0960	2.472905E+07	2.37447E+07		-4.0	20
delta-BHC [2C]	A	0.100	0.0965	5.850208E+07	5.64257E+07		-3.5	20
Heptachlor [2C]	A	0.100	0.0866	6.67268E+07	5.78047E+07		-13.4	20
Aldrin [2C]	A	0.100	0.0895	6.357242E+07	5.69013E+07		-10.5	20
Heptachlor epoxide [2C]	A	0.100	0.0865	5.626251E+07	4.86534E+07		-13.5	20
Chlordane-gamma [2C]	A	0.100	0.0863	5.722595E+07	4.93722E+07		-13.7	20
Chlordane-alpha [2C]	A	0.100	0.0845	5.472749E+07	4.62353E+07		-15.5	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJB014-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/15/06
Lab Sample ID:	BA00094-CCV2	Injection Time:	23:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0880	5.341989E+07	4.70295E+07		-12.0	20	
Endosulfan I [2C]	A	0.100	0.0862	5.087841E+07	4.38801E+07		-13.8	20	
Dieldrin [2C]	A	0.100	0.0880	5.608619E+07	4.9343E+07		-12.0	20	
Endrin [2C]	A	0.100	0.0915	4.605028E+07	4.21284E+07		-8.5	20	
4,4'-DDD [2C]	A	0.100	0.0997	4.157866E+07	4.14651E+07		-0.3	20	
Endosulfan II [2C]	A	0.100	0.0890	4.58875E+07	4.08224E+07		-11.0	20	
4,4'-DDT [2C]	A	0.100	0.0686	4.184652E+07	2.86993E+07		-31.4	20	*
Endrin aldehyde [2C]	A	0.100	0.0835	3.232817E+07	2.698E+07		-16.5	20	
Methoxychlor [2C]	A	0.100	0.0825	2.018515E+07	1.66539E+07		-17.5	20	
Endosulfan sulfate [2C]	A	0.100	0.0919	3.836149E+07	3.52651E+07		-8.1	20	
Endrin ketone [2C]	A	0.100	0.0881	4.596086E+07	4.05057E+07		-11.9	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AMA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/18/07
Lab Sample ID:	BA00094-CCVA	Injection Time:	11:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.114	7.280474E+07	8.31471E+07		14.2	20
gamma-BHC	A	0.100	0.114	6.465721E+07	7.3676E+07		13.9	20
beta-BHC	A	0.100	0.116	2.323065E+07	2.70278E+07		16.3	20
delta-BHC	A	0.100	0.114	5.66961E+07	6.49028E+07		14.5	20
Heptachlor	A	0.100	0.107	6.414063E+07	6.86603E+07		7.0	20
Aldrin	A	0.100	0.111	6.149162E+07	6.79968E+07		10.6	20
Heptachlor epoxide	A	0.100	0.107	5.405995E+07	5.78298E+07		7.0	20
Chlordane-gamma	A	0.100	0.110	5.527518E+07	6.08246E+07		10.0	20
Chlordane-alpha	A	0.100	0.109	5.296272E+07	5.78653E+07		9.3	20
4,4′-DDE	A	0.100	0.107	5.244698E+07	5.61906E+07		7.1	20
Endosulfan I	A	0.100	0.111	4.972951E+07	5.52054E+07		11.0	20
Dieldrin	A	0.100	0.108	5.436507E+07	5.85068E+07		7.6	20
Endrin	A	0.100	0.105	4.627937E+07	4.85277E+07		4.9	20
4,4′-DDD	A	0.100	0.108	4.00135E+07	4.31976E+07		8.0	20
Endosulfan II	A	0.100	0.106	4.442927E+07	4.71199E+07		6.1	20
4,4′-DDT	A	0.100	0.108	4.164772E+07	4.4769E+07		7.5	20
Endrin aldehyde	A	0.100	0.116	3.13612E+07	3.63651E+07		16.0	20
Methoxychlor	A	0.100	0.0955	2.117353E+07	2.02271E+07		-4.5	20
Endosulfan sulfate	A	0.100	0.100	3.673694E+07	3.68316E+07		0.3	20
Endrin ketone	A	0.100	0.0974	4.568736E+07	4.45026E+07		-2.6	20
alpha-BHC [2C]	A	0.100	0.108	7.552835E+07	8.17862E+07		8.3	20
gamma-BHC [2C]	A	0.100	0.108	6.719113E+07	7.2466E+07		7.9	20
beta-BHC [2C]	A	0.100	0.113	2.472905E+07	2.79124E+07		12.9	20
delta-BHC [2C]	A	0.100	0.109	5.850208E+07	6.37992E+07		9.1	20
Heptachlor [2C]	A	0.100	0.105	6.67268E+07	7.00509E+07		5.0	20
Aldrin [2C]	A	0.100	0.107	6.357242E+07	6.79165E+07		6.8	20
Heptachlor epoxide [2C]	A	0.100	0.105	5.626251E+07	5.88963E+07		4.7	20
Chlordane-gamma [2C]	A	0.100	0.108	5.722595E+07	6.1583E+07		7.6	20
Chlordane-alpha [2C]	A	0.100	0.106	5.472749E+07	5.82137E+07		6.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AMB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/18/07
Lab Sample ID:	BA00094-CCVA	Injection Time:	11:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.108	5.341989E+07	5.74528E+07		7.5	20
Endosulfan I [2C]	A	0.100	0.107	5.087841E+07	5.43799E+07		6.9	20
Dieldrin [2C]	A	0.100	0.106	5.608619E+07	5.94785E+07		6.0	20
Endrin [2C]	A	0.100	0.103	4.605028E+07	4.76288E+07		3.4	20
4,4'-DDD [2C]	A	0.100	0.106	4.157866E+07	4.3939E+07		5.7	20
Endosulfan II [2C]	A	0.100	0.106	4.58875E+07	4.85104E+07		5.7	20
4,4'-DDT [2C]	A	0.100	0.103	4.184652E+07	4.29807E+07		2.7	20
Endrin aldehyde [2C]	A	0.100	0.114	3.232817E+07	3.66947E+07		13.5	20
Methoxychlor [2C]	A	0.100	0.0972	2.018515E+07	1.96133E+07		-2.8	20
Endosulfan sulfate [2C]	A	0.100	0.0982	3.836149E+07	3.76622E+07		-1.8	20
Endrin ketone [2C]	A	0.100	0.0947	4.596086E+07	4.35226E+07		-5.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AMA007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/18/07
Lab Sample ID:	BA00094-CCVB	Injection Time:	13:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.115	7.280474E+07	8.39078E+07		15.3	20
gamma-BHC	A	0.100	0.114	6.465721E+07	7.38819E+07		14.3	20
beta-BHC	A	0.100	0.117	2.323065E+07	2.718E+07		17.0	20
delta-BHC	A	0.100	0.110	5.66961E+07	6.23164E+07		9.9	20
Heptachlor	A	0.100	0.106	6.414063E+07	6.82838E+07		6.5	20
Aldrin	A	0.100	0.111	6.149162E+07	6.81945E+07		10.9	20
Heptachlor epoxide	A	0.100	0.107	5.405995E+07	5.78269E+07		7.0	20
Chlordane-gamma	A	0.100	0.110	5.527518E+07	6.09617E+07		10.3	20
Chlordane-alpha	A	0.100	0.110	5.296272E+07	5.79769E+07		9.5	20
4,4′-DDE	A	0.100	0.105	5.244698E+07	5.51565E+07		5.2	20
Endosulfan I	A	0.100	0.113	4.972951E+07	5.60609E+07		12.7	20
Dieldrin	A	0.100	0.108	5.436507E+07	5.84239E+07		7.5	20
Endrin	A	0.100	0.106	4.627937E+07	4.88524E+07		5.6	20
4,4′-DDD	A	0.100	0.107	4.00135E+07	4.28955E+07		7.2	20
Endosulfan II	A	0.100	0.107	4.442927E+07	4.74108E+07		6.7	20
4,4′-DDT	A	0.100	0.108	4.164772E+07	4.48465E+07		7.7	20
Endrin aldehyde	A	0.100	0.117	3.13612E+07	3.68026E+07		17.4	20
Methoxychlor	A	0.100	0.0945	2.117353E+07	2.00069E+07		-5.5	20
Endosulfan sulfate	A	0.100	0.101	3.673694E+07	3.70732E+07		0.9	20
Endrin ketone	A	0.100	0.0977	4.568736E+07	4.46441E+07		-2.3	20
alpha-BHC [2C]	A	0.100	0.110	7.552835E+07	8.28646E+07		9.7	20
gamma-BHC [2C]	A	0.100	0.108	6.719113E+07	7.23573E+07		7.7	20
beta-BHC [2C]	A	0.100	0.113	2.472905E+07	2.79451E+07		13.0	20
delta-BHC [2C]	A	0.100	0.108	5.850208E+07	6.34744E+07		8.5	20
Heptachlor [2C]	A	0.100	0.107	6.67268E+07	7.1498E+07		7.2	20
Aldrin [2C]	A	0.100	0.108	6.357242E+07	6.85392E+07		7.8	20
Heptachlor epoxide [2C]	A	0.100	0.105	5.626251E+07	5.91633E+07		5.2	20
Chlordane-gamma [2C]	A	0.100	0.108	5.722595E+07	6.211E+07		8.5	20
Chlordane-alpha [2C]	A	0.100	0.108	5.472749E+07	5.88073E+07		7.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AMB007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/18/07
Lab Sample ID:	BA00094-CCVB	Injection Time:	13:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.107	5.341989E+07	5.73861E+07		7.4	20
Endosulfan I [2C]	A	0.100	0.108	5.087841E+07	5.46846E+07		7.5	20
Dieldrin [2C]	A	0.100	0.106	5.608619E+07	5.96553E+07		6.4	20
Endrin [2C]	A	0.100	0.104	4.605028E+07	4.78793E+07		4.0	20
4,4'-DDD [2C]	A	0.100	0.105	4.157866E+07	4.3807E+07		5.4	20
Endosulfan II [2C]	A	0.100	0.106	4.58875E+07	4.8704E+07		6.1	20
4,4'-DDT [2C]	A	0.100	0.0958	4.184652E+07	4.00834E+07		-4.2	20
Endrin aldehyde [2C]	A	0.100	0.113	3.232817E+07	3.64364E+07		12.7	20
Methoxychlor [2C]	A	0.100	0.0914	2.018515E+07	1.84491E+07		-8.6	20
Endosulfan sulfate [2C]	A	0.100	0.0982	3.836149E+07	3.76599E+07		-1.8	20
Endrin ketone [2C]	A	0.100	0.0941	4.596086E+07	4.32364E+07		-5.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV1	Injection Time:	11:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0878	7.280474E+07	6.39148E+07		-12.2	20
gamma-BHC	A	0.100	0.0878	6.465721E+07	5.68009E+07		-12.2	20
beta-BHC	A	0.100	0.0911	2.323065E+07	2.1159E+07		-8.9	20
delta-BHC	A	0.100	0.0857	5.66961E+07	4.85966E+07		-14.3	20
Heptachlor	A	0.100	0.0876	6.414063E+07	5.61711E+07		-12.4	20
Aldrin	A	0.100	0.0864	6.149162E+07	5.31512E+07		-13.6	20
Heptachlor epoxide	A	0.100	0.0877	5.405995E+07	4.73864E+07		-12.3	20
Chlordane-gamma	A	0.100	0.0853	5.527518E+07	4.71511E+07		-14.7	20
Chlordane-alpha	A	0.100	0.0888	5.296272E+07	4.70087E+07		-11.2	20
4,4′-DDE	A	0.100	0.0881	5.244698E+07	4.61932E+07		-11.9	20
Endosulfan I	A	0.100	0.0862	4.972951E+07	4.2891E+07		-13.8	20
Dieldrin	A	0.100	0.0884	5.436507E+07	4.80431E+07		-11.6	20
Endrin	A	0.100	0.0932	4.627937E+07	4.31322E+07		-6.8	20
4,4′-DDD	A	0.100	0.0898	4.00135E+07	3.59511E+07		-10.2	20
Endosulfan II	A	0.100	0.0871	4.442927E+07	3.8718E+07		-12.9	20
4,4′-DDT	A	0.100	0.0844	4.164772E+07	3.51372E+07		-15.6	20
Endrin aldehyde	A	0.100	0.0880	3.13612E+07	2.75854E+07		-12.0	20
Methoxychlor	A	0.100	0.0862	2.117353E+07	1.82442E+07		-13.8	20
Endosulfan sulfate	A	0.100	0.0872	3.673694E+07	3.20484E+07		-12.8	20
Endrin ketone	A	0.100	0.0818	4.568736E+07	3.73513E+07		-18.2	20
alpha-BHC [2C]	A	0.100	0.0842	7.552835E+07	6.36054E+07		-15.8	20
gamma-BHC [2C]	A	0.100	0.0817	6.719113E+07	5.48947E+07		-18.3	20
beta-BHC [2C]	A	0.100	0.0849	2.472905E+07	2.09939E+07		-15.1	20
delta-BHC [2C]	A	0.100	0.0803	5.850208E+07	4.69584E+07		-19.7	20
Heptachlor [2C]	A	0.100	0.0816	6.67268E+07	5.44735E+07		-18.4	20
Aldrin [2C]	A	0.100	0.0845	6.357242E+07	5.37178E+07		-15.5	20
Heptachlor epoxide [2C]	A	0.100	0.0818	5.626251E+07	4.60264E+07		-18.2	20
Chlordane-gamma [2C]	A	0.100	0.0830	5.722595E+07	4.74716E+07		-17.0	20
Chlordane-alpha [2C]	A	0.100	0.0826	5.472749E+07	4.52075E+07		-17.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV1	Injection Time:	11:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0863	5.341989E+07	4.6076E+07		-13.7	20
Endosulfan I [2C]	A	0.100	0.0886	5.087841E+07	4.50699E+07		-11.4	20
Dieldrin [2C]	A	0.100	0.0863	5.608619E+07	4.83878E+07		-13.7	20
Endrin [2C]	A	0.100	0.0925	4.605028E+07	4.2604E+07		-7.5	20
4,4'-DDD [2C]	A	0.100	0.0884	4.157866E+07	3.67359E+07		-11.6	20
Endosulfan II [2C]	A	0.100	0.0865	4.58875E+07	3.96779E+07		-13.5	20
4,4'-DDT [2C]	A	0.100	0.0830	4.184652E+07	3.47485E+07		-17.0	20
Endrin aldehyde [2C]	A	0.100	0.0896	3.232817E+07	2.89568E+07		-10.4	20
Methoxychlor [2C]	A	0.100	0.0866	2.018515E+07	1.74848E+07		-13.4	20
Endosulfan sulfate [2C]	A	0.100	0.0873	3.836149E+07	3.34746E+07		-12.7	20
Endrin ketone [2C]	A	0.100	0.0799	4.596086E+07	3.6736E+07		-20.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV2	Injection Time:	16:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0920	7.280474E+07	6.69491E+07		-8.0	20
gamma-BHC	A	0.100	0.0909	6.465721E+07	5.88032E+07		-9.1	20
beta-BHC	A	0.100	0.0946	2.323065E+07	2.19685E+07		-5.4	20
delta-BHC	A	0.100	0.0935	5.66961E+07	5.30239E+07		-6.5	20
Heptachlor	A	0.100	0.0891	6.414063E+07	5.71192E+07		-10.9	20
Aldrin	A	0.100	0.0878	6.149162E+07	5.39983E+07		-12.2	20
Heptachlor epoxide	A	0.100	0.0886	5.405995E+07	4.7878E+07		-11.4	20
Chlordane-gamma	A	0.100	0.0865	5.527518E+07	4.78303E+07		-13.5	20
Chlordane-alpha	A	0.100	0.0859	5.296272E+07	4.5488E+07		-14.1	20
4,4′-DDE	A	0.100	0.0891	5.244698E+07	4.67156E+07		-10.9	20
Endosulfan I	A	0.100	0.0877	4.972951E+07	4.36098E+07		-12.3	20
Dieldrin	A	0.100	0.0893	5.436507E+07	4.8559E+07		-10.7	20
Endrin	A	0.100	0.0946	4.627937E+07	4.37989E+07		-5.4	20
4,4′-DDD	A	0.100	0.0895	4.00135E+07	3.58214E+07		-10.5	20
Endosulfan II	A	0.100	0.0861	4.442927E+07	3.82695E+07		-13.9	20
4,4′-DDT	A	0.100	0.0838	4.164772E+07	3.48838E+07		-16.2	20
Endrin aldehyde	A	0.100	0.0923	3.13612E+07	2.89476E+07		-7.7	20
Methoxychlor	A	0.100	0.0852	2.117353E+07	1.80302E+07		-14.8	20
Endosulfan sulfate	A	0.100	0.0944	3.673694E+07	3.46672E+07		-5.6	20
Endrin ketone	A	0.100	0.0869	4.568736E+07	3.97032E+07		-13.1	20
alpha-BHC [2C]	A	0.100	0.0911	7.552835E+07	6.88314E+07		-8.9	20
gamma-BHC [2C]	A	0.100	0.0902	6.719113E+07	6.06255E+07		-9.8	20
beta-BHC [2C]	A	0.100	0.0935	2.472905E+07	2.31295E+07		-6.5	20
delta-BHC [2C]	A	0.100	0.0868	5.850208E+07	5.07693E+07		-13.2	20
Heptachlor [2C]	A	0.100	0.0838	6.67268E+07	5.59353E+07		-16.2	20
Aldrin [2C]	A	0.100	0.0877	6.357242E+07	5.57535E+07		-12.3	20
Heptachlor epoxide [2C]	A	0.100	0.0819	5.626251E+07	4.60595E+07		-18.1	20
Chlordane-gamma [2C]	A	0.100	0.0846	5.722595E+07	4.84389E+07		-15.4	20
Chlordane-alpha [2C]	A	0.100	0.0845	5.472749E+07	4.62558E+07		-15.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV2	Injection Time:	16:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0888	5.341989E+07	4.74223E+07		-11.2	20
Endosulfan I [2C]	A	0.100	0.0866	5.087841E+07	4.40416E+07		-13.4	20
Dieldrin [2C]	A	0.100	0.0880	5.608619E+07	4.93447E+07		-12.0	20
Endrin [2C]	A	0.100	0.0944	4.605028E+07	4.34611E+07		-5.6	20
4,4'-DDD [2C]	A	0.100	0.0902	4.157866E+07	3.7523E+07		-9.8	20
Endosulfan II [2C]	A	0.100	0.0831	4.58875E+07	3.81321E+07		-16.9	20
4,4'-DDT [2C]	A	0.100	0.0802	4.184652E+07	3.35788E+07		-19.8	20
Endrin aldehyde [2C]	A	0.100	0.0917	3.232817E+07	2.96325E+07		-8.3	20
Methoxychlor [2C]	A	0.100	0.0857	2.018515E+07	1.73014E+07		-14.3	20
Endosulfan sulfate [2C]	A	0.100	0.0927	3.836149E+07	3.55683E+07		-7.3	20
Endrin ketone [2C]	A	0.100	0.0844	4.596086E+07	3.87998E+07		-15.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA017-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV3	Injection Time:	18:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0998	7.280474E+07	7.26927E+07		-0.2	20
gamma-BHC	A	0.100	0.0985	6.465721E+07	6.36725E+07		-1.5	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.36958E+07		2.0	20
delta-BHC	A	0.100	0.101	5.66961E+07	5.71913E+07		0.9	20
Heptachlor	A	0.100	0.0937	6.414063E+07	6.00972E+07		-6.3	20
Aldrin	A	0.100	0.0937	6.149162E+07	5.75949E+07		-6.3	20
Heptachlor epoxide	A	0.100	0.0939	5.405995E+07	5.0782E+07		-6.1	20
Chlordane-gamma	A	0.100	0.0921	5.527518E+07	5.08952E+07		-7.9	20
Chlordane-alpha	A	0.100	0.0895	5.296272E+07	4.7421E+07		-10.5	20
4,4′-DDE	A	0.100	0.0940	5.244698E+07	4.92839E+07		-6.0	20
Endosulfan I	A	0.100	0.0921	4.972951E+07	4.57925E+07		-7.9	20
Dieldrin	A	0.100	0.0941	5.436507E+07	5.11425E+07		-5.9	20
Endrin	A	0.100	0.0997	4.627937E+07	4.61288E+07		-0.3	20
4,4′-DDD	A	0.100	0.102	4.00135E+07	4.06248E+07		1.5	20
Endosulfan II	A	0.100	0.0931	4.442927E+07	4.13472E+07		-6.9	20
4,4′-DDT	A	0.100	0.0801	4.164772E+07	3.33519E+07		-19.9	20
Endrin aldehyde	A	0.100	0.0953	3.13612E+07	2.98872E+07		-4.7	20
Methoxychlor	A	0.100	0.0849	2.117353E+07	1.79786E+07		-15.1	20
Endosulfan sulfate	A	0.100	0.0959	3.673694E+07	3.5235E+07		-4.1	20
Endrin ketone	A	0.100	0.0915	4.568736E+07	4.18219E+07		-8.5	20
alpha-BHC [2C]	A	0.100	0.0989	7.552835E+07	7.4704E+07		-1.1	20
gamma-BHC [2C]	A	0.100	0.0979	6.719113E+07	6.57657E+07		-2.1	20
beta-BHC [2C]	A	0.100	0.102	2.472905E+07	2.53531E+07		2.5	20
delta-BHC [2C]	A	0.100	0.0950	5.850208E+07	5.55606E+07		-5.0	20
Heptachlor [2C]	A	0.100	0.0895	6.67268E+07	5.97157E+07		-10.5	20
Aldrin [2C]	A	0.100	0.0940	6.357242E+07	5.97562E+07		-6.0	20
Heptachlor epoxide [2C]	A	0.100	0.0881	5.626251E+07	4.95668E+07		-11.9	20
Chlordane-gamma [2C]	A	0.100	0.0904	5.722595E+07	5.17417E+07		-9.6	20
Chlordane-alpha [2C]	A	0.100	0.0890	5.472749E+07	4.87029E+07		-11.0	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB017-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV3	Injection Time:	18:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0930	5.341989E+07	4.96598E+07		-7.0	20	
Endosulfan I [2C]	A	0.100	0.0912	5.087841E+07	4.63984E+07		-8.8	20	
Dieldrin [2C]	A	0.100	0.0904	5.608619E+07	5.07147E+07		-9.6	20	
Endrin [2C]	A	0.100	0.0966	4.605028E+07	4.44949E+07		-3.4	20	
4,4'-DDD [2C]	A	0.100	0.0981	4.157866E+07	4.07924E+07		-1.9	20	
Endosulfan II [2C]	A	0.100	0.0913	4.58875E+07	4.18846E+07		-8.7	20	
4,4'-DDT [2C]	A	0.100	0.0777	4.184652E+07	3.25352E+07		-22.3	20	*
Endrin aldehyde [2C]	A	0.100	0.0920	3.232817E+07	2.9732E+07		-8.0	20	
Methoxychlor [2C]	A	0.100	0.0840	2.018515E+07	1.69607E+07		-16.0	20	
Endosulfan sulfate [2C]	A	0.100	0.0944	3.836149E+07	3.62237E+07		-5.6	20	
Endrin ketone [2C]	A	0.100	0.0880	4.596086E+07	4.04471E+07		-12.0	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV4	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.106	7.280474E+07	7.68885E+07		5.6	20
gamma-BHC	A	0.100	0.106	6.465721E+07	6.84021E+07		5.8	20
beta-BHC	A	0.100	0.108	2.323065E+07	2.51638E+07		8.3	20
delta-BHC	A	0.100	0.107	5.66961E+07	6.09052E+07		7.4	20
Heptachlor	A	0.100	0.0984	6.414063E+07	6.31121E+07		-1.6	20
Aldrin	A	0.100	0.102	6.149162E+07	6.28457E+07		2.2	20
Heptachlor epoxide	A	0.100	0.0988	5.405995E+07	5.34168E+07		-1.2	20
Chlordane-gamma	A	0.100	0.102	5.527518E+07	5.62541E+07		1.8	20
Chlordane-alpha	A	0.100	0.102	5.296272E+07	5.37942E+07		1.6	20
4,4′-DDE	A	0.100	0.0987	5.244698E+07	5.1753E+07		-1.3	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.04107E+07		1.4	20
Dieldrin	A	0.100	0.100	5.436507E+07	5.45375E+07		0.3	20
Endrin	A	0.100	0.102	4.627937E+07	4.71379E+07		1.9	20
4,4′-DDD	A	0.100	0.0999	4.00135E+07	3.99588E+07		-0.1	20
Endosulfan II	A	0.100	0.0995	4.442927E+07	4.42009E+07		-0.5	20
4,4′-DDT	A	0.100	0.100	4.164772E+07	4.17831E+07		0.3	20
Endrin aldehyde	A	0.100	0.106	3.13612E+07	3.30975E+07		5.5	20
Methoxychlor	A	0.100	0.0900	2.117353E+07	1.90556E+07		-10.0	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.73148E+07		1.6	20
Endrin ketone	A	0.100	0.0974	4.568736E+07	4.45066E+07		-2.6	20
alpha-BHC [2C]	A	0.100	0.106	7.552835E+07	8.01853E+07		6.2	20
gamma-BHC [2C]	A	0.100	0.106	6.719113E+07	7.14683E+07		6.4	20
beta-BHC [2C]	A	0.100	0.111	2.472905E+07	2.74034E+07		10.8	20
delta-BHC [2C]	A	0.100	0.110	5.850208E+07	6.4283E+07		9.9	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.84272E+07		2.5	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.62091E+07		4.1	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.66261E+07		0.6	20
Chlordane-gamma [2C]	A	0.100	0.105	5.722595E+07	6.0018E+07		4.9	20
Chlordane-alpha [2C]	A	0.100	0.103	5.472749E+07	5.61833E+07		2.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV4	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.104	5.341989E+07	5.53691E+07		3.6	20
Endosulfan I [2C]	A	0.100	0.102	5.087841E+07	5.17736E+07		1.8	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.74068E+07		2.4	20
Endrin [2C]	A	0.100	0.104	4.605028E+07	4.76899E+07		3.6	20
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.24848E+07		2.2	20
Endosulfan II [2C]	A	0.100	0.102	4.58875E+07	4.67259E+07		1.8	20
4,4'-DDT [2C]	A	0.100	0.103	4.184652E+07	4.32596E+07		3.4	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.48409E+07		7.8	20
Methoxychlor [2C]	A	0.100	0.0949	2.018515E+07	1.91563E+07		-5.1	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.836149E+07	3.98218E+07		3.8	20
Endrin ketone [2C]	A	0.100	0.0990	4.596086E+07	4.54807E+07		-1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA019-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV5	Injection Time:	20:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.107	7.280474E+07	7.79407E+07		7.1	20
gamma-BHC	A	0.100	0.107	6.465721E+07	6.91652E+07		7.0	20
beta-BHC	A	0.100	0.110	2.323065E+07	2.55602E+07		10.0	20
delta-BHC	A	0.100	0.110	5.66961E+07	6.26225E+07		10.5	20
Heptachlor	A	0.100	0.0991	6.414063E+07	6.35562E+07		-0.9	20
Aldrin	A	0.100	0.103	6.149162E+07	6.31769E+07		2.7	20
Heptachlor epoxide	A	0.100	0.0984	5.405995E+07	5.31737E+07		-1.6	20
Chlordane-gamma	A	0.100	0.102	5.527518E+07	5.62493E+07		1.8	20
Chlordane-alpha	A	0.100	0.101	5.296272E+07	5.33927E+07		0.8	20
4,4′-DDE	A	0.100	0.0994	5.244698E+07	5.21543E+07		-0.6	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.00354E+07		0.6	20
Dieldrin	A	0.100	0.0998	5.436507E+07	5.4236E+07		-0.2	20
Endrin	A	0.100	0.103	4.627937E+07	4.76863E+07		3.0	20
4,4′-DDD	A	0.100	0.101	4.00135E+07	4.02511E+07		0.6	20
Endosulfan II	A	0.100	0.0995	4.442927E+07	4.42105E+07		-0.5	20
4,4′-DDT	A	0.100	0.100	4.164772E+07	4.18581E+07		0.5	20
Endrin aldehyde	A	0.100	0.103	3.13612E+07	3.2394E+07		3.3	20
Methoxychlor	A	0.100	0.0915	2.117353E+07	1.93667E+07		-8.5	20
Endosulfan sulfate	A	0.100	0.103	3.673694E+07	3.77282E+07		2.7	20
Endrin ketone	A	0.100	0.0984	4.568736E+07	4.49701E+07		-1.6	20
alpha-BHC [2C]	A	0.100	0.109	7.552835E+07	8.25105E+07		9.2	20
gamma-BHC [2C]	A	0.100	0.110	6.719113E+07	7.3573E+07		9.5	20
beta-BHC [2C]	A	0.100	0.114	2.472905E+07	2.81749E+07		13.9	20
delta-BHC [2C]	A	0.100	0.114	5.850208E+07	6.65008E+07		13.7	20
Heptachlor [2C]	A	0.100	0.105	6.67268E+07	7.01776E+07		5.2	20
Aldrin [2C]	A	0.100	0.107	6.357242E+07	6.78567E+07		6.7	20
Heptachlor epoxide [2C]	A	0.100	0.103	5.626251E+07	5.77994E+07		2.7	20
Chlordane-gamma [2C]	A	0.100	0.107	5.722595E+07	6.14617E+07		7.4	20
Chlordane-alpha [2C]	A	0.100	0.105	5.472749E+07	5.75381E+07		5.1	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB019-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV5	Injection Time:	20:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.106	5.341989E+07	5.67409E+07		6.2	20
Endosulfan I [2C]	A	0.100	0.104	5.087841E+07	5.29661E+07		4.1	20
Dieldrin [2C]	A	0.100	0.105	5.608619E+07	5.86404E+07		4.6	20
Endrin [2C]	A	0.100	0.107	4.605028E+07	4.9297E+07		7.1	20
4,4'-DDD [2C]	A	0.100	0.105	4.157866E+07	4.35631E+07		4.8	20
Endosulfan II [2C]	A	0.100	0.104	4.58875E+07	4.77632E+07		4.1	20
4,4'-DDT [2C]	A	0.100	0.106	4.184652E+07	4.43489E+07		6.0	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.4965E+07		8.2	20
Methoxychlor [2C]	A	0.100	0.0961	2.018515E+07	1.93955E+07		-3.9	20
Endosulfan sulfate [2C]	A	0.100	0.107	3.836149E+07	4.11821E+07		7.4	20
Endrin ketone [2C]	A	0.100	0.102	4.596086E+07	4.69054E+07		2.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00193	Injection Date:	01/15/07
Lab Sample ID:	BA00193-CCV1	Injection Time:	17:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.103	7.280474E+07	7.48486E+07		2.8	20
gamma-BHC	A	0.100	0.103	6.465721E+07	6.6482E+07		2.8	20
beta-BHC	A	0.100	0.104	2.323065E+07	2.40776E+07		3.6	20
delta-BHC	A	0.100	0.105	5.66961E+07	5.95206E+07		5.0	20
Heptachlor	A	0.100	0.0998	6.414063E+07	6.4028E+07		-0.2	20
Aldrin	A	0.100	0.101	6.149162E+07	6.22645E+07		1.3	20
Heptachlor epoxide	A	0.100	0.101	5.405995E+07	5.44996E+07		0.8	20
Chlordane-gamma	A	0.100	0.101	5.527518E+07	5.58963E+07		1.1	20
Chlordane-alpha	A	0.100	0.100	5.296272E+07	5.31183E+07		0.3	20
4,4′-DDE	A	0.100	0.101	5.244698E+07	5.27908E+07		0.7	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.03731E+07		1.3	20
Dieldrin	A	0.100	0.101	5.436507E+07	5.48653E+07		0.9	20
Endrin	A	0.100	0.0977	4.627937E+07	4.52094E+07		-2.3	20
4,4′-DDD	A	0.100	0.106	4.00135E+07	4.22671E+07		5.6	20
Endosulfan II	A	0.100	0.102	4.442927E+07	4.53361E+07		2.0	20
4,4′-DDT	A	0.100	0.102	4.164772E+07	4.25243E+07		2.1	20
Endrin aldehyde	A	0.100	0.112	3.13612E+07	3.52687E+07		12.5	20
Methoxychlor	A	0.100	0.0970	2.117353E+07	2.05362E+07		-3.0	20
Endosulfan sulfate	A	0.100	0.108	3.673694E+07	3.95729E+07		7.7	20
Endrin ketone	A	0.100	0.104	4.568736E+07	4.75972E+07		4.2	20
alpha-BHC [2C]	A	0.100	0.0972	7.552835E+07	7.34488E+07		-2.8	20
gamma-BHC [2C]	A	0.100	0.0968	6.719113E+07	6.50418E+07		-3.2	20
beta-BHC [2C]	A	0.100	0.0990	2.472905E+07	2.44847E+07		-1.0	20
delta-BHC [2C]	A	0.100	0.0988	5.850208E+07	5.78244E+07		-1.2	20
Heptachlor [2C]	A	0.100	0.0972	6.67268E+07	6.48303E+07		-2.8	20
Aldrin [2C]	A	0.100	0.0961	6.357242E+07	6.10751E+07		-3.9	20
Heptachlor epoxide [2C]	A	0.100	0.0956	5.626251E+07	5.3794E+07		-4.4	20
Chlordane-gamma [2C]	A	0.100	0.0959	5.722595E+07	5.48961E+07		-4.1	20
Chlordane-alpha [2C]	A	0.100	0.0947	5.472749E+07	5.18064E+07		-5.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00193	Injection Date:	01/15/07
Lab Sample ID:	BA00193-CCV1	Injection Time:	17:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0975	5.341989E+07	5.20644E+07		-2.5	20
Endosulfan I [2C]	A	0.100	0.0963	5.087841E+07	4.89886E+07		-3.7	20
Dieldrin [2C]	A	0.100	0.0976	5.608619E+07	5.47306E+07		-2.4	20
Endrin [2C]	A	0.100	0.0943	4.605028E+07	4.34421E+07		-5.7	20
4,4'-DDD [2C]	A	0.100	0.0991	4.157866E+07	4.12019E+07		-0.9	20
Endosulfan II [2C]	A	0.100	0.0982	4.58875E+07	4.50624E+07		-1.8	20
4,4'-DDT [2C]	A	0.100	0.0969	4.184652E+07	4.05507E+07		-3.1	20
Endrin aldehyde [2C]	A	0.100	0.107	3.232817E+07	3.45299E+07		6.8	20
Methoxychlor [2C]	A	0.100	0.0983	2.018515E+07	1.98439E+07		-1.7	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.836149E+07	3.93352E+07		2.5	20
Endrin ketone [2C]	A	0.100	0.101	4.596086E+07	4.64421E+07		1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00193	Injection Date:	01/15/07
Lab Sample ID:	BA00193-CCV2	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.107	7.280474E+07	7.78078E+07		6.9	20
gamma-BHC	A	0.100	0.107	6.465721E+07	6.91035E+07		6.9	20
beta-BHC	A	0.100	0.110	2.323065E+07	2.55084E+07		9.8	20
delta-BHC	A	0.100	0.109	5.66961E+07	6.17554E+07		8.9	20
Heptachlor	A	0.100	0.102	6.414063E+07	6.54397E+07		2.0	20
Aldrin	A	0.100	0.104	6.149162E+07	6.38443E+07		3.8	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.50908E+07		1.9	20
Chlordane-gamma	A	0.100	0.104	5.527518E+07	5.75109E+07		4.0	20
Chlordane-alpha	A	0.100	0.103	5.296272E+07	5.47599E+07		3.4	20
4,4′-DDE	A	0.100	0.102	5.244698E+07	5.37175E+07		2.4	20
Endosulfan I	A	0.100	0.104	4.972951E+07	5.19852E+07		4.5	20
Dieldrin	A	0.100	0.102	5.436507E+07	5.51876E+07		1.5	20
Endrin	A	0.100	0.107	4.627937E+07	4.94466E+07		6.8	20
4,4′-DDD	A	0.100	0.106	4.00135E+07	4.25645E+07		6.4	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.5894E+07		3.3	20
4,4′-DDT	A	0.100	0.103	4.164772E+07	4.29415E+07		3.1	20
Endrin aldehyde	A	0.100	0.106	3.13612E+07	3.31916E+07		5.8	20
Methoxychlor	A	0.100	0.0957	2.117353E+07	2.02685E+07		-4.3	20
Endosulfan sulfate	A	0.100	0.108	3.673694E+07	3.96956E+07		8.1	20
Endrin ketone	A	0.100	0.102	4.568736E+07	4.6758E+07		2.3	20
alpha-BHC [2C]	A	0.100	0.104	7.552835E+07	7.84925E+07		3.9	20
gamma-BHC [2C]	A	0.100	0.103	6.719113E+07	6.93927E+07		3.3	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.67484E+07		8.2	20
delta-BHC [2C]	A	0.100	0.109	5.850208E+07	6.38122E+07		9.1	20
Heptachlor [2C]	A	0.100	0.101	6.67268E+07	6.74725E+07		1.1	20
Aldrin [2C]	A	0.100	0.102	6.357242E+07	6.4905E+07		2.1	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.6665E+07		0.7	20
Chlordane-gamma [2C]	A	0.100	0.103	5.722595E+07	5.88478E+07		2.8	20
Chlordane-alpha [2C]	A	0.100	0.102	5.472749E+07	5.59844E+07		2.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00193	Injection Date:	01/15/07
Lab Sample ID:	BA00193-CCV2	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.103	5.341989E+07	5.48307E+07		2.6	20
Endosulfan I [2C]	A	0.100	0.103	5.087841E+07	5.23499E+07		2.9	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.71103E+07		1.8	20
Endrin [2C]	A	0.100	0.107	4.605028E+07	4.9115E+07		6.7	20
4,4'-DDD [2C]	A	0.100	0.104	4.157866E+07	4.30454E+07		3.5	20
Endosulfan II [2C]	A	0.100	0.102	4.58875E+07	4.6853E+07		2.1	20
4,4'-DDT [2C]	A	0.100	0.0965	4.184652E+07	4.03994E+07		-3.5	20
Endrin aldehyde [2C]	A	0.100	0.104	3.232817E+07	3.34619E+07		3.5	20
Methoxychlor [2C]	A	0.100	0.0967	2.018515E+07	1.95143E+07		-3.3	20
Endosulfan sulfate [2C]	A	0.100	0.106	3.836149E+07	4.06163E+07		5.9	20
Endrin ketone [2C]	A	0.100	0.101	4.596086E+07	4.63722E+07		0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00089	Instrument:	JSVGCECD2
Calibration:	0612008		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.16477[illegible]2E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00091-IBL3	9A5B001A-0	01/05/07 12:56
Instrument Blank	BA00091-IBL3	9A5A001A-0	01/05/07 12:56
Performance Mix	BA00091-PEM3	9A5A002A-0	01/05/07 14:05
Performance Mix	BA00091-PEM3	9A5B002A-0	01/05/07 14:05
Instrument Blank	BA00091-IBL7	9AJB001B-0	01/15/07 16:21
Instrument Blank	BA00091-IBL7	9AJA001B-0	01/15/07 16:21
Performance Mix	BA00091-PEM7	9AJB002B-0	01/15/07 16:47
Performance Mix	BA00091-PEM7	9AJA002B-0	01/15/07 16:47
Calibration Check	BA00091-CCVI	9AJB003B-0	01/15/07 17:12
Calibration Check	BA00091-CCVI	9AJA003B-0	01/15/07 17:12
JAX47-SB089-05-113006	B610372-02RE2	9AJA008-0	01/15/07 19:21
JAX47-SB089-05-113006	B610372-02RE2	9AJB008-0	01/15/07 19:21
JAX47-SB098-01-113006	B610372-05RE1	9AJA009-0	01/15/07 19:47
JAX47-SB098-01-113006	B610372-05RE1	9AJB009-0	01/15/07 19:47
JAX47-SB098-05-113006	B610372-06RE1	9AJB010-0	01/15/07 20:13
JAX47-SB098-05-113006	B610372-06RE1	9AJA010-0	01/15/07 20:13
Calibration Check	BA00091-CCVJ	9AJA013-0	01/15/07 21:31
Calibration Check	BA00091-CCVJ	9AJB013-0	01/15/07 21:31
Calibration Check	BA00091-CCVK	9AJB023-0	01/16/07 01:49
Calibration Check	BA00091-CCVK	9AJA023-0	01/16/07 01:49
JAX47-SB089-02-113006	B610372-01RE3	9AJA025-0	01/16/07 02:41
JAX47-SB089-02-113006	B610372-01RE3	9AJB025-0	01/16/07 02:41
Calibration Check	BA00091-CCVL	9AJA026-0	01/16/07 03:07
Calibration Check	BA00091-CCVL	9AJB026-0	01/16/07 03:07
Instrument Blank	BA00091-IBL1	9LHA001-0	12/13/06 12:27
Instrument Blank	BA00091-IBL1	9LHB001-0	12/13/06 12:27
Performance Mix	BA00091-PEM1	9LHB035-0	12/14/06 03:21
Performance Mix	BA00091-PEM1	9LHA035-0	12/14/06 03:21
Calibration Check	BA00091-CCV1	9LHA036-0	12/14/06 03:47
Calibration Check	BA00091-CCV1	9LHB036-0	12/14/06 03:47
Blank	6L07024-BLK1	9LHB037-0	12/14/06 04:13
Blank	6L07024-BLK1	9LHA037-0	12/14/06 04:13

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	6L07024-BS1	9LHB038-0	12/14/06 04:39
LCS	6L07024-BS1	9LHA038-0	12/14/06 04:39
JAX47-SB089-02-113006	6L07024-MS1	9LHA039-0	12/14/06 05:05
JAX47-SB089-02-113006	6L07024-MS1	9LHB039-0	12/14/06 05:05
JAX47-SB089-02-113006	6L07024-MSD1	9LHA040-0	12/14/06 05:31
JAX47-SB089-02-113006	6L07024-MSD1	9LHB040-0	12/14/06 05:31
Calibration Check	BA00091-CCV2	9LHB047-0	12/14/06 08:33
Calibration Check	BA00091-CCV2	9LHA047-0	12/14/06 08:33
Instrument Blank	BA00091-IBL2	9LQB020-0	12/22/06 20:51
Instrument Blank	BA00091-IBL2	9LQA020-0	12/22/06 20:51
Performance Mix	BA00091-PEM2	9LQB021-0	12/22/06 21:17
Performance Mix	BA00091-PEM2	9LQA021-0	12/22/06 21:17
Calibration Check	BA00091-CCV5	9LQB044-0	12/23/06 07:11
Calibration Check	BA00091-CCV5	9LQA044-0	12/23/06 07:11
JAX47-SB089-02-113006	B610372-01	9LQA045-0	12/23/06 07:37
JAX47-SB089-02-113006	B610372-01	9LQB045-0	12/23/06 07:37
JAX47-SB089-05-113006	B610372-02	9LQA046-0	12/23/06 08:02
JAX47-SB089-05-113006	B610372-02	9LQB046-0	12/23/06 08:02
JAX47-SB096-01-113006	B610372-03	9LQA047-0	12/23/06 08:28
JAX47-SB096-01-113006	B610372-03	9LQB047-0	12/23/06 08:28
JAX47-SB098-01-113006	B610372-05	9LQB049-0	12/23/06 09:20
JAX47-SB098-01-113006	B610372-05	9LQA049-0	12/23/06 09:20
JAX47-SB098-05-113006	B610372-06	9LQA050-0	12/23/06 09:46
JAX47-SB098-05-113006	B610372-06	9LQB050-0	12/23/06 09:46
Calibration Check	BA00091-CCV6	9LQA051-0	12/23/06 10:12
Calibration Check	BA00091-CCV6	9LQB051-0	12/23/06 10:12
Instrument Blank	BA00091-IBL4	9LRA001A-0	12/23/06 12:25
Instrument Blank	BA00091-IBL4	9LRB001A-0	12/23/06 12:25
Performance Mix	BA00091-PEM4	9LRB002A-0	12/23/06 12:51
Performance Mix	BA00091-PEM4	9LRA002A-0	12/23/06 12:51
Calibration Check	BA00091-CCV9	9LRA003A-0	12/23/06 13:17
Calibration Check	BA00091-CCV9	9LRB003A-0	12/23/06 13:17

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB096-05-113006	B610372-04	9LRA006-0	12/23/06 14:34
JAX47-SB096-05-113006	B610372-04	9LRB006-0	12/23/06 14:34
Calibration Check	BA00091-CCVA	9LRB007-0	12/23/06 15:00
Calibration Check	BA00091-CCVA	9LRA007-0	12/23/06 15:00
Calibration Check	BA00091-CCVB	9LRB018-0	12/23/06 19:44
Calibration Check	BA00091-CCVB	9LRA018-0	12/23/06 19:44
JAX47-SB096-01-113006	B610372-03RE2	9LRB019-0	12/23/06 20:10
JAX47-SB096-01-113006	B610372-03RE2	9LRA019-0	12/23/06 20:10
JAX47-SB089-02-113006	B610372-01RE2	9LRA020-0	12/23/06 20:36
JAX47-SB089-02-113006	B610372-01RE2	9LRB020-0	12/23/06 20:36
JAX47-SB096-01-113006	B610372-03RE1	9LRA022-0	12/23/06 21:27
JAX47-SB096-01-113006	B610372-03RE1	9LRB022-0	12/23/06 21:27
JAX47-SB089-02-113006	B610372-01RE1	9LRB023-0	12/23/06 21:53
JAX47-SB089-02-113006	B610372-01RE1	9LRA023-0	12/23/06 21:53
JAX47-SB089-05-113006	B610372-02RE1	9LRA024-0	12/23/06 22:19
JAX47-SB089-05-113006	B610372-02RE1	9LRB024-0	12/23/06 22:19
Calibration Check	BA00091-CCVC	9LRB025-0	12/23/06 22:45
Calibration Check	BA00091-CCVC	9LRA025-0	12/23/06 22:45
Instrument Blank	BA00091-IBL5	9LUB022-0	12/26/06 21:01
Instrument Blank	BA00091-IBL5	9LUA022-0	12/26/06 21:01
Performance Mix	BA00091-PEM5	9LUA023-0	12/26/06 21:27
Performance Mix	BA00091-PEM5	9LUB023-0	12/26/06 21:27
Calibration Check	BA00091-CCVD	9LUA024-0	12/26/06 21:53
Calibration Check	BA00091-CCVD	9LUB024-0	12/26/06 21:53
JAX47-SB096-05-113006	B610372-04RE1	9LUB025-0	12/26/06 22:18
JAX47-SB096-05-113006	B610372-04RE1	9LUA025-0	12/26/06 22:18
Calibration Check	BA00091-CCVE	9LUB029-0	12/27/06 00:02
Calibration Check	BA00091-CCVE	9LUA029-0	12/27/06 00:02
Instrument Blank	BA00091-IBL6	9LVA001-0	12/27/06 09:54
Instrument Blank	BA00091-IBL6	9LVB001-0	12/27/06 09:54
Performance Mix	BA00091-PEM6	9LVA002-0	12/27/06 10:20
Performance Mix	BA00091-PEM6	9LVB002-0	12/27/06 10:20

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00091	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	BA00091-CCVF	9LVA003-0	12/27/06 10:46
Calibration Check	BA00091-CCVF	9LVB003-0	12/27/06 10:46
JAX47-SB096-01-113006	B610372-03RE3	9LVA007-0	12/27/06 13:04
JAX47-SB096-01-113006	B610372-03RE3	9LVB007-0	12/27/06 13:04
Calibration Check	BA00091-CCVG	9LVA012-0	12/27/06 15:13
Calibration Check	BA00091-CCVG	9LVB012-0	12/27/06 15:13

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00093	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00093-PEM1	9A3B015-0	01/03/07 17:11
Performance Mix	BA00093-PEM1	9A3A015-0	01/03/07 17:11
Performance Mix	BA00093-PEM2	9LPB002-0	12/21/06 13:34
Performance Mix	BA00093-PEM2	9LPA002-0	12/21/06 13:34
Performance Mix	BA00093-PEM3	9LQB021-0	12/22/06 21:17
Performance Mix	BA00093-PEM3	9LQA021-0	12/22/06 21:17
Performance Mix	BA00093-PEM4	9LUB023-0	12/26/06 21:27
Performance Mix	BA00093-PEM4	9LUA023-0	12/26/06 21:27
Performance Mix	BA00093-PEM5	9LVB002-0	12/27/06 10:20
Performance Mix	BA00093-PEM5	9LVA002-0	12/27/06 10:20

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00094	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00094-IBL4	9A4B001-0	01/04/07 12:07
Instrument Blank	BA00094-IBL4	9A4A001-0	01/04/07 12:07
Performance Mix	BA00094-PEM4	9A4A002-0	01/04/07 12:33
Performance Mix	BA00094-PEM4	9A4B002-0	01/04/07 12:33
Instrument Blank	BA00094-IBL5	9AMB001-0	01/18/07 10:54
Instrument Blank	BA00094-IBL5	9AMA001-0	01/18/07 10:54
Performance Mix	BA00094-PEM5	9AMB002-0	01/18/07 11:20
Performance Mix	BA00094-PEM5	9AMA002-0	01/18/07 11:20
Calibration Check	BA00094-CCVA	9AMB003-0	01/18/07 11:45
Calibration Check	BA00094-CCVA	9AMA003-0	01/18/07 11:45
Calibration Check	BA00094-CCVB	9AMA007-0	01/18/07 13:54
Calibration Check	BA00094-CCVB	9AMB007-0	01/18/07 13:54
Instrument Blank	BA00094-IBL1	9LJA001A-0	12/15/06 17:27
Instrument Blank	BA00094-IBL1	9LJB001A-0	12/15/06 17:27
Performance Mix	BA00094-PEM1	9LJB002A-0	12/15/06 18:08
Performance Mix	BA00094-PEM1	9LJA002A-0	12/15/06 18:08
Calibration Check	BA00094-CCV1	9LJA003B-0	12/15/06 18:34
Calibration Check	BA00094-CCV1	9LJB003B-0	12/15/06 18:34
Blank	6L13017-BLK1	9LJB004-0	12/15/06 19:00
Blank	6L13017-BLK1	9LJA004-0	12/15/06 19:00
LCS	6L13017-BS1	9LJB005-0	12/15/06 19:25
LCS	6L13017-BS1	9LJA005-0	12/15/06 19:25
JAX47-SB100-01-113006	6L13017-MS1	9LJA006-0	12/15/06 19:51
JAX47-SB100-01-113006	6L13017-MS1	9LJB006-0	12/15/06 19:51
JAX47-SB100-01-113006	6L13017-MSD1	9LJB007-0	12/15/06 20:17
JAX47-SB100-01-113006	6L13017-MSD1	9LJA007-0	12/15/06 20:17
JAX47-SB113-01-112906	B610309-01	9LJA008-0	12/15/06 20:43
JAX47-SB113-01-112906	B610309-01	9LJB008-0	12/15/06 20:43
JAX47-SB113-06-112906	B610309-02	9LJB009-0	12/15/06 21:09
JAX47-SB113-06-112906	B610309-02	9LJA009-0	12/15/06 21:09
Calibration Check	BA00094-CCV2	9LJB014-0	12/15/06 23:19
Calibration Check	BA00094-CCV2	9LJA014-0	12/15/06 23:19

not in SDG

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00094	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00094-IBL2	9LPB001-0	12/21/06 13:08
Instrument Blank	BA00094-IBL2	9LPA001-0	12/21/06 13:08
Performance Mix	BA00094-PEM2	9LPA002-0	12/21/06 13:34
Performance Mix	BA00094-PEM2	9LPB002-0	12/21/06 13:34
Instrument Blank	BA00094-IBL3	9LQA001-0	12/22/06 10:49
Instrument Blank	BA00094-IBL3	9LQB001-0	12/22/06 10:49
Performance Mix	BA00094-PEM3	9LQA002-0	12/22/06 11:14
Performance Mix	BA00094-PEM3	9LQB002-0	12/22/06 11:14

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00107-IBL1	9LOB001-0	12/20/06 10:39
Instrument Blank	BA00107-IBL1	9LOA001-0	12/20/06 10:39
Performance Mix	BA00107-PEM1	9LOB002A-0	12/20/06 11:32
Performance Mix	BA00107-PEM1	9LOA002A-0	12/20/06 11:32
Calibration Check	BA00107-CCV1	9LOA003-0	12/20/06 11:59
Calibration Check	BA00107-CCV1	9LOB003-0	12/20/06 11:59
LCS	6L14027-BS1	9LOB005-0	12/20/06 12:50
LCS	6L14027-BS1	9LOA005-0	12/20/06 12:50
Blank	6L14027-BLK1	9LOA006-0	12/20/06 13:22
Blank	6L14027-BLK1	9LOB006-0	12/20/06 13:22
JAX47-SB099-05-113006	B610372-08RE1	9LOB007-0	12/20/06 13:48
JAX47-SB099-05-113006	B610372-08RE1	9LOA007-0	12/20/06 13:48
JAX47-SB099-01-113006	B610372-07RE1	9LOA012-0	12/20/06 15:57
JAX47-SB099-01-113006	B610372-07RE1	9LOB012-0	12/20/06 15:57
Calibration Check	BA00107-CCV2	9LOA013-0	12/20/06 16:23
Calibration Check	BA00107-CCV2	9LOB013-0	12/20/06 16:23
JAX47-SB110-01-113006	6L14027-MS1	9LOA015-0	12/20/06 17:14
JAX47-SB110-01-113006	6L14027-MS1	9LOB015-0	12/20/06 17:14
JAX47-SB110-01-113006	6L14027-MSD1	9LOB016-0	12/20/06 17:40
JAX47-SB110-01-113006	6L14027-MSD1	9LOA016-0	12/20/06 17:40
Calibration Check	BA00107-CCV3	9LOA017-0	12/20/06 18:06
Calibration Check	BA00107-CCV3	9LOB017-0	12/20/06 18:06
Instrument Blank	BA00107-IBL2	9LQA001-0	12/22/06 10:49
Instrument Blank	BA00107-IBL2	9LQB001-0	12/22/06 10:49
Performance Mix	BA00107-PEM2	9LQA002-0	12/22/06 11:14
Performance Mix	BA00107-PEM2	9LQB002-0	12/22/06 11:14
Calibration Check	BA00107-CCV4	9LQA012-0	12/22/06 16:24
Calibration Check	BA00107-CCV4	9LQB012-0	12/22/06 16:24
JAX47-SB099-01-113006	B610372-07RE2	9LQB016-0	12/22/06 18:33
JAX47-SB099-01-113006	B610372-07RE2	9LQA016-0	12/22/06 18:33
JAX47-SB099-01-113006	B610372-07RE3	9LQA018-0	12/22/06 19:51
JAX47-SB099-01-113006	B610372-07RE3	9LQB018-0	12/22/06 19:51

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	BA00107-CCV5	9LQB019-0	12/22/06 20:17
Calibration Check	BA00107-CCV5	9LQA019-0	12/22/06 20:17

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00193	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00193-IBL1	9AJB001B-0	01/15/07 16:21
Instrument Blank	BA00193-IBL1	9AJA001B-0	01/15/07 16:21
Performance Mix	BA00193-PEM1	9AJB002B-0	01/15/07 16:47
Performance Mix	BA00193-PEM1	9AJA002B-0	01/15/07 16:47
Calibration Check	BA00193-CCV1	9AJB003B-0	01/15/07 17:12
Calibration Check	BA00193-CCV1	9AJA003B-0	01/15/07 17:12
JAX47-SB113-01-112906	B610309-01RE1	9AJB004B-0	01/15/07 17:38
JAX47-SB113-01-112906	B610309-01RE1	9AJA004B-0	01/15/07 17:38
JAX47-SB113-06-112906	B610309-02RE1	9AJB005A-0	01/15/07 18:04
JAX47-SB113-06-112906	B610309-02RE1	9AJA005A-0	01/15/07 18:04
Calibration Check	BA00193-CCV2	9AJB013-0	01/15/07 21:31
Calibration Check	BA00193-CCV2	9AJA013-0	01/15/07 21:31

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB113-01-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610309-01RE1	File ID:	9AJA004B-0
Sampled:	11/29/06 09:02	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 17:38
Solids:	70.37	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00193		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	1	12.406	12.78071	0.375		0.099	5.5
4,4'-DDT	* 2	12.426	12.77157	0.346		0.094	5.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB113-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610309-02	File ID:	9LJA009-0
Sampled:	11/29/06 09:15	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 21:09
Solids:	75.61	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.789	8.816429	0.0274		0.00044	10.0
delta-BHC	* 1	9.095	9.124286	0.0293		0.00022	60.0
Chlordane-gamma	* 1	11.152	11.14771	0.00429		0.0021	221.3
Chlordane-alpha	1	11.317	11.34971	0.0327		0.0079	1276.9
4,4'-DDE	* 1	11.456	11.48286	0.0269		0.0036	3.7
Dieldrin	* 1	11.892	11.91886	0.0269		0.0025	1.8
4,4'-DDD	* 1	12.35	12.37786	0.0279		0.0061	6.5
beta-BHC	2	8.663	8.687429	0.0244		0.00048	10.0
delta-BHC	2	9.153	9.180286	0.0273		0.00035	60.0
Chlordane-gamma	2	10.947	10.97329	0.0263		0.0067	221.3
Chlordane-alpha	* 2	11.199	11.19143	0.00757		0.00057	1276.9
4,4'-DDE	2	11.451	11.47543	0.0244		0.0037	3.7
Endosulfan I	2	11.307	11.26443	0.0426		0.0030	0.0
Dieldrin	2	11.649	11.67429	0.0253		0.0025	1.8
4,4'-DDD	2	12.301	12.32514	0.0241		0.0065	6.5
Endrin aldehyde	2	12.969	12.927	0.042		0.00066	0.0
2,4,5,6-TCMX	* 1	6.819	6.848286	0.0293		0.0381	0.7
2,4,5,6-TCMX	2	6.538	6.564286	0.0263		0.0384	0.7
DBC	* 1	14.077	14.10214	0.0251		0.0393	0.8
DBC	2	13.886	13.90914	0.0231		0.0390	0.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB113-06-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610309-02RE1	File ID:	9AJA005A-0
Sampled:	11/29/06 09:15	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 18:04
Solids:	75.61	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00193		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.407	12.78071	0.374		0.0034	1.3
4,4'-DDT	2	12.426	12.77157	0.346		0.0034	1.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-01	File ID:	9LQA045-0
Sampled:	11/30/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 07:37
Solids:	95.22	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.877	8.023286	0.146		0.00091	130.8
gamma-BHC	* 1	8.482	8.628	0.146		0.0030	19.2
delta-BHC	* 1	9.044	9.124286	0.0803		0.0015	1188.6
Heptachlor epoxide	* 1	10.845	10.95643	0.111		0.042	318.3
Endosulfan II	1	12.515	12.60057	0.0856		0.014	85.1
Endosulfan sulfate	* 1	13.793	13.853	0.06		0.00095	55.6
Endrin ketone	* 1	14.158	14.25229	0.0943		0.0030	118.8
alpha-BHC	2	7.76	7.838	0.078		0.0021	130.8
gamma-BHC	2	8.408	8.497428	0.0894		0.0026	19.2
delta-BHC	2	9.105	9.180286	0.0753		0.020	1188.6
Heptachlor epoxide	2	10.598	10.67843	0.0804		0.010	318.3
Endosulfan II	* 2	12.324	12.43571	0.112		0.0078	85.1
Endosulfan sulfate	2	13.197	13.32643	0.129		0.0015	55.6
Endrin ketone	2	13.954	14.08214	0.128		0.0065	118.8
2,4,5,6-TCMX	* 1	6.7	6.848286	0.148		0.0289	2.6
2,4,5,6-TCMX	2	6.432	6.564286	0.132		0.0282	2.6
DBC	* 1	14.015	14.10214	0.0871		0.00357	325.0
DBC	2	13.831	13.90914	0.0781		0.000840	325.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-01RE1	File ID:	9LRA023-0
Sampled:	11/30/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 21:53
Solids:	95.22	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m,32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m,32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.655	8.816429	0.161		0.11	4.4
Chlordane-gamma	* 1	10.985	11.14771	0.163		0.71	0.6
Chlordane-alpha	* 1	11.185	11.34971	0.165		0.54	16.0
4,4'-DDE	* 1	11.326	11.48286	0.157		0.097	5.0
Dieldrin	* 1	11.757	11.91886	0.162		0.16	14.0
4,4'-DDD	* 1	12.219	12.37786	0.159		0.26	82.6
beta-BHC	2	8.545	8.687429	0.142		0.12	4.4
Chlordane-gamma	2	10.826	10.97329	0.147		0.71	0.6
Chlordane-alpha	2	11.048	11.19143	0.143		0.47	16.0
4,4'-DDE	2	11.337	11.47543	0.138		0.10	5.0
Dieldrin	2	11.526	11.67429	0.148		0.18	14.0
4,4'-DDD	2	12.182	12.32514	0.143		0.48	82.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-01RE2	File ID:	9LRA020-0
Sampled:	11/30/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 20:36
Solids:	95.22	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.622	12.78071	0.159		5.5	0.9
4,4'-DDT	2	12.63	12.77157	0.142		5.6	0.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-01RE3	File ID:	9AJA025-0
Sampled:	11/30/06 14:00	Prepared:	12/07/06 16:27	Analyzed:	01/16/07 02:41
Solids:	95.22	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.078	9.463429	0.385		0.015	1.1
Heptachlor	2	8.882	9.237571	0.356		0.015	1.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02	File ID:	9LQA046-0
Sampled:	11/30/06 14:10	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 08:02
Solids:	95.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.877	8.023286	0.146		0.0028	0.0
gamma-BHC	* 1	8.481	8.628	0.147		0.0072	840.9
Heptachlor epoxide	* 1	10.81	10.95643	0.146		0.0011	0.0
Chlordane-gamma	* 1	11.002	11.14771	0.146		0.0064	21.2
Chlordane-alpha	* 1	11.203	11.34971	0.147		0.018	2440.0
Dieldrin	* 1	11.826	11.91886	0.0929		0.00042	8.3
Endosulfan II	* 1	12.529	12.60057	0.0716		0.00031	0.0
Endrin ketone	* 1	14.159	14.25229	0.0933		0.00091	0.0
alpha-BHC	2	7.705	7.838	0.133		0.0028	0.0
gamma-BHC	2	8.407	8.497428	0.0904		0.00077	840.9
Chlordane-gamma	2	10.84	10.97329	0.133		0.0053	21.2
Chlordane-alpha	2	11.097	11.19143	0.0944		0.00070	2440.0
Dieldrin	2	11.54	11.67429	0.134		0.00045	8.3
Endosulfan sulfate	2	13.243	13.32643	0.0834		0.00028	0.0
2,4,5,6-TCMX	* 1	6.699	6.848286	0.149		0.0307	1.4
2,4,5,6-TCMX	2	6.431	6.564286	0.133		0.0303	1.4
DBC	* 1	14.018	14.10214	0.0841		0.0303	1.2
DBC	2	13.787	13.90914	0.122		0.0306	1.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02RE1	File ID:	9LRA024-0
Sampled:	11/30/06 14:10	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 22:19
Solids:	95.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.656	8.816429	0.16		0.16	5.4
delta-BHC	* 1	8.961	9.124286	0.163		0.23	4.6
beta-BHC	2	8.545	8.687429	0.142		0.17	5.4
delta-BHC	2	9.038	9.180286	0.142		0.25	4.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02RE2	File ID:	9AJA008-0
Sampled:	11/30/06 14:10	Prepared:	12/07/06 16:27	Analyzed:	01/15/07 19:21
Solids:	95.29	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.112	11.48286	0.371		0.0010	0.0
4,4'-DDT	* 1	12.409	12.78071	0.372		0.00084	4.2
4,4'-DDE	2	11.133	11.47543	0.342		0.0010	0.0
4,4'-DDT	2	12.427	12.77157	0.345		0.00087	4.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03	File ID:	9LQA047-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 08:28
Solids:	97.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.876	8.023286	0.147		0.0037	210.1
gamma-BHC	* 1	8.535	8.628	0.093		0.0045	73.7
beta-BHC	* 1	8.675	8.816429	0.141		0.024	2223.3
delta-BHC	* 1	8.978	9.124286	0.146		0.0087	1608.3
Endrin ketone	* 1	14.177	14.25229	0.0753		0.039	232.8
alpha-BHC	2	7.752	7.838	0.086		0.012	210.1
gamma-BHC	2	8.369	8.497428	0.128		0.0026	73.7
beta-BHC	2	8.604	8.687429	0.0834		0.0010	2223.3
delta-BHC	2	9.095	9.180286	0.0853		0.15	1608.3
Endrin ketone	2	13.996	14.08214	0.0861		0.13	232.8
2,4,5,6-TCMX	* 1	6.748	6.848286	0.1		0.00356	574.0
2,4,5,6-TCMX	2	6.435	6.564286	0.129		0.0240	574.0
DBC	* 1	13.979	14.10214	0.123		0.0801	74.3
DBC	2	13.796	13.90914	0.113		0.140	74.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03RE1	File ID:	9LRA022-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 21:27
Solids:	97.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.298	9.463429	0.165		3.4	870.9
Heptachlor epoxide	* 1	10.793	10.95643	0.163		0.74	108.7
Endosulfan I	* 1	11.434	11.55586	0.122		0.15	1751.8
Dieldrin	* 1	11.755	11.91886	0.164		0.59	19.0
Endrin	* 1	12.09	12.26457	0.175		0.15	346.5
Endosulfan II	* 1	12.438	12.60057	0.163		0.13	56.2
Endrin aldehyde	* 1	13.077	13.21929	0.142		0.13	259.5
Methoxychlor	* 1	13.329	13.48543	0.156		0.21	925.0
Endosulfan sulfate	* 1	13.665	13.853	0.188		0.057	73.7
Heptachlor	2	9.088	9.237571	0.15		0.35	870.9
Heptachlor epoxide	2	10.53	10.67843	0.148		0.36	108.7
Endosulfan I	2	11.133	11.26443	0.131		2.7	1751.8
Dieldrin	2	11.524	11.67429	0.15		0.70	19.0
Endrin	2	11.974	12.121	0.147		0.66	346.5
Endosulfan II	2	12.236	12.43571	0.2		0.20	56.2
Endrin aldehyde	2	12.799	12.927	0.128		0.46	259.5
Methoxychlor	2	13.617	13.77371	0.157		0.021	925.0
Endosulfan sulfate	2	13.181	13.32643	0.145		0.033	73.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03RE2	File ID:	9LRA019-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 20:10
Solids:	97.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	10.986	11.14771	0.162		5.9	2.9
Chlordane-alpha	* 1	11.17	11.34971	0.18		4.2	16.5
4,4'-DDE	* 1	11.327	11.48286	0.156		6.1	7.0
4,4'-DDD	* 1	12.219	12.37786	0.159		17	25.6
Chlordane-gamma	2	10.826	10.97329	0.147		6.0	2.9
Chlordane-alpha	2	11.048	11.19143	0.143		5.0	16.5
4,4'-DDE	2	11.338	11.47543	0.137		6.5	7.0
4,4'-DDD	2	12.182	12.32514	0.143		21	25.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03RE3	File ID:	9LVA007-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/27/06 13:04
Solids:	97.30	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.578	12.78071	0.203		2700	2.6
4,4'-DDT	2	12.588	12.77157	0.184		2700	2.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB096-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-04	File ID:	9LRA006-0
Sampled:	11/30/06 14:30	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 14:34
Solids:	96.82	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.298	9.463429	0.165		0.00045	15.4
Chlordane-gamma	* 1	10.985	11.14771	0.163		0.0018	3.9
Chlordane-alpha	* 1	11.183	11.34971	0.167		0.0011	21.2
4,4'-DDE	* 1	11.326	11.48286	0.157		0.0019	0.0
4,4'-DDD	* 1	12.22	12.37786	0.158		0.00090	80.8
Heptachlor	2	9.088	9.237571	0.15		0.00052	15.4
Chlordane-gamma	2	10.825	10.97329	0.148		0.0018	3.9
Chlordane-alpha	2	11.047	11.19143	0.144		0.0014	21.2
4,4'-DDE	2	11.336	11.47543	0.139		0.0019	0.0
4,4'-DDD	2	12.181	12.32514	0.144		0.0016	80.8
2,4,5,6-TCMX	* 1	6.678	6.848286	0.17		0.0285	2.2
2,4,5,6-TCMX	2	6.411	6.564286	0.153		0.0279	2.2
DBC	* 1	13.948	14.10214	0.154		0.0289	2.7
DBC	2	13.773	13.90914	0.136		0.0282	2.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB096-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-04RE1	File ID:	9LUA025-0
Sampled:	11/30/06 14:30	Prepared:	12/07/06 16:27	Analyzed:	12/26/06 22:18
Solids:	96.82	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.578	12.78071	0.203		0.18	1.2
4,4'-DDT	2	12.59	12.77157	0.182		0.18	1.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB098-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-05	File ID:	9LQA049-0
Sampled:	11/30/06 15:11	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 09:20
Solids:	91.89	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.813	10.95643	0.143		0.0017	0.0
Chlordane-gamma	* 1	11.003	11.14771	0.145		0.0029	132.4
Chlordane-alpha	* 1	11.238	11.34971	0.112		0.0027	14.9
Dieldrin	* 1	11.774	11.91886	0.145		0.0010	250.0
Chlordane-gamma	2	10.878	10.97329	0.0953		0.0012	132.4
Chlordane-alpha	2	11.063	11.19143	0.128		0.0031	14.9
Dieldrin	2	11.59	11.67429	0.0843		0.00029	250.0
Endosulfan sulfate	2	13.194	13.32643	0.132		0.00054	0.0
2,4,5,6-TCMX	* 1	6.701	6.848286	0.147		0.0271	0.5
2,4,5,6-TCMX	2	6.433	6.564286	0.131		0.0270	0.5
DBC	* 1	14.013	14.10214	0.0891		0.0285	11.8
DBC	2	13.786	13.90914	0.123		0.0255	11.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB098-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-05RE1	File ID:	9AJA009-0
Sampled:	11/30/06 15:11	Prepared:	12/07/06 16:27	Analyzed:	01/15/07 19:47
Solids:	91.89	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.113	11.48286	0.37		0.028	0.4
4,4'-DDD	* 1	12.003	12.37786	0.375		0.0024	37.3
4,4'-DDT	* 1	12.408	12.78071	0.373		0.064	2.1
4,4'-DDE	2	11.134	11.47543	0.341		0.028	0.4
4,4'-DDD	2	11.981	12.32514	0.344		0.0033	37.3
4,4'-DDT	2	12.428	12.77157	0.344		0.062	2.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB098-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-06	File ID:	9LQA050-0
Sampled:	11/30/06 15:13	Prepared:	12/07/06 16:27	Analyzed:	12/23/06 09:46
Solids:	94.88	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.236	12.37786	0.142		0.00077	4.8
4,4'-DDD	2	12.199	12.32514	0.126		0.00074	4.8
2,4,5,6-TCMX	* 1	6.7	6.848286	0.148		0.0294	0.8
2,4,5,6-TCMX	2	6.433	6.564286	0.131		0.0292	0.8
DBC	* 1	14.02	14.10214	0.0821		0.0290	0.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB098-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-06RE1	File ID:	9AJA010-0
Sampled:	11/30/06 15:13	Prepared:	12/07/06 16:27	Analyzed:	01/15/07 20:13
Solids:	94.88	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L07024	Sequence:	BA00091		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.408	12.78071	0.373		0.0020	0.0
4,4'-DDT	2	12.427	12.77157	0.345		0.0020	0.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB099-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-07RE1	File ID:	9LOA012-0
Sampled:	11/30/06 15:25	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 15:57
Solids:	93.79	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.932	8.023286	0.0913		0.00018	120.0
gamma-BHC	* 1	8.537	8.628	0.091		0.00053	6.7
beta-BHC	1	8.727	8.816429	0.0894		0.0029	76.6
delta-BHC	* 1	9.033	9.124286	0.0913		0.00085	20.0
Heptachlor	* 1	9.374	9.463429	0.0894		0.00085	8.3
Methoxychlor	1	13.406	13.48543	0.0794		0.030	861.8
Endosulfan sulfate	1	13.761	13.853	0.092		0.028	386.5
alpha-BHC	2	7.754	7.838	0.084		0.00039	120.0
gamma-BHC	2	8.413	8.497428	0.0844		0.00057	6.7
beta-BHC	* 2	8.606	8.687429	0.0814		0.0017	76.6
delta-BHC	2	9.099	9.180286	0.0813		0.00071	20.0
Heptachlor	2	9.158	9.237571	0.0796		0.00092	8.3
Aldrin	2	9.69	9.759429	0.0694		0.0032	0.0
Methoxychlor	* 2	13.724	13.77371	0.0497		0.0032	861.8
Endosulfan sulfate	* 2	13.245	13.32643	0.0814		0.0058	386.5
2,4,5,6-TCMX	* 1	6.755	6.848286	0.0933		0.0240	6.6
2,4,5,6-TCMX	2	6.482	6.564286	0.0823		0.0225	6.6
DBC	* 1	14.04	14.10214	0.0621		0.0590	69.4
DBC	2	13.832	13.90914	0.0771		0.0348	69.4

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB099-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-07RE2	File ID:	9LQA016-0
Sampled:	11/30/06 15:25	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 18:33
Solids:	93.79	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.83	10.95643	0.126		0.13	123.8
Chlordane-gamma	* 1	11.018	11.14771	0.13		0.54	11.8
Chlordane-alpha	* 1	11.214	11.34971	0.136		0.61	4.5
Dieldrin	* 1	11.791	11.91886	0.128		0.32	10.4
4,4'-DDD	* 1	12.251	12.37786	0.127		0.28	111.8
Heptachlor epoxide	2	10.562	10.67843	0.116		0.057	123.8
Chlordane-gamma	2	10.856	10.97329	0.117		0.60	11.8
Chlordane-alpha	2	11.078	11.19143	0.113		0.58	4.5
Dieldrin	2	11.556	11.67429	0.118		0.35	10.4
4,4'-DDD	2	12.207	12.32514	0.118		0.60	111.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB099-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-07RE3	File ID:	9LQA018-0
Sampled:	11/30/06 15:25	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 19:51
Solids:	93.79	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.36	11.48286	0.123		2.2	5.9
4,4'-DDT	* 1	12.657	12.78071	0.124		5.1	8.6
4,4'-DDE	2	11.366	11.47543	0.109		2.3	5.9
4,4'-DDT	2	12.661	12.77157	0.111		5.6	8.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB099-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-08RE1	File ID:	9LOA007-0
Sampled:	11/30/06 15:30	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 13:48
Solids:	85.54	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.057	11.14771	0.0907		0.00082	10.5
Chlordane-alpha	* 1	11.246	11.34971	0.104		0.00086	9.1
4,4'-DDE	* 1	11.394	11.48286	0.0889		0.0036	0.0
Dieldrin	* 1	11.827	11.91886	0.0919		0.00035	44.4
4,4'-DDD	* 1	12.287	12.37786	0.0909		0.0014	40.5
4,4'-DDT	* 1	12.693	12.78071	0.0877		0.0085	2.8
Chlordane-gamma	2	10.889	10.97329	0.0843		0.00074	10.5
Chlordane-alpha	2	11.11	11.19143	0.0814		0.00094	9.1
4,4'-DDE	2	11.396	11.47543	0.0794		0.0036	0.0
Dieldrin	2	11.59	11.67429	0.0843		0.00051	44.4
4,4'-DDD	2	12.243	12.32514	0.0821		0.0020	40.5
4,4'-DDT	2	12.692	12.77157	0.0796		0.0082	2.8
2,4,5,6-TCMX	* 1	6.753	6.848286	0.0953		0.0311	5.0
2,4,5,6-TCMX	2	6.48	6.564286	0.0843		0.0296	5.0
DBC	* 1	14.015	14.10214	0.0871		0.0322	3.2
DBC	2	13.831	13.90914	0.0781		0.0312	3.2

* Column used for quantitation

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-008

Lab Sample ID	Client Sample ID
B610372-01	JAX47-SB089-02-113006
B610372-02	JAX47-SB089-05-113006
B610372-03	JAX47-SB096-01-113006
B610372-07	JAX47-SB099-01-113006

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 09:17:13 -05'00'

Christina M. Tompkins
Project Manager

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By: Chuck McG	Date: 11-30-06	Time: 1130	Received By: [illegible]	Date: 11/30/06	Time: 1135
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No: **CTO 0047**	Turn Around Time: **Standard**	Field Ops Leader: **Charles Metz**	Carrier/Waybill No.	Point of Contact: **Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By: **Chuck Metz**	Date: 12/01/2006	Time: 15:50	Received By: **Hand Deliver**	Date: 12/01/2006	Time: 16:50
2. Relinquished By:	Date:	Time:	Received By:	Date: 12/1/06	Time: 16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-008

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB089-02-113006	B610372-01
JAX47-SB089-05-113006	B610372-02
JAX47-SB089-05-113006	B610372-02RE1
JAX47-SB096-01-113006	B610372-03
JAX47-SB096-01-113006	B610372-03RE1
JAX47-SB099-01-113006	B610372-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.25 09:18:13 -05'00'

Name: Christina Tompkins

Date: 01/23/07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-008

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.001	0.05	ug/L
gamma-BHC	0.002	0.05	ug/L
beta-BHC	0.002	0.05	ug/L
delta-BHC	0.001	0.05	ug/L
Heptachlor	0.001	0.05	ug/L
Aldrin	0.002	0.05	ug/L
Heptachlor epoxide	0.001	0.05	ug/L
Chlordane-gamma	0.001	0.05	ug/L
Chlordane-alpha	0.001	0.05	ug/L
4,4′-DDE	0.002	0.05	ug/L
Endosulfan I	0.002	0.05	ug/L
Dieldrin	0.0008	0.05	ug/L
Endrin	0.002	0.05	ug/L
4,4′-DDD	0.0004	0.05	ug/L
Endosulfan II	0.002	0.05	ug/L
4,4′-DDT	0.002	0.05	ug/L
Endrin aldehyde	0.009	0.05	ug/L
Methoxychlor	0.003	0.05	ug/L
Endosulfan sulfate	0.002	0.05	ug/L
Endrin ketone	0.003	0.05	ug/L
Toxaphene	0.05	1	ug/L
alpha-BHC [2C]	0.001	0.05	ug/L
gamma-BHC [2C]	0.002	0.05	ug/L
beta-BHC [2C]	0.002	0.05	ug/L
delta-BHC [2C]	0.001	0.05	ug/L
Heptachlor [2C]	0.001	0.05	ug/L
Aldrin [2C]	0.002	0.05	ug/L
Heptachlor epoxide [2C]	0.001	0.05	ug/L
Chlordane-gamma [2C]	0.001	0.05	ug/L
Chlordane-alpha [2C]	0.001	0.05	ug/L
4,4'-DDE [2C]	0.002	0.05	ug/L
Endosulfan I [2C]	0.002	0.05	ug/L
Dieldrin [2C]	0.0008	0.05	ug/L
Endrin [2C]	0.002	0.05	ug/L
4,4'-DDD [2C]	0.0004	0.05	ug/L
Endosulfan II [2C]	0.002	0.05	ug/L
4,4'-DDT [2C]	0.002	0.05	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-008

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.009	0.05	ug/L
Methoxychlor [2C]	0.003	0.05	ug/L
Endosulfan sulfate [2C]	0.002	0.05	ug/L
Endrin ketone [2C]	0.003	0.05	ug/L
Toxaphene [2C]	0.05	1	ug/L

HOLDING TIME SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB089-02-113006	11/30/06 14:00	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/16/07 14:20	28.00	40.00	
JAX47-SB089-05-113006	11/30/06 14:10	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/16/07 14:46	28.00	40.00	
JAX47-SB089-05-113006	11/30/06 14:10	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/16/07 16:37	28.00	40.00	
JAX47-SB096-01-113006	11/30/06 14:23	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/16/07 15:11	28.00	40.00	
JAX47-SB096-01-113006	11/30/06 14:23	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/16/07 17:08	28.00	40.00	
JAX47-SB099-01-113006	11/30/06 15:25	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/16/07 15:37	28.00	40.00	

* Method 1312 was leached on 12/13/06 ✓

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L21004 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L21004-BLK1	9AKB004-0	12/19/06 18:00	
Blank	6L21004-BLK1	9AKA004-0	12/19/06 18:00	
LCS	6L21004-BS1	9AKB005-0	12/19/06 18:00	
LCS	6L21004-BS1	9AKA005-0	12/19/06 18:00	
JAX47-SB089-02-113006	6L21004-MS1	9AKB006-0	12/19/06 18:00	
JAX47-SB089-02-113006	6L21004-MS1	9AKA006-0	12/19/06 18:00	
JAX47-SB089-02-113006	6L21004-MSD1	9AKA007-0	12/19/06 18:00	
JAX47-SB089-02-113006	6L21004-MSD1	9AKB007-0	12/19/06 18:00	
JAX47-SB089-02-113006	B610372-01	9AKA010-0	12/19/06 18:00	
JAX47-SB089-02-113006	B610372-01	9AKB010-0	12/19/06 18:00	
JAX47-SB089-05-113006	B610372-02	9AKA011-0	12/19/06 18:00	
JAX47-SB089-05-113006	B610372-02	9AKB011-0	12/19/06 18:00	
JAX47-SB089-05-113006	B610372-02RE1	9AKB015-0	12/19/06 18:00	
JAX47-SB089-05-113006	B610372-02RE1	9AKA015-0	12/19/06 18:00	
JAX47-SB096-01-113006	B610372-03	9AKB012-0	12/19/06 18:00	
JAX47-SB096-01-113006	B610372-03	9AKA012-0	12/19/06 18:00	
JAX47-SB096-01-113006	B610372-03RE1	9AKB016-0	12/19/06 18:00	
JAX47-SB096-01-113006	B610372-03RE1	9AKA016-0	12/19/06 18:00	
JAX47-SB099-01-113006	B610372-07	9AKA013-0	12/19/06 18:00	
JAX47-SB099-01-113006	B610372-07	9AKB013-0	12/19/06 18:00	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L21004-BLK1	File ID:	9AKA004-0
Prepared:	12/19/06 18:00	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/16/07 11:45	Instrument:	JSVGCECD2		
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4'-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4'-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4'-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.00	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L21004-BLK1	File ID:	9AKB004-0
Prepared:	12/19/06 18:00	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/16/07 11:45	Instrument:	JSVGCECD2		
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.885	88	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.842	84	25 - 140	
DBC	1.00	0.946	95	30 - 135	
DBC [2C]	1.00	0.923	92	30 - 135	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB089-02-113006

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21004
Laboratory ID: 6L21004-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.00300	0.999	100	60 - 130
gamma-BHC	1.00	0.00900	1.01	100	25 - 135
beta-BHC	1.00	1.31	2.41	109	65 - 125
delta-BHC	1.00	0.00900	1.04	103	45 - 135
Heptachlor	1.00	0.0210	0.938	92	40 - 130
Aldrin	1.00	ND	0.890	89	25 - 140
Heptachlor epoxide	1.00	0.0260	1.14	111	60 - 130
Chlordane-gamma	1.00	0.186	1.98	180 *	60 - 125
Chlordane-alpha	1.00	0.0380	2.20	216 *	65 - 125
4,4′-DDE	1.00	0.0720	1.04	97	35 - 140
Endosulfan I	1.00	ND	0.943	94	50 - 110
Dieldrin	1.00	0.489	1.57	108	60 - 130
Endrin	1.00	ND	1.03	103	55 - 135
4,4′-DDD	1.00	0.0660	1.18	112	25 - 150
Endosulfan II	1.00	ND	0.913	91	30 - 130
4,4′-DDT	1.00	0.701	1.78	108	45 - 140
Endrin aldehyde	1.00	ND	1.02	102	55 - 135
Methoxychlor	1.00	ND	0.919	92	55 - 150
Endosulfan sulfate	1.00	ND	0.995	100	55 - 135
Endrin ketone	1.00	0.0200	1.03	101	75 - 125
alpha-BHC [2C]	1.00	0.00400	0.954	95	60 - 130
gamma-BHC [2C]	1.00	0.00800	0.961	95	25 - 135
beta-BHC [2C]	1.00	1.28	2.26	98	65 - 125
delta-BHC [2C]	1.00	0.0120	0.998	99	45 - 135
Heptachlor [2C]	1.00	0.0250	0.913	89	40 - 130
Aldrin [2C]	1.00	ND	0.877	88	25 - 140
Heptachlor epoxide [2C]	1.00	0.0900	1.06	97	60 - 130
Chlordane-gamma [2C]	1.00	0.820	1.70	88	60 - 125
Chlordane-alpha [2C]	1.00	0.686	1.56	87	65 - 125
4,4'-DDE [2C]	1.00	0.0660	1.00	94	35 - 140
Endosulfan I [2C]	1.00	ND	1.08	108	50 - 110
Dieldrin [2C]	1.00	0.540	1.54	99	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21004	Laboratory ID:	6L21004-MS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	ND	1.01	101	55 - 135
4,4'-DDD [2C]	1.00	0.198	1.31	111	25 - 150
Endosulfan II [2C]	1.00	ND	0.932	93	30 - 130
4,4'-DDT [2C]	1.00	0.678	1.68	101	45 - 140
Endrin aldehyde [2C]	1.00	ND	1.01	101	55 - 135
Methoxychlor [2C]	1.00	ND	0.949	95	55 - 150
Endosulfan sulfate [2C]	1.00	ND	0.967	97	55 - 135
Endrin ketone [2C]	1.00	0.0200	1.01	99	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	1.01	100	0.8	30	60 - 130
gamma-BHC	1.00	1.01	100	0.4	30	25 - 135
beta-BHC	1.00	2.45	113	2	30	65 - 125
delta-BHC	1.00	1.03	102	0.5	30	45 - 135
Heptachlor	1.00	0.939	92	0.1	30	40 - 130
Aldrin	1.00	0.892	89	0.2	30	25 - 140
Heptachlor epoxide	1.00	1.15	113	1	30	60 - 130
Chlordane-gamma	1.00	2.01	182 *	1	30	60 - 125
Chlordane-alpha	1.00	2.25	221 *	2	30	65 - 125
4,4'-DDE	1.00	1.06	98	2	30	35 - 140
Endosulfan I	1.00	0.947	95	0.4	30	50 - 110
Dieldrin	1.00	1.61	112	3	30	60 - 130
Endrin	1.00	1.05	105	2	30	55 - 135
4,4'-DDD	1.00	1.20	114	2	30	25 - 150
Endosulfan II	1.00	0.917	92	0.4	30	30 - 130
4,4'-DDT	1.00	1.82	112	2	30	45 - 140
Endrin aldehyde	1.00	1.03	103	2	30	55 - 135
Methoxychlor	1.00	0.930	93	1	30	55 - 150
Endosulfan sulfate	1.00	0.997	100	0.2	30	55 - 135
Endrin ketone	1.00	1.02	100	0.6	30	75 - 125
alpha-BHC [2C]	1.00	0.958	95	0.4	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21004	Laboratory ID:	6L21004-MSD1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.961	95	0	30	25 - 135
beta-BHC [2C]	1.00	2.29	101	1	30	65 - 125
delta-BHC [2C]	1.00	0.989	98	0.9	30	45 - 135
Heptachlor [2C]	1.00	0.916	89	0.3	30	40 - 130
Aldrin [2C]	1.00	0.881	88	0.5	30	25 - 140
Heptachlor epoxide [2C]	1.00	1.06	98	0.7	30	60 - 130
Chlordane-gamma [2C]	1.00	1.74	92	2	30	60 - 125
Chlordane-alpha [2C]	1.00	1.59	90	2	30	65 - 125
4,4'-DDE [2C]	1.00	1.02	95	1	30	35 - 140
Endosulfan I [2C]	1.00	1.08	108	0.7	30	50 - 110
Dieldrin [2C]	1.00	1.56	102	2	30	60 - 130
Endrin [2C]	1.00	1.02	102	2	30	55 - 135
4,4'-DDD [2C]	1.00	1.30	110	0.5	30	25 - 150
Endosulfan II [2C]	1.00	0.907	91	3	30	30 - 130
4,4'-DDT [2C]	1.00	1.70	102	0.8	30	45 - 140
Endrin aldehyde [2C]	1.00	1.03	103	1	30	55 - 135
Methoxychlor [2C]	1.00	0.951	95	0.2	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.963	96	0.4	30	55 - 135
Endrin ketone [2C]	1.00	1.00	98	0.6	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21004
Laboratory ID: 6L21004-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.975	98	60 - 130
gamma-BHC	1.00	0.988	99	25 - 135
beta-BHC	1.00	1.02	102	65 - 125
delta-BHC	1.00	0.961	96	45 - 135
Heptachlor	1.00	0.917	92	40 - 130
Aldrin	1.00	0.908	91	25 - 140
Heptachlor epoxide	1.00	0.960	96	60 - 130
Chlordane-gamma	1.00	0.972	97	60 - 125
Chlordane-alpha	1.00	0.966	97	65 - 125
4,4′-DDE	1.00	0.962	96	35 - 140
Endosulfan I	1.00	0.977	98	50 - 110
Dieldrin	1.00	0.966	97	60 - 130
Endrin	1.00	0.906	91	55 - 135
4,4′-DDD	1.00	0.982	98	25 - 150
Endosulfan II	1.00	0.980	98	30 - 130
4,4′-DDT	1.00	0.975	98	45 - 140
Endrin aldehyde	1.00	1.11	111	55 - 135
Methoxychlor	1.00	0.872	87	55 - 150
Endosulfan sulfate	1.00	0.979	98	55 - 135
Endrin ketone	1.00	0.978	98	75 - 125
alpha-BHC [2C]	1.00	0.944	94	60 - 130
gamma-BHC [2C]	1.00	0.945	94	25 - 135
beta-BHC [2C]	1.00	0.992	99	65 - 125
delta-BHC [2C]	1.00	0.933	93	45 - 135
Heptachlor [2C]	1.00	0.914	91	40 - 130
Aldrin [2C]	1.00	0.897	90	25 - 140
Heptachlor epoxide [2C]	1.00	0.943	94	60 - 130
Chlordane-gamma [2C]	1.00	0.957	96	60 - 125
Chlordane-alpha [2C]	1.00	0.939	94	65 - 125
4,4'-DDE [2C]	1.00	0.960	96	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21004	Laboratory ID:	6L21004-BS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.948	95	50 - 110
Dieldrin [2C]	1.00	0.957	96	60 - 130
Endrin [2C]	1.00	0.901	90	55 - 135
4,4'-DDD [2C]	1.00	0.963	96	25 - 150
Endosulfan II [2C]	1.00	0.960	96	30 - 130
4,4'-DDT [2C]	1.00	0.942	94	45 - 140
Endrin aldehyde [2C]	1.00	1.07	107	55 - 135
Methoxychlor [2C]	1.00	0.881	88	55 - 150
Endosulfan sulfate [2C]	1.00	0.957	96	55 - 135
Endrin ketone [2C]	1.00	0.958	96	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00170	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L21004-BLK1)			Lab File ID: 9AKA004-0		Analyzed: 01/16/07 11:45			
2,4,5,6-TCMX	1.00	88	25 - 140	6.439	6.438	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	84	25 - 140	6.183	6.182	0.001	+/-0.3	
DBC	1.00	95	30 - 135	13.721	13.721	0	+/-0.3	
DBC [2C]	1.00	92	30 - 135	13.559	13.559	0	+/-0.3	
JAX47-SB089-02-113006 (B610372-01)			Lab File ID: 9AKA010-0		Analyzed: 01/16/07 14:20			
2,4,5,6-TCMX	1.00	78	25 - 140	6.44	6.438	0.002	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	74	25 - 140	6.184	6.182	0.002	+/-0.3	
DBC	1.00	95	30 - 135	13.721	13.721	0	+/-0.3	
DBC [2C]	1.00	91	30 - 135	13.559	13.559	0	+/-0.3	
JAX47-SB089-05-113006 (B610372-02)			Lab File ID: 9AKA011-0		Analyzed: 01/16/07 14:46			
2,4,5,6-TCMX	1.00	86	25 - 140	6.438	6.438	0	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	80	25 - 140	6.182	6.182	0	+/-0.3	
DBC	1.00	89	30 - 135	13.72	13.721	-0.001	+/-0.3	
DBC [2C]	1.00	88	30 - 135	13.558	13.559	-0.001	+/-0.3	
JAX47-SB096-01-113006 (B610372-03)			Lab File ID: 9AKA012-0		Analyzed: 01/16/07 15:11			
2,4,5,6-TCMX	1.00	91	25 - 140	6.439	6.438	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	81	25 - 140	6.183	6.182	0.001	+/-0.3	
DBC	1.00	95	30 - 135	13.721	13.721	0	+/-0.3	
DBC [2C]	1.00	93	30 - 135	13.559	13.559	0	+/-0.3	
JAX47-SB099-01-113006 (B610372-07)			Lab File ID: 9AKA013-0		Analyzed: 01/16/07 15:37			
2,4,5,6-TCMX	1.00	92	25 - 140	6.439	6.438	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	87	25 - 140	6.183	6.182	0.001	+/-0.3	
DBC	1.00	91	30 - 135	13.721	13.721	0	+/-0.3	
DBC [2C]	1.00	89	30 - 135	13.559	13.559	0	+/-0.3	

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Calibration:	0701020		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4´-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4´-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4´-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00170	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00170-IBL1	9AKA001-0	01/16/07 10:28
Instrument Blank	BA00170-IBL1	9AKB001-0	01/16/07 10:28
Performance Mix	BA00170-PEM1	9AKB002-0	01/16/07 10:54
Performance Mix	BA00170-PEM1	9AKA002-0	01/16/07 10:54
Calibration Check	BA00170-CCV1	9AKB003-0	01/16/07 11:19
Calibration Check	BA00170-CCV1	9AKA003-0	01/16/07 11:19
Blank	6L21004-BLK1	9AKB004-0	01/16/07 11:45
Blank	6L21004-BLK1	9AKA004-0	01/16/07 11:45
LCS	6L21004-BS1	9AKA005-0	01/16/07 12:11
LCS	6L21004-BS1	9AKB005-0	01/16/07 12:11
JAX47-SB089-02-113006	6L21004-MS1	9AKA006-0	01/16/07 12:37
JAX47-SB089-02-113006	6L21004-MS1	9AKB006-0	01/16/07 12:37
JAX47-SB089-02-113006	6L21004-MSD1	9AKA007-0	01/16/07 13:02
JAX47-SB089-02-113006	6L21004-MSD1	9AKB007-0	01/16/07 13:02
JAX47-SB089-02-113006	B610372-01	9AKA010-0	01/16/07 14:20
JAX47-SB089-02-113006	B610372-01	9AKB010-0	01/16/07 14:20
JAX47-SB089-05-113006	B610372-02	9AKA011-0	01/16/07 14:46
JAX47-SB089-05-113006	B610372-02	9AKB011-0	01/16/07 14:46
JAX47-SB096-01-113006	B610372-03	9AKB012-0	01/16/07 15:11
JAX47-SB096-01-113006	B610372-03	9AKA012-0	01/16/07 15:11
JAX47-SB099-01-113006	B610372-07	9AKB013-0	01/16/07 15:37
JAX47-SB099-01-113006	B610372-07	9AKA013-0	01/16/07 15:37
Calibration Check	BA00170-CCV2	9AKA014-0	01/16/07 16:03
Calibration Check	BA00170-CCV2	9AKB014-0	01/16/07 16:03
JAX47-SB089-05-113006	B610372-02RE1	9AKA015-0	01/16/07 16:37
JAX47-SB089-05-113006	B610372-02RE1	9AKB015-0	01/16/07 16:37
JAX47-SB096-01-113006	B610372-03RE1	9AKA016-0	01/16/07 17:08
JAX47-SB096-01-113006	B610372-03RE1	9AKB016-0	01/16/07 17:08
Calibration Check	BA00170-CCV3	9AKB021-0	01/16/07 19:18
Calibration Check	BA00170-CCV3	9AKA021-0	01/16/07 19:18

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00212-PEM1	9LGB002-0	12/12/06 16:59
Performance Mix	BA00212-PEM1	9LGA002-0	12/12/06 16:59
Cal Standard	BA00212-CAL1	9LGA004-0	12/12/06 18:03
Cal Standard	BA00212-CAL1	9LGB004-0	12/12/06 18:03
Cal Standard	BA00212-CAL2	9LGA005-0	12/12/06 18:29
Cal Standard	BA00212-CAL2	9LGB005-0	12/12/06 18:29
Cal Standard	BA00212-CAL3	9LGB006-0	12/12/06 18:55
Cal Standard	BA00212-CAL3	9LGA006-0	12/12/06 18:55
Cal Standard	BA00212-CAL4	9LGB007-0	12/12/06 19:21
Cal Standard	BA00212-CAL4	9LGA007-0	12/12/06 19:21
Cal Standard	BA00212-CAL5	9LGA008-0	12/12/06 19:47
Cal Standard	BA00212-CAL5	9LGB008-0	12/12/06 19:47
Cal Standard	BA00212-CAL6	9LGA009-0	12/12/06 20:13
Cal Standard	BA00212-CAL6	9LGB009-0	12/12/06 20:13
Cal Standard	BA00212-CAL7	9LGB010-0	12/12/06 20:39
Cal Standard	BA00212-CAL7	9LGA010-0	12/12/06 20:39

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA003-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV1	Injection Time:	11:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0982	7.280474E+07	7.15242E+07		-1.8	20
gamma-BHC	A	0.100	0.0988	6.465721E+07	6.38538E+07		-1.2	20
beta-BHC	A	0.100	0.101	2.323065E+07	2.33739E+07		0.6	20
delta-BHC	A	0.100	0.103	5.66961E+07	5.8489E+07		3.2	20
Heptachlor	A	0.100	0.0944	6.414063E+07	6.05793E+07		-5.6	20
Aldrin	A	0.100	0.0974	6.149162E+07	5.98712E+07		-2.6	20
Heptachlor epoxide	A	0.100	0.0958	5.405995E+07	5.17705E+07		-4.2	20
Chlordane-gamma	A	0.100	0.0969	5.527518E+07	5.35658E+07		-3.1	20
Chlordane-alpha	A	0.100	0.0962	5.296272E+07	5.09287E+07		-3.8	20
4,4′-DDE	A	0.100	0.0947	5.244698E+07	4.96888E+07		-5.3	20
Endosulfan I	A	0.100	0.0978	4.972951E+07	4.8629E+07		-2.2	20
Dieldrin	A	0.100	0.0956	5.436507E+07	5.19588E+07		-4.4	20
Endrin	A	0.100	0.0863	4.627937E+07	3.99162E+07		-13.7	20
4,4′-DDD	A	0.100	0.0985	4.00135E+07	3.94188E+07		-1.5	20
Endosulfan II	A	0.100	0.0970	4.442927E+07	4.3112E+07		-3.0	20
4,4′-DDT	A	0.100	0.0974	4.164772E+07	4.05581E+07		-2.6	20
Endrin aldehyde	A	0.100	0.110	3.13612E+07	3.45952E+07		10.3	20
Methoxychlor	A	0.100	0.0873	2.117353E+07	1.84836E+07		-12.7	20
Endosulfan sulfate	A	0.100	0.0974	3.673694E+07	3.5766E+07		-2.6	20
Endrin ketone	A	0.100	0.0985	4.568736E+07	4.50147E+07		-1.5	20
alpha-BHC [2C]	A	0.100	0.0949	7.552835E+07	7.17086E+07		-5.1	20
gamma-BHC [2C]	A	0.100	0.0946	6.719113E+07	6.35942E+07		-5.4	20
beta-BHC [2C]	A	0.100	0.0982	2.472905E+07	2.42768E+07		-1.8	20
delta-BHC [2C]	A	0.100	0.0982	5.850208E+07	5.74711E+07		-1.8	20
Heptachlor [2C]	A	0.100	0.0925	6.67268E+07	6.17487E+07		-7.5	20
Aldrin [2C]	A	0.100	0.0949	6.357242E+07	6.03205E+07		-5.1	20
Heptachlor epoxide [2C]	A	0.100	0.0937	5.626251E+07	5.27059E+07		-6.3	20
Chlordane-gamma [2C]	A	0.100	0.0951	5.722595E+07	5.44072E+07		-4.9	20
Chlordane-alpha [2C]	A	0.100	0.0928	5.472749E+07	5.0776E+07		-7.2	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB003-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV1	Injection Time:	11:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0946	5.341989E+07	5.0529E+07		-5.4	20
Endosulfan I [2C]	A	0.100	0.0937	5.087841E+07	4.76897E+07		-6.3	20
Dieldrin [2C]	A	0.100	0.0946	5.608619E+07	5.30549E+07		-5.4	20
Endrin [2C]	A	0.100	0.0848	4.605028E+07	3.90485E+07		-15.2	20
4,4'-DDD [2C]	A	0.100	0.0944	4.157866E+07	3.92487E+07		-5.6	20
Endosulfan II [2C]	A	0.100	0.0946	4.58875E+07	4.3398E+07		-5.4	20
4,4'-DDT [2C]	A	0.100	0.0930	4.184652E+07	3.89146E+07		-7.0	20
Endrin aldehyde [2C]	A	0.100	0.107	3.232817E+07	3.47179E+07		7.4	20
Methoxychlor [2C]	A	0.100	0.0881	2.018515E+07	1.77928E+07		-11.9	20
Endosulfan sulfate [2C]	A	0.100	0.0952	3.836149E+07	3.6509E+07		-4.8	20
Endrin ketone [2C]	A	0.100	0.0971	4.596086E+07	4.46266E+07		-2.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA014-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV2	Injection Time:	16:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.109	7.280474E+07	7.95299E+07		9.2	20
gamma-BHC	A	0.100	0.109	6.465721E+07	7.0638E+07		9.2	20
beta-BHC	A	0.100	0.111	2.323065E+07	2.56848E+07		10.6	20
delta-BHC	A	0.100	0.112	5.66961E+07	6.34822E+07		12.0	20
Heptachlor	A	0.100	0.102	6.414063E+07	6.55238E+07		2.2	20
Aldrin	A	0.100	0.106	6.149162E+07	6.52439E+07		6.1	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.53911E+07		2.5	20
Chlordane-gamma	A	0.100	0.106	5.527518E+07	5.86501E+07		6.1	20
Chlordane-alpha	A	0.100	0.105	5.296272E+07	5.56817E+07		5.1	20
4,4′-DDE	A	0.100	0.103	5.244698E+07	5.40006E+07		3.0	20
Endosulfan I	A	0.100	0.106	4.972951E+07	5.26073E+07		5.8	20
Dieldrin	A	0.100	0.101	5.436507E+07	5.49773E+07		1.1	20
Endrin	A	0.100	0.103	4.627937E+07	4.75369E+07		2.7	20
4,4′-DDD	A	0.100	0.104	4.00135E+07	4.16637E+07		4.1	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.58825E+07		3.3	20
4,4′-DDT	A	0.100	0.104	4.164772E+07	4.33887E+07		4.2	20
Endrin aldehyde	A	0.100	0.111	3.13612E+07	3.48143E+07		11.0	20
Methoxychlor	A	0.100	0.0919	2.117353E+07	1.9449E+07		-8.1	20
Endosulfan sulfate	A	0.100	0.104	3.673694E+07	3.81292E+07		3.8	20
Endrin ketone	A	0.100	0.101	4.568736E+07	4.59767E+07		0.6	20
alpha-BHC [2C]	A	0.100	0.105	7.552835E+07	7.91051E+07		4.7	20
gamma-BHC [2C]	A	0.100	0.104	6.719113E+07	6.96756E+07		3.7	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.66078E+07		7.6	20
delta-BHC [2C]	A	0.100	0.106	5.850208E+07	6.22052E+07		6.3	20
Heptachlor [2C]	A	0.100	0.103	6.67268E+07	6.85183E+07		2.7	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.57676E+07		3.5	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.67376E+07		0.8	20
Chlordane-gamma [2C]	A	0.100	0.104	5.722595E+07	5.96581E+07		4.3	20
Chlordane-alpha [2C]	A	0.100	0.104	5.472749E+07	5.66483E+07		3.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB014-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV2	Injection Time:	16:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.103	5.341989E+07	5.49476E+07		2.9	20
Endosulfan I [2C]	A	0.100	0.104	5.087841E+07	5.27332E+07		3.6	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.74184E+07		2.4	20
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.67802E+07		1.6	20
4,4'-DDD [2C]	A	0.100	0.103	4.157866E+07	4.2686E+07		2.7	20
Endosulfan II [2C]	A	0.100	0.103	4.58875E+07	4.72642E+07		3.0	20
4,4'-DDT [2C]	A	0.100	0.0971	4.184652E+07	4.0649E+07		-2.9	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.50331E+07		8.4	20
Methoxychlor [2C]	A	0.100	0.0939	2.018515E+07	1.89483E+07		-6.1	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.836149E+07	3.89315E+07		1.5	20
Endrin ketone [2C]	A	0.100	0.0982	4.596086E+07	4.51339E+07		-1.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA021-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV3	Injection Time:	19:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.109	7.280474E+07	7.92068E+07		8.8	20
gamma-BHC	A	0.100	0.109	6.465721E+07	7.03214E+07		8.8	20
beta-BHC	A	0.100	0.111	2.323065E+07	2.58349E+07		11.2	20
delta-BHC	A	0.100	0.109	5.66961E+07	6.18222E+07		9.0	20
Heptachlor	A	0.100	0.101	6.414063E+07	6.48457E+07		1.1	20
Aldrin	A	0.100	0.106	6.149162E+07	6.50374E+07		5.8	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.50635E+07		1.9	20
Chlordane-gamma	A	0.100	0.106	5.527518E+07	5.84179E+07		5.7	20
Chlordane-alpha	A	0.100	0.105	5.296272E+07	5.55503E+07		4.9	20
4,4′-DDE	A	0.100	0.101	5.244698E+07	5.27475E+07		0.6	20
Endosulfan I	A	0.100	0.107	4.972951E+07	5.3341E+07		7.3	20
Dieldrin	A	0.100	0.102	5.436507E+07	5.52556E+07		1.6	20
Endrin	A	0.100	0.102	4.627937E+07	4.70284E+07		1.6	20
4,4′-DDD	A	0.100	0.102	4.00135E+07	4.09016E+07		2.2	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.56258E+07		2.7	20
4,4′-DDT	A	0.100	0.102	4.164772E+07	4.27015E+07		2.5	20
Endrin aldehyde	A	0.100	0.110	3.13612E+07	3.44167E+07		9.7	20
Methoxychlor	A	0.100	0.0896	2.117353E+07	1.8971E+07		-10.4	20
Endosulfan sulfate	A	0.100	0.103	3.673694E+07	3.78093E+07		2.9	20
Endrin ketone	A	0.100	0.0997	4.568736E+07	4.55362E+07		-0.3	20
alpha-BHC [2C]	A	0.100	0.105	7.552835E+07	7.9424E+07		5.2	20
gamma-BHC [2C]	A	0.100	0.105	6.719113E+07	7.03946E+07		4.8	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.68231E+07		8.5	20
delta-BHC [2C]	A	0.100	0.108	5.850208E+07	6.32094E+07		8.0	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.77237E+07		1.5	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.62283E+07		4.2	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.70683E+07		1.4	20
Chlordane-gamma [2C]	A	0.100	0.105	5.722595E+07	6.01111E+07		5.0	20
Chlordane-alpha [2C]	A	0.100	0.104	5.472749E+07	5.71271E+07		4.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB021-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00170	Injection Date:	01/16/07
Lab Sample ID:	BA00170-CCV3	Injection Time:	19:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.104	5.341989E+07	5.55672E+07		4.0	20
Endosulfan I [2C]	A	0.100	0.105	5.087841E+07	5.32135E+07		4.6	20
Dieldrin [2C]	A	0.100	0.103	5.608619E+07	5.7847E+07		3.1	20
Endrin [2C]	A	0.100	0.101	4.605028E+07	4.66406E+07		1.3	20
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.24498E+07		2.1	20
Endosulfan II [2C]	A	0.100	0.104	4.58875E+07	4.76744E+07		3.9	20
4,4'-DDT [2C]	A	0.100	0.0990	4.184652E+07	4.14234E+07		-1.0	20
Endrin aldehyde [2C]	A	0.100	0.109	3.232817E+07	3.51279E+07		8.7	20
Methoxychlor [2C]	A	0.100	0.0923	2.018515E+07	1.86242E+07		-7.7	20
Endosulfan sulfate [2C]	A	0.100	0.101	3.836149E+07	3.87609E+07		1.0	20
Endrin ketone [2C]	A	0.100	0.0978	4.596086E+07	4.49454E+07		-2.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-02-113006

SPLP

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-01	File ID:	9AKA010-0
Sampled:	11/30/06 14:00	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 14:20
Solids:	95.22	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21004	Sequence:	BA00170		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.616	8.023286	0.407		0.003	33.3
gamma-BHC	* 1	8.222	8.628	0.406		0.009	12.5
beta-BHC	* 1	8.418	8.816429	0.398		1.31	2.4
delta-BHC	* 1	8.722	9.124286	0.402		0.009	33.3
Heptachlor	* 1	9.058	9.463429	0.405		0.021	19.0
Heptachlor epoxide	* 1	10.574	10.95643	0.382		0.026	246.2
Chlordane-gamma	* 1	10.762	11.14771	0.386		0.186	340.9
Chlordane-alpha	* 1	10.974	11.34971	0.376		0.038	1705.3
4,4'-DDE	* 1	11.095	11.48286	0.388		0.072	9.1
Dieldrin	* 1	11.512	11.91886	0.407		0.489	10.4
4,4'-DDD	* 1	11.988	12.37786	0.39		0.066	200.0
4,4'-DDT	* 1	12.391	12.78071	0.39		0.701	3.4
Endrin ketone	* 1	13.838	14.25229	0.414		0.020	0.0
alpha-BHC	2	7.462	7.838	0.376		0.004	33.3
gamma-BHC	2	8.124	8.497428	0.373		0.008	12.5
beta-BHC	2	8.323	8.687429	0.364		1.28	2.4
delta-BHC	2	8.816	9.180286	0.364		0.012	33.3
Heptachlor	2	8.863	9.237571	0.375		0.025	19.0
Heptachlor epoxide	2	10.304	10.67843	0.374		0.090	246.2
Chlordane-gamma	2	10.599	10.97329	0.374		0.820	340.9
Chlordane-alpha	2	10.822	11.19143	0.369		0.686	1705.3
4,4'-DDE	2	11.118	11.47543	0.357		0.066	9.1
Dieldrin	2	11.3	11.67429	0.374		0.540	10.4
4,4'-DDD	2	11.947	12.32514	0.378		0.198	200.0
4,4'-DDT	2	12.412	12.77157	0.36		0.678	3.4
Endrin ketone	2	13.703	14.08214	0.379		0.020	0.0
2,4,5,6-TCMX	* 1	6.44	6.848286	0.408		0.785	6.1
2,4,5,6-TCMX	2	6.184	6.564286	0.38		0.740	6.1
DBC	* 1	13.721	14.10214	0.381		0.946	3.8
DBC	2	13.559	13.90914	0.35		0.911	3.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02	File ID:	9AKA011-0
Sampled:	11/30/06 14:10	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 14:46
Solids:	95.29	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21004	Sequence:	BA00170		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.616	8.023286	0.407		0.436	3.8
gamma-BHC	* 1	8.22	8.628	0.408		0.005	0.0
beta-BHC	* 1	8.417	8.816429	0.399		0.054	14.9
delta-BHC	* 1	8.722	9.124286	0.402		0.121	2.5
Heptachlor epoxide	* 1	10.579	10.95643	0.377		0.006	50.0
Chlordane-gamma	* 1	10.744	11.14771	0.404		0.003	200.0
Chlordane-alpha	* 1	10.939	11.34971	0.411		0.008	166.7
4,4'-DDE	* 1	11.102	11.48286	0.381		0.012	475.0
Dieldrin	* 1	11.498	11.91886	0.421		0.013	18.2
4,4'-DDT	* 1	12.39	12.78071	0.391		0.009	22.2
alpha-BHC	2	7.463	7.838	0.375		0.420	3.8
gamma-BHC	2	8.123	8.497428	0.374		0.005	0.0
beta-BHC	2	8.323	8.687429	0.364		0.047	14.9
delta-BHC	2	8.814	9.180286	0.366		0.118	2.5
Heptachlor epoxide	2	10.305	10.67843	0.373		0.004	50.0
Chlordane-gamma	2	10.6	10.97329	0.373		0.009	200.0
Chlordane-alpha	2	10.821	11.19143	0.37		0.003	166.7
4,4'-DDE	2	11.14	11.47543	0.335		0.069	475.0
Dieldrin	2	11.299	11.67429	0.375		0.011	18.2
4,4'-DDT	2	12.41	12.77157	0.362		0.011	22.2
2,4,5,6-TCMX	* 1	6.438	6.848286	0.41		0.855	7.5
2,4,5,6-TCMX	2	6.182	6.564286	0.382		0.795	7.5
DBC	* 1	13.72	14.10214	0.382		0.890	0.7
DBC	2	13.558	13.90914	0.351		0.884	0.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB089-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-02RE1	File ID:	9AKA015-0
Sampled:	11/30/06 14:10	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 16:37
Solids:	95.29	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21004	Sequence:	BA00170		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	11.991	12.37786	0.387		2.88	0.7
4,4'-DDD	2	11.968	12.32514	0.357		2.86	0.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03	File ID:	9AKA012-0
Sampled:	11/30/06 14:23	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 15:11
Solids:	97.30	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21004	Sequence:	BA00170		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.418	8.816429	0.398		0.029	7.4
Heptachlor	* 1	9.058	9.463429	0.405		0.036	9.1
Heptachlor epoxide	* 1	10.574	10.95643	0.382		0.020	1030.0
Chlordane-gamma	* 1	10.743	11.14771	0.405		0.779	4.6
Chlordane-alpha	1	10.94	11.34971	0.41		1.61	123.5
4,4'-DDE	* 1	11.096	11.48286	0.387		0.435	4.6
Dieldrin	* 1	11.511	11.91886	0.408		0.211	10.0
4,4'-DDD	* 1	11.987	12.37786	0.391		0.183	319.7
Endosulfan sulfate	* 1	13.433	13.853	0.42		0.007	40.0
Endrin ketone	* 1	13.838	14.25229	0.414		0.011	154.5
beta-BHC	2	8.323	8.687429	0.364		0.027	7.4
Heptachlor	2	8.862	9.237571	0.376		0.033	9.1
Heptachlor epoxide	2	10.305	10.67843	0.373		0.226	1030.0
Chlordane-gamma	2	10.599	10.97329	0.374		0.815	4.6
Chlordane-alpha	* 2	10.821	11.19143	0.37		0.722	123.5
4,4'-DDE	2	11.118	11.47543	0.357		0.416	4.6
Dieldrin	2	11.299	11.67429	0.375		0.232	10.0
4,4'-DDD	2	11.945	12.32514	0.38		0.768	319.7
Endosulfan sulfate	2	12.96	13.32643	0.366		0.005	40.0
Endrin ketone	2	13.764	14.08214	0.318		0.028	154.5
2,4,5,6-TCMX	* 1	6.439	6.848286	0.409		0.911	12.3
2,4,5,6-TCMX	2	6.183	6.564286	0.381		0.811	12.3
DBC	* 1	13.721	14.10214	0.381		0.949	2.3
DBC	2	13.559	13.90914	0.35		0.928	2.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03RE1	File ID:	9AKA016-0
Sampled:	11/30/06 14:23	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 17:08
Solids:	97.30	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21004	Sequence:	BA00170		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.394	12.78071	0.387		32.6	5.8
4,4'-DDT	2	12.413	12.77157	0.359		30.8	5.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB099-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-07	File ID:	9AKA013-0
Sampled:	11/30/06 15:25	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 15:37
Solids:	93.79	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21004	Sequence:	BA00170		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.551	10.95643	0.405		0.033	39.4
Chlordane-gamma	* 1	10.743	11.14771	0.405		0.037	13.5
Chlordane-alpha	1	10.935	11.34971	0.415		0.214	201.4
4,4'-DDE	* 1	11.097	11.48286	0.386		0.114	11.8
Dieldrin	* 1	11.512	11.91886	0.407		0.100	4.0
4,4'-DDD	* 1	12.014	12.37786	0.364		0.008	125.0
4,4'-DDT	* 1	12.392	12.78071	0.389		0.179	5.0
Heptachlor epoxide	2	10.306	10.67843	0.372		0.046	39.4
Chlordane-gamma	2	10.599	10.97329	0.374		0.042	13.5
Chlordane-alpha	* 2	10.822	11.19143	0.369		0.071	201.4
4,4'-DDE	2	11.119	11.47543	0.356		0.102	11.8
Dieldrin	2	11.299	11.67429	0.375		0.104	4.0
4,4'-DDD	2	11.946	12.32514	0.379		0.018	125.0
4,4'-DDT	2	12.412	12.77157	0.36		0.188	5.0
2,4,5,6-TCMX	* 1	6.439	6.848286	0.409		0.925	6.3
2,4,5,6-TCMX	2	6.183	6.564286	0.381		0.870	6.3
DBC	* 1	13.721	14.10214	0.381		0.913	2.4
DBC	2	13.559	13.90914	0.35		0.892	2.4

* Column used for quantitation

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT		JOB NUMBER	
NAS Jacksonville		00497	
SUBJECT			
Sample Calc			
BASED ON		DRAWING NUMBER	
SW-846			
BY	CHECKED BY	APPROVED BY	DATE
KAC			3/1/07

Jax47-SB096-01-113006 4,4'-DDT 2780 mg/kg

$$\frac{1622387}{41647720} = 0.0389 \frac{mg}{L} \times \frac{0.005 L}{15 g} \times \frac{1 g}{.001 kg} \times 200000 dil \times \frac{1}{.973} =$$

$= 2669$

Jax47-SB096-01-113006 4,4-DDT 32.6 ug/L

$$\frac{677669}{41647720} = 0.0163 \frac{mg}{L} \times \frac{5 ml}{500 ml} \times \frac{1000 ug}{1 mg} \times 200 dil = 32.54$$

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610372-03RE3	File ID:	9LVA007-0
Sampled:	11/30/06 14:23	Prepared:	12/07/06 16:27	Analyzed:	12/27/06 13:04
Solids:	97.30	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L07024	Sequence:	BA00091	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	200000	2700	D

* Values outside of QC limits

Software Version: 4.1<1L22>
Sample Name : b610372-03re3 @d200000 Time : 12/27/06 01:43 PM
Sample Number: 7 Study : 8081 s
Operator : jbh

Instrument : JSVGCECD2 Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 4207271739 Data Acquisition Time: 12/27/06 01:04 PM
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 4.1660 pts/sec

Raw Data File : C:\TC4\HP6890\9LVA007.RAW
Result File : C:\TC4\HP6890\9LVA007.RST
Inst Method : C:\TC4\HP6890\608-2 from C:\TC4\HP6890\9LVA007.RST
Proc Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9LVA007.RST
Calib Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9LVA007.RST
Sequence File : C:\TC4\METHODS\9LV.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 200000.00

---

manually adjusted baseline
JBA 2/27/07

Environmental Conservation Laboratories

==========
PRIMARY COLUMN (DETECTOR A) STX-Clpesticide 30M .32id .50DF
EPA 8081 Analysis Curve 0.005mg/L --> 0.2mg/L (8081a91g on 12/12/06)
1 ppm TCMX(surr) and DBC(surr)
1 ppm CVS / LCS Injection volume = 1.0 ul
==========

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
0	6.635	2,4,5,6-TCMX	0.00	0.0000	0.0000
0	7.812	ALPHA-BHC	0.00	0.0000	0.0000
0	8.416	GAMMA-BHC (LINDANE)	0.00	0.0000	0.0000
0	8.609	BETA-BHC	0.00	0.0000	0.0000
0	8.912	DELTA-BHC	0.00	0.0000	0.0000
0	9.252	HEPTACHLOR	0.00	0.0000	0.0000
0	9.753	ALDRIN	0.00	0.0000	0.0000
0	10.297	ISODRIN	0.00	0.0000	0.0000
0	10.744	HEPTACHLOR EPOXIDE	0.00	0.0000	0.0000
0	10.939	chlordane gamma	0.00	0.0000	0.0000
0	11.142	chlordane alpha	0.00	0.0000	0.0000
5	11.282	4,4'-DDE	7632.02	0.0001	29.1038
0	11.345	ENDOSULFAN I	0.00	0.0000	0.0000
0	11.708	DIELDRIN	0.00	0.0000	0.0000
0	12.052	ENDRIN	0.00	0.0000	0.0000
7	12.176	4,4'-DDD	224084.26	0.0056	1120.0432
0	12.389	ENDOSULFAN II	0.00	0.0000	0.0000
8	12.578	4,4'-DDT	1622387.23	0.0390	7791.0017
0	13.008	ENDRIN ALDEHYDE	0.00	0.0000	0.0000

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
0	13.289	METHOXYCHLOR	0.00	0.0000	0.0000
0	13.460	mirex	0.00	0.0000	0.0000
0	13.641	Endosulfan Sulfate	0.00	0.0000	0.0000
0	13.904	DBC	0.00	0.0000	0.0000
0	14.037	ENDRIN KETONE	0.00	0.0000	0.0000
0	30.100	Chlordane (Total)	0.00	0.0000	0.0000
0	30.150	Chlordane (Tech)	0.00	0.0000	0.0000
0	30.200	Toxaphene	0.00	0.0000	0.0000
0	30.300	PCB-1016/1242	0.00	0.0000	0.0000
0	30.400	PCB-1221	0.00	0.0000	0.0000
0	30.500	PCB-1232	0.00	0.0000	0.0000
0	30.650	PCB-1248	0.00	0.0000	0.0000
0	30.700	PCB-1254	0.00	0.0000	0.0000
0	30.863	PCB-1260	0.00	0.0000	0.0000
			1854103.51	0.0447	8940.1487

Report stored in ASCII file: C:\TC4\HP6890\9LVA007.TX0

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB096-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610372-03RE1	File ID:	9AKA016-0
Sampled:	11/30/06 14:23	Prepared:	12/19/06 18:00	Analyzed:	01/16/07 17:08
Solids:	97.30	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21004	Sequence:	BA00170	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
50-29-3	4,4'-DDT	200	32.6	D

* Values outside of QC limits

Software Version: 4.1<1L22> 1/17/07
Sample Name : b610372-03 @d200 Time : 1/17/07 10:32 AM
Sample Number: 16 Study : 8081 splp
Operator : jbh

Instrument : JSVGCECD2 Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 4207271739 Data Acquisition Time: 1/16/07 05:08 PM
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 4.1660 pts/sec

Raw Data File : C:\TC4\HP6890\9AKA016.RAW
Result File : C:\TC4\HP6890\9aka016.rst
Inst Method : C:\TC4\HP6890\608-2 from C:\TC4\HP6890\9aka016.rst
Proc Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9aka016.rst
Calib Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9aka016.rst
Sequence File : C:\TC4\METHODS\9AK.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 200.00

Environmental Conservation Laboratories

==========

PRIMARY COLUMN (DETECTOR A) STX-Clpesticide 30M .32id .50DF
EPA 8081 Analysis Curve 0.005mg/L --> 0.2mg/L (8081a9lg on 12/12/06)
1 ppm TCMX(surr) and DBC(surr)
1 ppm CVS / LCS Injection volume = 1.0 ul

==========

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
5	6.440	2,4,5,6-TCMX	17742.44	0.0004	0.0798
0	7.631	ALPHA-BHC	0.00	0.0000	0.0000
0	8.237	GAMMA-BHC (LINDANE)	0.00	0.0000	0.0000
0	8.431	BETA-BHC	0.00	0.0000	0.0000
0	8.736	DELTA-BHC	0.00	0.0000	0.0000
0	9.073	HEPTACHLOR	0.00	0.0000	0.0000
0	9.570	ALDRIN	0.00	0.0000	0.0000
0	10.114	ISODRIN	0.00	0.0000	0.0000
0	10.565	HEPTACHLOR EPOXIDE	0.00	0.0000	0.0000
6	10.744	chlordane gamma	17418.39	0.0003	0.0630
7	10.942	chlordane alpha	39167.07	0.0007	0.1479
8	11.101	4,4'-DDE	9443.11	0.0002	0.0360
0	11.164	ENDOSULFAN I	0.00	0.0000	0.0000
0	11.526	DIELDRIN	0.00	0.0000	0.0000
0	11.869	ENDRIN	0.00	0.0000	0.0000
0	12.001	4,4'-DDD	0.00	0.0000	0.0000
0	12.208	ENDOSULFAN II	0.00	0.0000	0.0000
11	12.394	4,4'-DDT	677669.25	0.0163	3.2543
12	12.787	ENDRIN ALDEHYDE	7834.85	0.0002	0.0500

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
0	13.118	METHOXYCHLOR	0.00	0.0000	0.0000
0	13.276	mirex	0.00	0.0000	0.0000
0	13.460	Endosulfan Sulfate	0.00	0.0000	0.0000
13	13.722	DBC	15895.34	0.0004	0.0839
0	13.854	ENDRIN KETONE	0.00	0.0000	0.0000
0	30.100	Chlordane (Total)	0.00	0.0000	0.0000
0	30.150	Chlordane (Tech)	0.00	0.0000	0.0000
0	30.200	Toxaphene	0.00	0.0000	0.0000
0	30.300	PCB-1016/1242	0.00	0.0000	0.0000
0	30.400	PCB-1221	0.00	0.0000	0.0000
0	30.500	PCB-1232	0.00	0.0000	0.0000
0	30.650	PCB-1248	0.00	0.0000	0.0000
0	30.700	PCB-1254	0.00	0.0000	0.0000
0	30.863	PCB-1260	0.00	0.0000	0.0000
			785170.45	0.0186	3.7149

Report stored in ASCII file: C:\TC4\HP6890\9aka016.TX0

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **FEBRUARY 26, 2007**

FROM: **MATTHEW D. KRAUS** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
NAS JACKSONVILLE – CTO 047
SDG – BR006-008

SAMPLES: 10/Soil/

JAX47-SB089-02-113006	JAX47-SB089-05-113006
JAX47-SB096-01-113006	JAX47-SB096-05-113006
JAX47-SB098-01-113006	JAX47-SB098-05-113006
JAX47-SB099-01-113006	JAX47-SB099-05-113006
JAX47-SB113-01-112906	JAX47-SB113-06-112906

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-008, consists of ten soil environmental samples.

All samples were analyzed for arsenic. Four samples were also analyzed for arsenic via the synthetic precipitation leaching procedure (SPLP). The samples were collected by Tetra Tech NUS on November 29-30, 2006 and analyzed by Environmental Conservation Laboratories, Inc. SPLP extractions and arsenic analyses were conducted using SW-846 methods 1312 and 6010B, respectively.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Result
* • Matrix Spike/Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
• Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Arsenic [1]	0.180 mg/kg	0.920 mg/kg

[1] Maximum contaminate level found in the soil prepartion method blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Arsenic was qualified due to laboratory blank contamination.

Notes

Non-detected arsenic results were not reported down to both the method detection limit (MDL) and the method reporting limit (MRL) on Form I reports as requested in the laboratory scope-of-work and required by the state of Florida. Non-detects were reported down to the MRL on Form I reports. The laboratory correctly reported the non-detected arsenic results down to the MDL in the electronic data deliverable (EDD).

The arsenic results on the laboratory method blank forms were not reported down to the MDL.

The laboratory only reported to one significant figure for all non-detected results.

Executive Summary

Laboratory Performance: Arsenic was qualified due to laboratory blank contamination.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", July 2002, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB089-02-113006	nsample	JAX47-SB089-05-113006	nsample	JAX47-SB096-01-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610372-01	lab_id	B610372-02	lab_id	B610372-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	95.2	Pct_Solids	95.3	Pct_Solids	97.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.2		

Parameter	Result	Val Qual	Qual Code
ARSENIC	29.1		

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.1		

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB096-05-113006	nsample	JAX47-SB098-01-113006	nsample	JAX47-SB098-05-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610372-04	lab_id	B610372-05	lab_id	B610372-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.8	Pct_Solids	91.9	Pct_Solids	94.9
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	11.4		

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.3		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.5	U	A

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB099-01-113006	nsample	JAX47-SB099-05-113006	nsample	JAX47-SB113-01-112906
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/29/2006
lab_id	B610372-07	lab_id	B610372-08	lab_id	B610309-01
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	93.8	Pct_Solids	85.5	Pct_Solids	70.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.6		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.1		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB113-06-112906
samp_date	11/29/2006
lab_id	B610309-02
qc_type	NM
units	MG/KG
Pct_Solids	75.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB089-02-113006	nsample	JAX47-SB089-05-113006	nsample	JAX47-SB096-01-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610372-01	lab_id	B610372-02	lab_id	B610372-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids	95.2	Pct_Solids	95.3	Pct_Solids	97.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.008		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.005		

PROJ_NO: 00497

SDG: BR006-008 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB099-01-113006
samp_date	11/30/2006
lab_id	B610372-07
qc_type	NM
units	MG/L
Pct_Solids	93.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.005		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB089-02-113006

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610372-01 | File ID: 122006a-089

Sampled: 11/30/06 14:00 | Prepared: 12/15/06 05:44 | Analyzed: 12/20/06 19:17

Solids: 95.22 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15001 | Sequence: BA00110 | Calibration: 0612015 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	3.2	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB089-05-113006

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610372-02 | File ID: 122006a-090

Sampled: 11/30/06 14:10 | Prepared: 12/15/06 05:44 | Analyzed: 12/20/06 19:23

Solids: 95.29 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15001 | Sequence: BA00110 | Calibration: 0612015 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	29.1	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB096-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610372-03 | File ID: 122006a-091

Sampled: 11/30/06 14:23 | Prepared: 12/15/06 05:44 | Analyzed: 12/20/06 19:31

Solids: 97.30 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15001 | Sequence: BA00110 | Calibration: 0612015 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.1	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB096-05-113006

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610372-04
File ID: 122006a-092
Sampled: 11/30/06 14:30
Prepared: 12/15/06 05:44
Analyzed: 12/20/06 19:38
Solids: 96.82
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 6L15001
Sequence: BA00110
Calibration: 0612015
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	11.4	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB098-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610372-05 | File ID: 122006a-093

Sampled: 11/30/06 15:11 | Prepared: 12/15/06 05:44 | Analyzed: 12/20/06 19:44

Solids: 91.89 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15001 | Sequence: BA00110 | Calibration: 0612015 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.3	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB098-05-113006

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610372-06 | File ID: 122006a-094

Sampled: 11/30/06 15:13 | Prepared: 12/15/06 05:44 | Analyzed: 12/20/06 19:51

Solids: 94.88 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15001 | Sequence: BA00110 | Calibration: 0612015 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB099-01-113006

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610372-07 File ID: 122006a-095

Sampled: 11/30/06 15:25 Prepared: 12/15/06 05:44 Analyzed: 12/20/06 19:58

Solids: 93.79 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15001 Sequence: BA00110 Calibration: 0612015 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	2.6	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB099-05-113006

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610372-08 | File ID: 122006a-096

Sampled: 11/30/06 15:30 | Prepared: 12/15/06 05:44 | Analyzed: 12/20/06 20:04

Solids: 85.54 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15001 | Sequence: BA00110 | Calibration: 0612015 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	2.1	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB113-01-112906

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610309-01 | File ID: 122006a-084

Sampled: 11/29/06 09:02 | Prepared: 12/15/06 05:44 | Analyzed: 12/20/06 18:43

Solids: 70.37 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15001 | Sequence: BA00110 | Calibration: 0612015 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB113-06-112906

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610309-02
File ID: 122006a-088
Sampled: 11/29/06 09:15
Prepared: 12/15/06 05:44
Analyzed: 12/20/06 19:10
Solids: 75.61
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 6L15001
Sequence: BA00110
Calibration: 0612015
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB089-02-113006

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610372-01 | File ID: 011107a-066

Sampled: 11/30/06 14:00 | Prepared: 01/10/07 16:07 | Analyzed: 01/11/07 16:35

Solids: 95.22 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10028 | Sequence: BA00160 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.008	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB089-05-113006

Laboratory: ENCO Jacksonville | SDG: BR006-008

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610372-02 | File ID: 011107a-067

Sampled: 11/30/06 14:10 | Prepared: 01/10/07 16:07 | Analyzed: 01/11/07 16:42

Solids: 95.29 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10028 | Sequence: BA00160 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB096-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610372-03
File ID: 011107a-068
Sampled: 11/30/06 14:23
Prepared: 01/10/07 16:07
Analyzed: 01/11/07 16:49
Solids: 97.30
Preparation: EPA 3010A
Initial/Final: 50 mL / 50 mL
Batch: 7A10028
Sequence: BA00160
Calibration: 0701006
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.005	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB099-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: soil
Laboratory ID: B610372-07
File ID: 011107a-069
Sampled: 11/30/06 15:25
Prepared: 01/10/07 16:07
Analyzed: 01/11/07 16:56
Solids: 93.79
Preparation: EPA 3010A
Initial/Final: 50 mL / 50 mL
Batch: 7A10028
Sequence: BA00160
Calibration: 0701006
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.005	1	J	EPA 6010B

APPENDIX C
SUPPORT DOCUMENTATION

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chad McG	11-30-06	1130	[illegible]	11/30/06	1135
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No: **112G00497**	Facility: **JACKSONVILLE NAS**	Project Manager: **Mark Peterson**	Carrier: **Hand Deliver**	Laboratory Name: **Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No: **CTO 0047**	Turn Around Time: **Standard**	Field Ops Leader: **Charles Metz**	Carrier/Waybill No.	Point of Contact: **Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By: **Chuck Metz**	Date: 12/01/2006	Time: 15:50	Received By: **Hand Deliver**	Date: 12/01/2006	Time: 16:50
2. Relinquished By:	Date:	Time:	Received By:	Date: 12/1/06	Time: 16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

HOLDTIME

SDG BR006-008

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB113-06-112906	B610309-02	NM	11/29/2006	12/15/2006	12/20/2006	16	5	21
M	MG/KG	JAX47-SB113-01-112906	B610309-01	NM	11/29/2006	12/15/2006	12/20/2006	16	5	21
M	MG/KG	JAX47-SB099-05-113006	B610372-08	NM	11/30/2006	12/15/2006	12/20/2006	15	5	20
M	MG/KG	JAX47-SB099-01-113006	B610372-07	NM	11/30/2006	12/15/2006	12/20/2006	15	5	20
M	MG/KG	JAX47-SB098-05-113006	B610372-06	NM	11/30/2006	12/15/2006	12/20/2006	15	5	20
M	MG/KG	JAX47-SB098-01-113006	B610372-05	NM	11/30/2006	12/15/2006	12/20/2006	15	5	20
M	MG/KG	JAX47-SB096-05-113006	B610372-04	NM	11/30/2006	12/15/2006	12/20/2006	15	5	20
M	MG/KG	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	12/15/2006	12/20/2006	15	5	20
M	MG/KG	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	12/15/2006	12/20/2006	15	5	20
M	MG/KG	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	12/15/2006	12/20/2006	15	5	20

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits due to the sample matrix.
- The surrogate recoveries for JAX47-SB089-02-113006, JAX47-SB096-01-113006, JAX47-SB099-01-113006 were outside the DoD QSM control limits due to sample matrix.
- 4,4-DDT for JAX47-SB096-01-113006 was run at 200,000 dilution factor. The Continuing Calibration Verification Standard result for 4,4-DDT was outside and below the DoD QSM limit, therefore the result associated with this standard/compound is considered to be estimated bias low.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.20 11:32:22 -05'00'

Christina M. Tompkins
Project Manager

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-008

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB113-01-112906	B610309-01
JAX47-SB113-06-112906	B610309-02
JAX47-SB089-02-113006	B610372-01
JAX47-SB089-05-113006	B610372-02
JAX47-SB096-01-113006	B610372-03
JAX47-SB096-05-113006	B610372-04
JAX47-SB098-01-113006	B610372-05
JAX47-SB098-05-113006	B610372-06
JAX47-SB099-01-113006	B610372-07
JAX47-SB099-05-113006	B610372-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.20 11:33:20 -05'00'

Name: Christina Tompkins

Date: 01/02/07

Title: Project Manager

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612015
Control Limt: +/- 10.00%
Sequence: BA00110

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00110-ICV1	Arsenic	0.500	0.502	100	mg/L	EPA 6010B
BA00110-CCV1	Arsenic	0.500	0.490	98	mg/L	EPA 6010B
BA00110-CCV2	Arsenic	0.500	0.483	97	mg/L	EPA 6010B
BA00110-CCV3	Arsenic	0.500	0.481	96	mg/L	EPA 6010B

* Values outside of QC limits

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L15001-BLK1	File ID:	122006a-080
Prepared:	12/15/06 05:44	Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL
Analyzed:	12/20/06 18:16	Instrument:	JMICP1		
Batch:	6L15001	Sequence:	BA00110	Calibration:	0612015

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7440-38-2	Arsenic	0.5	U

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00110
Calibration: 0612015

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00110-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00110-CCB1	Arsenic	0.00342	0.01	mg/L		EPA 6010B
6L15001-BLK1	Arsenic	0.183	0.5	mg/kg wet		EPA 6010B
BA00110-CCB2	Arsenic	0.00310	0.01	mg/L		EPA 6010B
BA00110-CCB3	Arsenic	0.00268	0.01	mg/L		EPA 6010B

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-008

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Instrument ID: JMICP1

Calibration: 0612015

Sequence: BA00110

Lab Sample ID	Analyte	True	Found	%R	Units
BA00110-IFA1	Arsenic	1.00	1.02	102	mg/L
	Arsenic	1.00	1.02	102	mg/L

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L15001	Laboratory ID:	6L15001-MS1
Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL

Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Arsenic	52.5	3.22	47.7	85	80-120

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	52.5	45.7	81	4	20	80-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L15001	Laboratory ID:	6L15001-BS1
Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Arsenic	50.0	47.3	95	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-008

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	0.2	0.5	mg/kg

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L15001 Batch Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L15001-BLK1	122006a-080	12/15/06 05:44	
LCS	6L15001-BS1	122006a-081	12/15/06 05:44	
JAX47-SB089-02-113006	6L15001-MS1	122006a-082	12/15/06 05:44	
JAX47-SB089-02-113006	6L15001-MSD1	122006a-083	12/15/06 05:44	
JAX47-SB113-01-112906	B610309-01	122006a-084	12/15/06 05:44	
JAX47-SB113-06-112906	B610309-02	122006a-088	12/15/06 05:44	
JAX47-SB089-02-113006	B610372-01	122006a-089	12/15/06 05:44	MS/MSD sample
JAX47-SB089-05-113006	B610372-02	122006a-090	12/15/06 05:44	
JAX47-SB096-01-113006	B610372-03	122006a-091	12/15/06 05:44	
JAX47-SB096-05-113006	B610372-04	122006a-092	12/15/06 05:44	
JAX47-SB098-01-113006	B610372-05	122006a-093	12/15/06 05:44	
JAX47-SB098-05-113006	B610372-06	122006a-094	12/15/06 05:44	
JAX47-SB099-01-113006	B610372-07	122006a-095	12/15/06 05:44	
JAX47-SB099-05-113006	B610372-08	122006a-096	12/15/06 05:44	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00110	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0612015

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00110-ICB1	122006a-001	12/20/06 09:14
Cal Standard	BA00110-CAL1	122006a-002	12/20/06 09:20
Instrument Blank	BA00110-IBL1	122006a-003	12/20/06 09:31
Low Cal Check	BA00110-LCV1	122006a-004	12/20/06 09:38
Secondary Cal Check	BA00110-SCV1	122006a-005	12/20/06 09:44
Initial Cal Check	BA00110-ICV1	122006a-006	12/20/06 09:51
Interference Check A	BA00110-IFA1	122006a-008	12/20/06 10:04
Calibration Blank	BA00110-CCB1	122006a-073	12/20/06 17:28
Calibration Check	BA00110-CCV1	122006a-074	12/20/06 17:34
Blank	6L15001-BLK1	122006a-080	12/20/06 18:16
LCS	6L15001-BS1	122006a-081	12/20/06 18:23
JAX47-SB089-02-113006	6L15001-MS1	122006a-082	12/20/06 18:30
JAX47-SB089-02-113006	6L15001-MSD1	122006a-083	12/20/06 18:36
JAX47-SB113-01-112906	B610309-01	122006a-084	12/20/06 18:43
Calibration Blank	BA00110-CCB2	122006a-086	12/20/06 18:57
Calibration Check	BA00110-CCV2	122006a-087	12/20/06 19:04
JAX47-SB113-06-112906	B610309-02	122006a-088	12/20/06 19:10
JAX47-SB089-02-113006	B610372-01	122006a-089	12/20/06 19:17
JAX47-SB089-05-113006	B610372-02	122006a-090	12/20/06 19:23
JAX47-SB096-01-113006	B610372-03	122006a-091	12/20/06 19:31
JAX47-SB096-05-113006	B610372-04	122006a-092	12/20/06 19:38
JAX47-SB098-01-113006	B610372-05	122006a-093	12/20/06 19:44
JAX47-SB098-05-113006	B610372-06	122006a-094	12/20/06 19:51
JAX47-SB099-01-113006	B610372-07	122006a-095	12/20/06 19:58
JAX47-SB099-05-113006	B610372-08	122006a-096	12/20/06 20:04
Calibration Blank	BA00110-CCB3	122006a-099	12/20/06 20:25
Calibration Check	BA00110-CCV3	122006a-100	12/20/06 20:31

Prepared: 15-Dec-06 05:44	6L15001	Printed: 12/15/06 6:01:08AM

ENCO Jacksonville

Matrix: Soil

Prepared using: METALS - EPA 3050B

Sample ID	Sample ID , Source Sample and Location	AMT DIGESTED mL g L	Final Vol (mL)	Due Date	Spike Amount uL 1 | 2	Comments
6L15001-BLK1	Blank	1	50		|	95C
6L15001-BS1	LCS	1	50		500 | 500	
6L15001-MS1	Matrix Spike [B610372-01]	1.00			500 | 500	
6L15001-MSD1	Matrix Spike Dup [B610372-01]	1.00			500 | 500	
B610309-01	JAX47-SB113-01-112906 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610309-02	JAX47-SB113-06-112906 A[C6]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610372-01	JAX47-SB089-02-113006 G[E9]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	MS/MSD sample
B610372-02	JAX47-SB089-05-113006 A[C7]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610372-03	JAX47-SB096-01-113006 A[C7]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610372-04	JAX47-SB096-05-113006 A[C7]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610372-05	JAX47-SB098-01-113006 A[C7]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610372-06	JAX47-SB098-05-113006 A[C7]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610372-07	JAX47-SB099-01-113006 A[C7]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610372-08	JAX47-SB099-05-113006 A[C7]	1.00		21-Dec-06	Tetra Tech NUS (BR006)	
B610579-59	C-2037-SO1-2 A[C8]	1.00		29-Dec-06	WRS Infrastructure and Environment Inc. (WR003)	
B610579-60	C-2037-SO1-4 A[C8]	1.00		29-Dec-06	WRS Infrastructure and Environment Inc (WR003)	
B610579-61	C-D-238 A[C8]	1.00		29-Dec-06	WRS Infrastructure and Environment Inc (WR003)	
B610579-62	C-2038-SO1-0 A[C8]	1.00		29-Dec-06	WRS Infrastructure and Environment Inc (WR003)	
B610579-63	C-2038-SO1-2 A[C8]	1.00		29-Dec-06	WRS Infrastructure and Environment Inc. (WR003)	
B610579-64	C-2038-SO1-4 A[C8]	1.00		29-Dec-06	WRS Infrastructure and Environment Inc. (WR003)	
B610579-65	C-2039-SO1-0 A[C8]	1.00		29-Dec-06	WRS Infrastructure and Environment Inc (WR003)	
B610579-66	C-2039-SO1-2 A[C8]	1.00		29-Dec-06	WRS Infrastructure and Environment Inc. (WR003)	
B610630-04	SB-N (14") A[E15]	1.00		21-Dec-06	Coastal Science Associates (CO 020)	
B610760-01	S-1 2 Drums B[C9]	1.00		21-Dec-06	TAK Env Services Inc. (TA002)	

Standard(s):		
B6H0156	ICP Spike A / QCS-1	500 uL

Standard ID#	Description	Manufacture Lot#

B6H0158	ICP Spike B / QCS-1	500 uL

12-15-06

Prepared By Date

Preparation Reviewed By Date

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-008

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB089-02-113006	B610372-01
JAX47-SB089-05-113006	B610372-02
JAX47-SB096-01-113006	B610372-03
JAX47-SB099-01-113006	B610372-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.23 09:17:45 -05'00'

Name: Christina Tompkins

Date: 01/23/07

Title: Project Manager

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

HOLDTIME

SDG BR006-008

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPM	MG/L	JAX47-SB099-01-113006	B610372-07	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPP	%	JAX47-SB099-01-113006	B610372-07	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	%	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	%	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	%	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB099-01-113006	B610372-07	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB096-01-113006	B610372-03RE1	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB096-01-113006	B610372-03	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB089-05-113006	B610372-02RE1	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB089-05-113006	B610372-02	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB089-02-113006	B610372-01	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins

Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 09:17:13 -05'00'

Christina M. Tompkins
Project Manager

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0701006
Control Limt: +/- 10.00%
Sequence: BA00160

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00160-ICV1	Arsenic	0.500	0.497	99	mg/L	EPA 6010B
BA00160-CCV1	Arsenic	0.500	0.492	98	mg/L	EPA 6010B
BA00160-CCV2	Arsenic	0.500	0.485	97	mg/L	EPA 6010B
BA00160-CCV3	Arsenic	0.500	0.489	98	mg/L	EPA 6010B

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-008

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Instrument ID: JMICP1

Calibration: 0701006

Sequence: BA00160

Lab Sample ID	Analyte	True	Found	%R	Units
BA00160-IFA1	Arsenic	1.00	0.98	98	mg/L
	Arsenic	1.00	0.98	98	mg/L

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX47-SB089-02-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7A10028	Laboratory ID:	7A10028-MS1
Preparation:	EPA 3010A	Initial/Final:	50 mL / 50 mL

Source Sample Name: JAX47-SB089-02-113006

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Arsenic	1.00	0.00774	0.881	87	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	1.00	0.933	93	6	20	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7A10028	Laboratory ID:	7A10028-BS1
Preparation:	EPA 3010A	Initial/Final:	50 mL / 50 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Arsenic	1.00	0.959	96	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-008
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00160
Calibration: 0701006

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00160-ICB1	Arsenic	0.00	0.010	mg/L		EPA 6010B
BA00160-CCB1	Arsenic	2.74E-5	0.010	mg/L		EPA 6010B
7A10028-BLK1	Arsenic	0.000703	0.010	mg/L		EPA 6010B
BA00160-CCB2	Arsenic	0.00280	0.010	mg/L		EPA 6010B
BA00160-CCB3	Arsenic	0.00213	0.010	mg/L		EPA 6010B

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville		SDG:	BR006-008	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	7A10028-BLK1	File ID:	011107a-057
Prepared:	01/10/07 16:07	Preparation:	EPA 3010A	Initial/Final:	50 mL / 50 mL
Analyzed:	01/11/07 15:33	Instrument:	JMICP1		
Batch:	7A10028	Sequence:	BA00160	Calibration:	0701006

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7440-38-2	Arsenic	0.010	U

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-008

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	0.004	0.010	mg/L

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-008

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7A10028 Batch Matrix: Water Preparation: EPA 3010A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7A10028-BLK1	011107a-057	01/10/07 16:07	
LCS	7A10028-BS1	011107a-058	01/10/07 16:07	
JAX47-SB089-02-113006	7A10028-MS1	011107a-062	01/10/07 16:07	
JAX47-SB089-02-113006	7A10028-MSD1	011107a-063	01/10/07 16:07	
JAX47-SB089-02-113006	B610372-01	011107a-066	01/10/07 16:07	
JAX47-SB089-05-113006	B610372-02	011107a-067	01/10/07 16:07	
JAX47-SB096-01-113006	B610372-03	011107a-068	01/10/07 16:07	
JAX47-SB099-01-113006	B610372-07	011107a-069	01/10/07 16:07	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-008
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00160	Instrument:	JMICP1
Matrix:	Water	Calibration:	0701006

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00160-ICB1	011107a-001	01/11/07 09:07
Cal Standard	BA00160-CAL1	011107a-002	01/11/07 09:13
Instrument Blank	BA00160-IBL1	011107a-003	01/11/07 09:22
Low Cal Check	BA00160-LCV1	011107a-004	01/11/07 09:29
Secondary Cal Check	BA00160-SCV1	011107a-005	01/11/07 09:35
Initial Cal Check	BA00160-ICV1	011107a-006	01/11/07 09:42
Interference Check A	BA00160-IFA1	011107a-008	01/11/07 09:55
Calibration Blank	BA00160-CCB1	011107a-047	01/11/07 14:25
Calibration Check	BA00160-CCV1	011107a-048	01/11/07 14:31
Blank	7A10028-BLK1	011107a-057	01/11/07 15:33
LCS	7A10028-BS1	011107a-058	01/11/07 15:40
Calibration Blank	BA00160-CCB2	011107a-060	01/11/07 15:54
Calibration Check	BA00160-CCV2	011107a-061	01/11/07 16:00
JAX47-SB089-02-113006	7A10028-MS1	011107a-062	01/11/07 16:07
JAX47-SB089-02-113006	7A10028-MSD1	011107a-063	01/11/07 16:13
JAX47-SB089-02-113006	B610372-01	011107a-066	01/11/07 16:35
JAX47-SB089-05-113006	B610372-02	011107a-067	01/11/07 16:42
JAX47-SB096-01-113006	B610372-03	011107a-068	01/11/07 16:49
JAX47-SB099-01-113006	B610372-07	011107a-069	01/11/07 16:56
Calibration Blank	BA00160-CCB3	011107a-073	01/11/07 17:24
Calibration Check	BA00160-CCV3	011107a-074	01/11/07 17:31

SRV: JAX47-SB113-06-112906 [As] = 0.4 mg/kg as reported by the laboratory.

Sb 206.833	2,508.7	0.4604	0.00135	mg/L	0.4604		0.29 %
2006/12/20 19:04:05 QC value within limits for Sb 206.833 Recovery = 92.09%							
Se 196.026	1,731.1	0.4688	0.00057	mg/L	0.4688		0.12 %
2006/12/20 19:04:05 QC value within limits for Se 196.026 Recovery = 93.76%							
Sn 189.933	3,935.1	0.4713	0.00227	mg/L	0.4713		0.48 %
2006/12/20 19:04:05 QC value within limits for Sn 189.933 Recovery = 94.25%							
Sr 421.539R	431,252.1	0.4937	0.02061	mg/L	0.4937		4.18 %
2006/12/20 19:04:05 QC value within limits for Sr 421.539R Recovery = 98.75%							
Ti 337.280	196,030.8	0.2428	0.00086	mg/L	0.2428		0.35 %
2006/12/20 19:04:05 QC value within limits for Ti 337.280 Recovery = 97.13%							
Tl 190.800	1,519.8	0.4735	0.00628	mg/L	0.4735		1.33 %
2006/12/20 19:04:05 QC value within limits for Tl 190.800 Recovery = 94.70%							
V 292.402	145,789.2	0.4965	0.00160	mg/L	0.4965		0.32 %
2006/12/20 19:04:05 QC value within limits for V 292.402 Recovery = 99.30%							
Zn 206.191	33,374.3	0.4702	0.00217	mg/L	0.4702		0.46 %
2006/12/20 19:04:05 QC value within limits for Zn 206.191 Recovery = 94.04%							

Mean Data

ID: b610309-02 **Seq. No.:** 88 **A/S Pos:** 80

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2006/12/20 19:08:42

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	238,916.3	98.3	0.37	%			%	0.38 %
Y361.105A	1,507,416.7	101	0.2	%			%	0.23 %
Ag 338.289	-513.0	-0.0001	0.00073	mg/L	-0.0001	0.00073	mg/L	489.74 %
Ag 328.068	-332.8	-0.0008	0.00016	mg/L	-0.0008	0.00016	mg/L	19.82 %
Al 308.215	25,443.0	8.84	0.231	mg/L	8.84	0.231	mg/L	2.61 %
As 188.979	20.0	0.0058	0.00133	mg/L	0.0058	0.00133	mg/L	23.05 %
Ba 233.527	7,457.0	0.0340	0.00012	mg/L	0.0340	0.00012	mg/L	0.35 %
Be 313.107	4,956.5	0.0006	0.00002	mg/L	0.0006	0.00002	mg/L	3.50 %
B 208.959	-346.5	-0.0149	0.00056	mg/L	-0.0149	0.00056	mg/L	3.74 %
Ca 317.933	1,034,094.0	3.662	0.0065	mg/L	3.662	0.0065	mg/L	0.18 %
Ca Radial	112,088.0	3.656	0.1387	mg/L	3.656	0.1387	mg/L	3.79 %
Cd 226.502	59.2	0.0001	0.00016	mg/L	0.0001	0.00016	mg/L	108.55 %
Co 228.616	78.6	0.0005	0.00015	mg/L	0.0005	0.00015	mg/L	29.78 %

$\frac{0.0058\,mg}{L} \cdot \frac{0.05\,L}{1.00\,g} \cdot \frac{1000\,g}{1\,kg} = \frac{0.29\,mg}{kg} \cdot \frac{1}{0.7561} = \boxed{\frac{0.38\,mg}{kg}}$

SPLP SRV: JAX47-SB099-01-113006 [As] = 0.005 mg/L as reported by the laboratory.

Ni 231.604	362.8	0.004	0.0001	mg/L	0.004	0.0001	mg/L	2.34 %
Pb 220.353	452.2	0.0262	0.00094	mg/L	0.0262	0.00094	mg/L	3.60 %
Sb 206.833	-12.5	-0.0026	0.00101	mg/L	-0.0026	0.00101	mg/L	38.39 %
Se 196.026	0.2	0.0003	0.00216	mg/L	0.0003	0.00216	mg/L	762.25 %
Sn 189.933	37.5	0.0043	0.00028	mg/L	0.0043	0.00028	mg/L	6.48 %
Sr 421.539R	28,087.3	0.0401	0.00211	mg/L	0.0401	0.00211	mg/L	5.27 %
Ti 337.280	7,216.5	0.0092	0.00007	mg/L	0.0092	0.00007	mg/L	0.77 %
Tl 190.800	-2.6	-0.0006	0.00343	mg/L	-0.0006	0.00343	mg/L	570.77 %
V 292.402	2,035.5	0.0068	0.00029	mg/L	0.0068	0.00029	mg/L	4.22 %
Zn 206.191	3,445.1	0.0438	0.00044	mg/L	0.0438	0.00044	mg/L	1.01 %

Mean Data

ID: b610372-07 **Seq. No.:** 69 **A/S Pos:** 67

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2007/01/11 16:54:40

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	174,617.4	99.9	0.17	%			%	0.17 %
Y361.105A	1,516,057.8	103	0.4	%			%	0.36 %
Ag 338.289	-23.3	0.0000	0.00028	mg/L	0.0000	0.00028	mg/L	2,677.2 %
Ag 328.068	-78.0	-0.0001	0.00007	mg/L	-0.0001	0.00007	mg/L	50.00 %
Al 308.215	2,948.3	1.47	0.025	mg/L	1.47	0.025	mg/L	1.68 %
As 188.979	19.1	0.0054	0.00163	mg/L	0.0054	0.00163	mg/L	30.00 %
Ba 233.527	3,237.9	0.0147	0.00004	mg/L	0.0147	0.00004	mg/L	0.27 %
Be 313.107	2,392.4	0.0003	0.00003	mg/L	0.0003	0.00003	mg/L	10.54 %
B 208.959	2,803.3	0.1227	0.00020	mg/L	0.1227	0.00020	mg/L	0.17 %
Ca 317.933	4,125,919.8	13.60	0.015	mg/L	13.60	0.015	mg/L	0.11 %
Ca Radial	300,670.0	13.96	0.733	mg/L	13.96	0.733	mg/L	5.25 %

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MARK PETERSON** **DATE:** **MARCH 7, 2007**

FROM: **PRESTON SMITH** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/SVOC/PEST**
NAS JACKSONVILLE
CTO 047 SDG BR006-009

SAMPLES: 9/Aqueous/VOC/SVOC/PEST

JAX-47-937MW1S-112906	JAX-47-937MW5S-112906	JAX-47-EB03
JAX-47-EB04	JAX-47-MW15D-112906	JAX-47-MW15S-112906
JAX-47-937MW3S-112906	TRIP BLANK #3	TRIP BLANK #4

OVERVIEW

The sample set for NAS Jacksonville CTO 047, SDG BR006-009 consists of two (2) trip blanks, two (2) equipment blanks (JAX-47-EB03, JAX-47-EB04) and five (5) environmental water samples. All samples were analyzed as indicated above. The trip blanks were analyzed for VOCs only.

The samples were collected by TetraTech NUS on November 28 and 29, 2006 and analyzed by Environmental Conservation laboratories, Inc. All analyses were conducted in accordance with SW-846 Methods 8260B, 8270C and 8081A analysis and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• GC/MS Tuning
	• Initial and continuing calibration
*	• Blank results
*	• Surrogate spike recoveries
*	• Internal standard recoveries
	• Blank Spike/Blank Spike Duplicate Results
	• Matrix Spike/Matrix Spike Duplicate Results
*	• Detection Limits
*	• Compound Quantitation
	• Compound Identification

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Volatiles

The following compound was detected in the method blanks at the following maximum concentration:

Compound	Maximum Concentration	Action Level
Acetone	7.36 ug/L	73.6 ug/L

An action level of 10X the maximum contaminant concentration (for acetone) was established to evaluate blank contamination. Dilution factors were taken into consideration during the application of all action levels. Positive results for acetone less than the Action Level were qualified nondetect (U). Field quality control blanks were not qualified for lab blank contamination.

The percent standard deviations (%RSDs) for bromomethane, methyl cyclohexane and bromoform were greater than the 30% quality control criterion. The nondetected results reported for these compounds were qualified estimated (UJ). Methyl cyclohexane was detected in sample JAX-47-MW15D-112906 and was qualified estimated (J).

The continuing calibration Percent Differences (%Ds) for bromomethane and tetrachloroethene were greater than 25% on instrument JVGCMS1 on 12/07/06. The nondetected results reported for bromomethane and tetrachloroethene were qualified as estimated (UJ). Positive results were qualified estimated (J) for samples JAX-47-937MW1S-112906, JAX-47-937MW5S-112906, JAX-47-937MW3S-112906 for tetrachloroethene.

The Laboratory Control Samples (LCS) 6L07026-BS1 had Percent Recoveries (%Rs) for dichlorofluoromethane, chloromethane, toluene, 1,2-dibromoethane, chlorobenzene, o-xylene, isopropylbenzene, 1,4-dichlorobenzene and 1,2-dichlorobenzene that were higher than the respective upper quality control limits. No action was taken in nondetected samples because the bias was high from the LCS. Sample JAX-47-937MW5S-1112906 was qualified estimated (J) for toluene, chlorobenzene, isopropyl benzene and 1,2 dichlorobenzene for this noncompliance. Samples JAX-47-EB03 and JAX-47-EB04 were qualified estimated (J) for toluene for this noncompliance. Sample JAX-47-937MW3S-1112906 was qualified estimated (J) for toluene, chlorobenzene and isopropylbenzene for this noncompliance.

The reported result for cis-1,2-dichloroethene in samples JAX-47-937MW3S-112906 and JAX-47-937MW5S-112906 had a 10X dilution applied. The reported result for total xylenes in sample JAX-47-937MW5S-112906 also had a 10X dilution applied.

SVOCs

The continuing calibration run on 12/05/06 at 11:34 on instrument JSVGCMS1 yielded %Ds greater than the 25% QC limit for 3-nitroaniline, 4-nitroaniline, 4-chloroaniline, 2,4-dinitrophenol and carbazole. The nondetected results reported for these compounds were qualified estimated (UJ).

The Laboratory Control Samples (LCS) 6L04001-BS1 had Percent Recoveries (%Rs) that were higher than the respective upper quality control limits for 4-chloroaniline, 3-nitroaniline, 4-nitoaniline, N-nitrosodiphenylamine and carbazole. No positive results were reported for these compounds, so no action was taken other than for previous qualifications listed above.

The reported results for 2,4,5-trichlorophenol and 2,4-dichlorophenol in sample JAX-47-937MW3S-112906 had dilution factors applied of 100X and 20X for the respective compounds.

PEST

The surrogate (%R) was high on one column only for decachlorobiphenyl (DCB) in sample JAX-47-937MW5S-112906. No action was taken for this noncompliance. The surrogate (%R) was high for 2,4,5,6-tetrachloro-m-xylene on both columns in sample JAX-47-937MW3S-112906. Positive results for affected compounds were qualified estimated (J) for this noncompliance.

All samples except JAX-47-MW15S-112906 had at least one dual column confirmation noncompliance associated with the sample. Samples JAX-47-937MW1S-112906, JAX-47-937MW3S-112906 and JAX-47-937MW5S-112906 were noncompliant for multiple compounds. The other samples had only one dual column noncompliant compound. Positive results with %Ds greater than the 25% QC limit were qualified estimated (J) for this noncompliance.

The positive result for gamma-BHC in sample JAX-47-937MW1S-112906 was not confirmed on both columns and was qualified nondetected estimated (UJ) for this noncompliance.

The reported result for 4,4'-DDD in sample JAX-47-937MW3S-112906 had a 10X dilution applied.

The results for beta-BHC and aldrin in sample JAX-47-937MW3S-112906 were beyond the linear calibration range and were qualified estimated (J) in this sample for this noncompliance.

The results for delta-BHC and aldrin in sample JAX-47-937MW5S-112906 were beyond the linear calibration range and were qualified estimated (J) in this sample for this noncompliance.

Additional Comments:

Positive results less than the method reporting limit (MRL) were qualified as estimated (J), due to uncertainty near the detection limit.

The lab reported to the method reporting limits (MRL) on sample form Is and reported down to method detection limits (MDL) in the database.

Matrix spike/matrix spike duplicate (MS/MSD) %Rs were high for 4-chloroaniline, 3-nitroaniline, 4-nitroaniline, N-nitrosodiphenylamine and carbazole. No action was taken because all results were nondetected.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Acetone was detected in the method blank and qualifications were made for positive results. Qualifications were made for a few initial calibration %RSD for VOCs. Several VOC and SVOC compounds had noncompliant continuing calibration %Ds and were qualified accordingly.

Other Factors Affecting Data Quality: Several LCS and MS/MSD %R noncompliances were noted affecting both VOCs and SVOCs. Multiple dual column %D noncompliances were noted for pesticide analysis.

TO: MARK PETERSON – PAGE 4
DATE: MARCH 7, 2007

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the Department of Defense (DoD) Quality Systems Manual (QSM) (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Preston R Smith
Environmental Scientist

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-937MW1S-112906	nsample	JAX-47-937MW1S-112906	nsample	JAX47-937MW3S-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-01	lab_id	B610310-01	lab_id	B610310-07
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	17		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	J	P
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	1.5	J	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.5	J	P
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	1	J	P
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.7	J	P
1,2,4-TRICHLOROBENZENE	2.5		
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	13.3	U	A
BENZENE	3.3		
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.6	J	PE
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	564		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-937MW3S-112906
samp_date	11/29/2006
lab_id	B610310-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	9.9		
ISOPROPYLBENZENE	1	J	E
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	3.9	J	C
TOLUENE	1	J	PE
TOTAL XYLENES	22.7		
TRANS-1,2-DICHLOROETHENE	4.2		
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	7.4		
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	1.9		

nsample	JAX-47-937MW5S-112906
samp_date	11/29/2006
lab_id	B610310-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.3	J	PE
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2.4	U	A
BENZENE	14.6		
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	2.7	J	E
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	936		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

nsample	JAX-47-937MW5S-112906
samp_date	11/29/2006
lab_id	B610310-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.9	J	P
ETHYLBENZENE	135		
ISOPROPYLBENZENE	3.6	J	E
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.9	J	PC
TOLUENE	21.9	J	E
TOTAL XYLENES	914		
TRANS-1,2-DICHLOROETHENE	2.5		
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	2		
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	5.5		

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-EB03	nsample	JAX-47-EB03	nsample	JAX-47-EB04
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-03	lab_id	B610310-03	lab_id	B610310-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.3	J	P
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	4.3	J	P
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	9.2		
BENZENE	0.2	J	P
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	1.3		
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.4	J	P
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	12.6	J	E
TOTAL XYLENES	0.5	J	P
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.2	J	P
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	3	J	P
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	8		
BENZENE	0.2	J	P
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	1.4		
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-EB04
samp_date	11/29/2006
lab_id	B610310-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	13	J	E
TOTAL XYLENES	0.6	J	P
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	JAX-47-MW15D-112906
samp_date	11/29/2006
lab_id	B610310-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.6	J	P
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	4.8		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	1.5		

nsample	JAX-47-MW15D-112906
samp_date	11/29/2006
lab_id	B610310-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	1.7	J	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.7	J	P
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OV

nsample	JAX-47-MW15S-112906	nsample	JAX-47-MW15S-112906	nsample	Trip Blank #3
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/30/2006
lab_id	B610310-06	lab_id	B610310-06	lab_id	B610310-08
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OV

nsample	Trip Blank #3
samp_date	11/30/2006
lab_id	B610310-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	Trip Blank #4
samp_date	11/30/2006
lab_id	B610310-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2.8	J	P
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

nsample	Trip Blank #4
samp_date	11/30/2006
lab_id	B610310-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-937MW1S-112906	nsample	JAX-47-937MW1S-112906	nsample	JAX-47-937MW1S-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-01	lab_id	B610310-01	lab_id	B610310-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	U	
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

nsample	JAX47-937MW3S-112906
samp_date	11/29/2006
lab_id	B610310-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2720		
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	529		
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

nsample	JAX47-937MW3S-112906
samp_date	11/29/2006
lab_id	B610310-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	11		
PHENANTHRENE	1	U	
PHENOL	2	U	

nsample	JAX47-937MW3S-112906
samp_date	11/29/2006
lab_id	B610310-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-937MW5S-112906
samp_date	11/29/2006
lab_id	B610310-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	16		
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	6	J	P
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

nsample	JAX-47-937MW5S-112906
samp_date	11/29/2006
lab_id	B610310-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	21		
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	U	
PHENANTHRENE	1	U	
PHENOL	2	U	

nsample	JAX-47-937MW5S-112906
samp_date	11/29/2006
lab_id	B610310-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-EB03	nsample	JAX-47-EB03	nsample	JAX-47-EB03
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-03	lab_id	B610310-03	lab_id	B610310-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	U	
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-EB04
samp_date	11/29/2006
lab_id	B610310-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

nsample	JAX-47-EB04
samp_date	11/29/2006
lab_id	B610310-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	U	
PHENANTHRENE	1	U	
PHENOL	2	U	

nsample	JAX-47-EB04
samp_date	11/29/2006
lab_id	B610310-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-MW15D-112906	nsample	JAX-47-MW15D-112906	nsample	JAX-47-MW15D-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-05	lab_id	B610310-05	lab_id	B610310-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	U	
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: OS

nsample	JAX-47-MW15S-112906	nsample	JAX-47-MW15S-112906	nsample	JAX-47-MW15S-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-06	lab_id	B610310-06	lab_id	B610310-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	U	
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-937MW1S-112906	nsample	JAX47-937MW3S-112906	nsample	JAX-47-937MW5S-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-01	lab_id	B610310-07RE1	lab_id	B610310-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.004	J	PU
ALPHA-CHLORDANE	0.005	J	PU
BETA-BHC	0.002	U	
DELTA-BHC	0.02	J	PU
DIELDRIN	0.003	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.072	J	U
ENDRIN	0.002	J	PU
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	UJ	Q
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.013	J	PU
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.075	J	U
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	13	J	R
4,4'-DDE	0.094	J	RU
4,4'-DDT	0.013	J	PRU
ALDRIN	2.6	J	LRU
ALPHA-BHC	0.64	J	R
ALPHA-CHLORDANE	0.14	J	RU
BETA-BHC	1.1	J	LRU
DELTA-BHC	1.1	J	R
DIELDRIN	0.32	J	RU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.009	J	PRU
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.23	J	R
GAMMA-BHC (LINDANE)	1.1	J	R
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.018	J	PRU
HEPTACHLOR EPOXIDE	0.036	J	PRU
METHOXYCHLOR	0.025	J	PRU
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.076	J	U
4,4'-DDE	0.13	J	U
4,4'-DDT	0.002	U	
ALDRIN	3.8	J	LU
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.58	J	U
BETA-BHC	0.002	U	
DELTA-BHC	4	J	LU
DIELDRIN	0.018	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.21	J	U
ENDRIN	0.044	J	PU
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	1	J	U
GAMMA-BHC (LINDANE)	0.058	J	U
GAMMA-CHLORDANE	0.039	J	PU
HEPTACHLOR	0.029	J	PU
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	1.1	J	U
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-EB03	nsample	JAX-47-EB04	nsample	JAX-47-MW15D-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-03	lab_id	B610310-04	lab_id	B610310-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.026	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.002	J	P
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.028	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.002	J	P
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.002	J	PU
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX-47-MW15S-112906
samp_date	11/29/2006
lab_id	B610310-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	J	P
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610310-01 File ID: 7LC009.D

Sampled: 11/29/06 13:48 Prepared: 12/07/06 09:00 Analyzed: 12/07/06 18:53

Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 6L07026 Sequence: BA00113 Calibration: 0612011 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0	U	
74-83-9	Bromomethane	1	1.0	U J	for L
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	5.0	U	
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	0.2	J	P
156-60-5	trans-1,2-Dichloroethene	1	0.5	J	P
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
156-59-2	cis-1,2-Dichloroethene	1	17.0		
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	1.0	U	
71-43-2	Benzene	1	1.0	U	
79-01-6	Trichloroethene	1	1.0	J	for P
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.0	U	
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	U J	for L
127-18-4	Tetrachloroethene	1	1.5	J	for L
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	1.0	U	
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	U J	for L
98-82-8	Isopropylbenzene	1	1.0	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-01	File ID:	7LC009.D
Sampled:	11/29/06 13:48	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 18:53
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.1	92	85 - 115	
Toluene-d8	50.0	46.7	93	85 - 120	
4-Bromofluorobenzene	50.0	43.9	88	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	372587	11.43	281111	11.44	
1,4-Difluorobenzene	781668	12.09	656353	12.1	
Chlorobenzene-d5	705206	15.28	767753	15.28	
1,4-Dichlorobenzene-d4	279688	17.46	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-07RE1	File ID:	7LD005.D
Sampled:	11/29/06 16:00	Prepared:	12/07/06 09:00	Analyzed:	12/08/06 11:37
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethene	10	564	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.6	95	85 - 115	
Toluene-d8	50.0	49.0	98	85 - 120	
4-Bromofluorobenzene	50.0	45.5	91	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	317486	11.42	326390	11.41	
1,4-Difluorobenzene	675483	12.08	711773	12.07	
Chlorobenzene-d5	607846	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	246601	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-07	File ID:	7LC016.D
Sampled:	11/29/06 16:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 22:28
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011	Instrument:	JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.9		
74-83-9	Bromomethane	1	1.0	UJ	for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	0.7	J	
67-64-1	Acetone	1	13.3	JB	A
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	4.2		
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	1.0	U	
71-43-2	Benzene	1	3.3		
79-01-6	Trichloroethene	1	7.4		
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.0	J	P or E?
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	UJ	for C
127-18-4	Tetrachloroethene	1	3.9	J	for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	0.6	J	for P or E
100-41-4	Ethylbenzene	1	9.9		
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	UJ	for C
98-82-8	Isopropylbenzene	1	1.0	J	E
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-07	File ID:	7LC016.D
Sampled:	11/29/06 16:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 22:28
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	2.5	
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	22.7	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.8	96	85 - 115	
Toluene-d8	50.0	49.2	98	85 - 120	
4-Bromofluorobenzene	50.0	43.5	87	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	286899	11.43	281111	11.44	
1,4-Difluorobenzene	610117	12.09	656353	12.1	
Chlorobenzene-d5	571827	15.27	767753	15.28	
1,4-Dichlorobenzene-d4	233869	17.46	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-937MW5S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-02RE1	File ID:	7LD006.D
Sampled:	11/29/06 16:00	Prepared:	12/07/06 09:00	Analyzed:	12/08/06 12:08
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC (ug/L)	Q
156-59-2	cis-1,2-Dichloroethene	10	936	D
NA	Xylenes (Total)	10	914	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	48.8	98	85 - 115	
Toluene-d8	50.0	48.3	97	85 - 120	
4-Bromofluorobenzene	50.0	44.8	90	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	310322	11.42	326390	11.41	
1,4-Difluorobenzene	682245	12.08	711773	12.07	
Chlorobenzene-d5	620663	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	253970	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-937MW5S-112906

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610310-02 File ID: 7LC017.D

Sampled: 11/29/06 16:00 Prepared: 12/07/06 09:00 Analyzed: 12/07/06 22:59

Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 6L07026 Sequence: BA00113 Calibration: 0612011 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	5.5		
74-83-9	Bromomethane	1	1.0	UJ	for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	2.4	UJ	A
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	2.5		
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	1.0	U	
71-43-2	Benzene	1	14.6		
79-01-6	Trichloroethene	1	2.0		
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	21.9	J	for E
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	UJ	for C
127-18-4	Tetrachloroethene	1	0.9	J	for P or C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	2.7	J	for E
100-41-4	Ethylbenzene	1	135		
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	UJ	for C
98-82-8	Isopropylbenzene	1	3.6	J	for E
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U	

LCS

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-937MW5S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-02	File ID:	7LC017.D
Sampled:	11/29/06 16:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 22:59
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.3	(J)
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	0.9	(J)
76-13-1	Freon 113	1	1.0	U

for PE

for P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.4	95	85 - 115	
Toluene-d8	50.0	48.6	97	85 - 120	
4-Bromofluorobenzene	50.0	45.4	91	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	313836	11.43	281111	11.44	
1,4-Difluorobenzene	668418	12.09	656353	12.1	
Chlorobenzene-d5	628684	15.27	767753	15.28	
1,4-Dichlorobenzene-d4	265412	17.45	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-EB03

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-03	File ID:	7LC012.D
Sampled:	11/29/06 17:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 20:25
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence: BA00113		Calibration: 0612011	Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0	U	
74-83-9	Bromomethane	1	1.0	UJ	for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	9.2	B UJ	A
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	4.3	J	P
156-59-2	cis-1,2-Dichloroethene	1	1.0	U	
67-66-3	Chloroform	1	1.3		
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	0.3	J	P
71-43-2	Benzene	1	0.2	J	P
79-01-6	Trichloroethene	1	1.0	U	
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	12.6	J	for E
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	UJ	for C
127-18-4	Tetrachloroethene	1	1.0	UJ	for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	1.0	U	
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	0.4	J	P
75-25-2	Bromoform	1	1.0	UJ	for C
98-82-8	Isopropylbenzene	1	1.0	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-EB03

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-03	File ID:	7LC012.D
Sampled:	11/29/06 17:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 20:25
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	0.5	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	49.1	98	85 - 115	
Toluene-d8	50.0	46.0	92	85 - 120	
4-Bromofluorobenzene	50.0	45.2	90	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	340548	11.43	281111	11.44	
1,4-Difluorobenzene	762467	12.09	656353	12.1	
Chlorobenzene-d5	673654	15.28	767753	15.28	
1,4-Dichlorobenzene-d4	265444	17.46	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-EB04

Laboratory: ENCO Jacksonville | SDG: BR006-009

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610310-04 | File ID: 7LC013.D

Sampled: 11/29/06 14:00 | Prepared: 12/07/06 09:00 | Analyzed: 12/07/06 20:56

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L07026 | Sequence: BA00113 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0	U	
74-83-9	Bromomethane	1	1.0	UJ	for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	8.0	UJ (B)	for A
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	3.0	(J)	P
156-59-2	cis-1,2-Dichloroethene	1	1.0	U	
67-66-3	Chloroform	1	(1.4)		
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	0.2	(J)	P
71-43-2	Benzene	1	0.2	(J)	P
79-01-6	Trichloroethene	1	1.0	U	
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	(5.0)	U	
108-88-3	Toluene	1	13.0	J	E
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	UJ	for C
127-18-4	Tetrachloroethene	1	1.0	UJ	for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	1.0	U	
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	UJ	for C
98-82-8	Isopropylbenzene	1	1.0	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-EB04

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-04	File ID:	7LC013.D
Sampled:	11/29/06 14:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 20:56
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	0.6	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.6	93	85 - 115	
Toluene-d8	50.0	48.5	97	85 - 120	
4-Bromofluorobenzene	50.0	44.3	89	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	342488	11.43	281111	11.44	
1,4-Difluorobenzene	727794	12.09	656353	12.1	
Chlorobenzene-d5	658378	15.28	767753	15.28	
1,4-Dichlorobenzene-d4	269561	17.46	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-MW15D-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-05	File ID:	7LC014.D
Sampled:	11/29/06 15:35	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 21:27
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0	U	
74-83-9	Bromomethane	1	1.0	UJ	for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	5.0	U	
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
156-59-2	cis-1,2-Dichloroethene	1	4.8		
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	1.0	U	
71-43-2	Benzene	1	0.6	J	P
79-01-6	Trichloroethene	1	0.7	J	P
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.0	U	
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.5		
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.7	J	for C
127-18-4	Tetrachloroethene	1	1.0	UJ	for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	1.0	U	
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	UJ	for C
98-82-8	Isopropylbenzene	1	1.0	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-MW15D-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-05	File ID:	7LC014.D
Sampled:	11/29/06 15:35	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 21:27
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	48.1	96	85 - 115	
Toluene-d8	50.0	47.6	95	85 - 120	
4-Bromofluorobenzene	50.0	44.5	89	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	331569	11.43	281111	11.44	
1,4-Difluorobenzene	725735	12.09	656353	12.1	
Chlorobenzene-d5	649585	15.28	767753	15.28	
1,4-Dichlorobenzene-d4	262760	17.46	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-MW15S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-06	File ID:	7LC015.D
Sampled:	11/29/06 16:35	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 21:57
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0	U	
74-83-9	Bromomethane	1	1.0	UJ	for L.
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	5.0	U	
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
156-59-2	cis-1,2-Dichloroethene	1	1.0	U	
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	1.0	U	
71-43-2	Benzene	1	1.0	U	
79-01-6	Trichloroethene	1	1.0	U	
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.0	U	
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	UJ	for L.
127-18-4	Tetrachloroethene	1	1.0	UJ	for L.
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	1.0	U	
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	UJ	for L.
98-82-8	Isopropylbenzene	1	1.0	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX-47-MW15S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-06	File ID:	7LC015.D
Sampled:	11/29/06 16:35	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 21:57
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	45.8	92	85 - 115	
Toluene-d8	50.0	48.2	96	85 - 120	
4-Bromofluorobenzene	50.0	44.0	88	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	333217	11.43	281111	11.44	
1,4-Difluorobenzene	714626	12.09	656353	12.1	
Chlorobenzene-d5	654422	15.28	767753	15.28	
1,4-Dichlorobenzene-d4	249786	17.46	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

Trip Blank #3

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	B610310-08	File ID:	7LC010.D
Sampled:	11/30/06 00:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 19:24
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0	U	
74-83-9	Bromomethane	1	1.0	UJ	for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	5.0	U	
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
156-59-2	cis-1,2-Dichloroethene	1	1.0	U	
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	1.0	U	
71-43-2	Benzene	1	1.0	U	
79-01-6	Trichloroethene	1	1.0	U	
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.0	U	
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	UJ	for C
127-18-4	Tetrachloroethene	1	1.0	UJ	for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	1.0	U	
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	UJ	for C
98-82-8	Isopropylbenzene	1	1.0	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

Trip Blank #3

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	B610310-08	File ID:	7LC010.D
Sampled:	11/30/06 00:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 19:24
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.1	94	85 - 115	
Toluene-d8	50.0	47.4	95	85 - 120	
4-Bromofluorobenzene	50.0	45.0	90	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	360068	11.43	281111	11.44	
1,4-Difluorobenzene	773291	12.09	656353	12.1	
Chlorobenzene-d5	693295	15.28	767753	15.28	
1,4-Dichlorobenzene-d4	280984	17.45	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

Trip Blank #4

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	B610310-09	File ID:	7LC011.D
Sampled:	11/30/06 00:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 19:54
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011	Instrument:	JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0	U	
74-83-9	Bromomethane	1	1.0	UJ	for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	2.8	(JB) UJ	A
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
156-59-2	cis-1,2-Dichloroethene	1	1.0	U	
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	1.0	U	
71-43-2	Benzene	1	1.0	U	
79-01-6	Trichloroethene	1	1.0	U	
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.0	U	
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	UJ	for C
127-18-4	Tetrachloroethene	1	1.0	UJ	for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	1.0	U	
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	UJ	for C
98-82-8	Isopropylbenzene	1	1.0	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

Trip Blank #4

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	B610310-09	File ID:	7LC011.D
Sampled:	11/30/06 00:00	Prepared:	12/07/06 09:00	Analyzed:	12/07/06 19:54
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.3	93	85 - 115	
Toluene-d8	50.0	47.6	95	85 - 120	
4-Bromofluorobenzene	50.0	45.8	92	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	357630	11.44	281111	11.44	
1,4-Difluorobenzene	755802	12.1	656353	12.1	
Chlorobenzene-d5	667595	15.27	767753	15.28	
1,4-Dichlorobenzene-d4	273813	17.46	360795	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-01	File ID:	5L5011.D
Sampled:	11/29/06 13:48	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 15:29
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	UJ
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-01	File ID:	5L5011.D
Sampled:	11/29/06 13:48	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 15:29
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	33.0	33	15 - 134	
Phenol-d5	100	19.4	19	10 - 94	
Nitrobenzene-d5	50.0	30.8	62	10 - 125	
2-Fluorobiphenyl	50.0	28.4	57	15 - 134	
2,4,6-Tribromophenol	100	95.5	96	10 - 189	
Terphenyl-d14	50.0	45.7	91	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	216427	4.8	203380	4.8	
Naphthalene-d8	712152	6	693884	6	
Acenaphthene-d10	474202	7.73	459042	7.73	
Phenanthrene-d10	837884	9.22	793131	9.22	
Chrysene-d12	988898	11.86	875583	11.86	
Perylene-d12	1021653	13.25	732497	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-07RE2	File ID:	5LA004.D
Sampled:	11/29/06 16:00	Prepared:	12/04/06 07:15	Analyzed:	12/06/06 11:27
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6L04001 Sequence: BA00100 Calibration: 0612007 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-95-4	2,4,5-Trichlorophenol	100	2720	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Terphenyl-d14	50.0	31.0	62	50 - 135	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	188884	4.8	270219	4.8	
Naphthalene-d8	582693	6	956174	6	
Acenaphthene-d10	439699	7.73	622308	7.73	
Phenanthrene-d10	766810	9.22	1118783	9.22	
Chrysene-d12	927897	11.86	1518383	11.87	
Perylene-d12	918866	13.25	1492060	13.26	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-07RE1	File ID:	5L5026.D
Sampled:	11/29/06 16:00	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 21:31
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
120-83-2	2,4-Dichlorophenol	20	529	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	182475	4.8	203380	4.8	
Naphthalene-d8	627519	6	693884	6	
Acenaphthene-d10	419422	7.73	459042	7.73	
Phenanthrene-d10	743511	9.22	793131	9.22	
Chrysene-d12	908609	11.86	875583	11.86	
Perylene-d12	946514	13.25	732497	13.25	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-07	File ID:	5L5017.D
Sampled:	11/29/06 16:00	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 17:52
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	UJ
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	11	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-07	File ID:	5L5017.D
Sampled:	11/29/06 16:00	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 17:52
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	32.6	33	15 - 134	
Phenol-d5	100	22.3	22	10 - 94	
Nitrobenzene-d5	50.0	33.5	67	10 - 125	
2-Fluorobiphenyl	50.0	23.0	46	15 - 134	
2,4,6-Tribromophenol	100	102	102	10 - 189	
Terphenyl-d14	50.0	48.9	98	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	239616	4.8	203380	4.8	
Naphthalene-d8	832390	6	693884	6	
Acenaphthene-d10	516433	7.73	459042	7.73	
Phenanthrene-d10	984524	9.22	793131	9.22	
Chrysene-d12	1253250	11.88	875583	11.86	
Perylene-d12	1283357	13.26	732497	13.25	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-937MW5S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-02	File ID:	5L5012.D
Sampled:	11/29/06 16:00	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 15:53
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-95-2	Phenol	1	10	U	
111-44-4	Bis(2-chloroethyl)ether	1	10	U	
95-57-8	2-Chlorophenol	1	10	U	
95-48-7	2-Methylphenol	1	6	J	P
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U	
106-44-5	3 & 4-Methylphenol	1	10	U	
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	
67-72-1	Hexachloroethane	1	10	U	
98-95-3	Nitrobenzene	1	10	U	
78-59-1	Isophorone	1	10	U	
88-75-5	2-Nitrophenol	1	10	U	
105-67-9	2,4-Dimethylphenol	1	16		
111-91-1	Bis(2-chloroethoxy)methane	1	10	U	
120-83-2	2,4-Dichlorophenol	1	10	U	
91-20-3	Naphthalene	1	21		
106-47-8	4-Chloroaniline	1	10	U	
87-68-3	Hexachlorobutadiene	1	10	U	
59-50-7	4-Chloro-3-methylphenol	1	10	U	
91-57-6	2-Methylnaphthalene	1	10	U	
77-47-4	Hexachlorocyclopentadiene	1	10	U	
88-06-2	2,4,6-Trichlorophenol	1	10	U	
95-95-4	2,4,5-Trichlorophenol	1	10	U	
91-58-7	2-Chloronaphthalene	1	10	U	
88-74-4	2-Nitroaniline	1	10	U	
131-11-3	Dimethylphthalate	1	10	U	
606-20-2	2,6-Dinitrotoluene	1	10	U	
208-96-8	Acenaphthylene	1	10	U	
99-09-2	3-Nitroaniline	1	10	UJ	C
83-32-9	Acenaphthene	1	10	U	
51-28-5	2,4-Dinitrophenol	1	10	U	
100-02-7	4-Nitrophenol	1	10	U	
132-64-9	Dibenzofuran	1	10	U	
121-14-2	2,4-Dinitrotoluene	1	10	U	
84-66-2	Diethylphthalate	1	10	U	
7005-72-3	4-Chlorophenyl-phenylether	1	10	U	
86-73-7	Fluorene	1	10	U	
100-01-6	4-Nitroaniline	1	10	U	
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U	
86-30-6	N-Nitrosodiphenylamine	1	10	U	
101-55-3	4-Bromophenyl-phenylether	1	10	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-937MW5S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-02	File ID:	5L5012.D
Sampled:	11/29/06 16:00	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 15:53
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	41.7	42	15 - 134	
Phenol-d5	100	22.7	23	10 - 94	
Nitrobenzene-d5	50.0	31.8	64	10 - 125	
2-Fluorobiphenyl	50.0	31.2	62	15 - 134	
2,4,6-Tribromophenol	100	106	106	10 - 189	
Terphenyl-d14	50.0	42.5	85	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	238244	4.8	203380	4.8	
Naphthalene-d8	830825	6	693884	6	
Acenaphthene-d10	562618	7.73	459042	7.73	
Phenanthrene-d10	1038690	9.22	793131	9.22	
Chrysene-d12	1232094	11.86	875583	11.86	
Perylene-d12	1265469	13.25	732497	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-EB03

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-03	File ID:	5L5013.D
Sampled:	11/29/06 17:00	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 16:17
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	UJ
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-EB03

Laboratory: ENCO Jacksonville | SDG: BR006-009

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610310-03 | File ID: 5L5013.D

Sampled: 11/29/06 17:00 | Prepared: 12/04/06 07:15 | Analyzed: 12/05/06 16:17

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 6L04001 | Sequence: BA00080 | Calibration: 0612007 | Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	41.2	41	15 - 134	
Phenol-d5	100	24.7	25	10 - 94	
Nitrobenzene-d5	50.0	37.5	75	10 - 125	
2-Fluorobiphenyl	50.0	33.4	67	15 - 134	
2,4,6-Tribromophenol	100	86.8	87	10 - 189	
Terphenyl-d14	50.0	43.8	88	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	246913	4.8	203380	4.8	
Naphthalene-d8	809557	6	693884	6	
Acenaphthene-d10	560809	7.73	459042	7.73	
Phenanthrene-d10	1010961	9.21	793131	9.22	
Chrysene-d12	1181074	11.86	875583	11.86	
Perylene-d12	1216285	13.25	732497	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-EB04

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-04	File ID:	5L5014.D
Sampled:	11/29/06 14:00	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 16:41
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U J
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-EB04

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-04	File ID:	5L5014.D
Sampled:	11/29/06 14:00	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 16:41
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	31.1	31	15 - 134	
Phenol-d5	100	18.0	18	10 - 94	
Nitrobenzene-d5	50.0	28.4	57	10 - 125	
2-Fluorobiphenyl	50.0	28.2	56	15 - 134	
2,4,6-Tribromophenol	100	80.8	81	10 - 189	
Terphenyl-d14	50.0	43.8	88	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	237400	4.8	203380	4.8	
Naphthalene-d8	771216	5.99	693884	6	
Acenaphthene-d10	517056	7.73	459042	7.73	
Phenanthrene-d10	932068	9.21	793131	9.22	
Chrysene-d12	1072171	11.86	875583	11.86	
Perylene-d12	1124837	13.25	732497	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-MW15D-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-05	File ID:	5L5015.D
Sampled:	11/29/06 15:35	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 17:05
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U J
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-MW15D-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-05	File ID:	5L5015.D
Sampled:	11/29/06 15:35	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 17:05
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	50.0	50	15 - 134	
Phenol-d5	100	31.2	31	10 - 94	
Nitrobenzene-d5	50.0	41.8	84	10 - 125	
2-Fluorobiphenyl	50.0	38.8	78	15 - 134	
2,4,6-Tribromophenol	100	104	104	10 - 189	
Terphenyl-d14	50.0	47.2	94	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	246211	4.8	203380	4.8	
Naphthalene-d8	825356	5.99	693884	6	
Acenaphthene-d10	550230	7.73	459042	7.73	
Phenanthrene-d10	983157	9.21	793131	9.22	
Chrysene-d12	1145956	11.86	875583	11.86	
Perylene-d12	1165118	13.25	732497	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-MW15S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-06	File ID:	5L5016.D
Sampled:	11/29/06 16:35	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 17:29
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	UJ
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX-47-MW15S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-06	File ID:	5L5016.D
Sampled:	11/29/06 16:35	Prepared:	12/04/06 07:15	Analyzed:	12/05/06 17:29
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	43.2	43	15 - 134	
Phenol-d5	100	26.0	26	10 - 94	
Nitrobenzene-d5	50.0	41.1	82	10 - 125	
2-Fluorobiphenyl	50.0	37.7	75	15 - 134	
2,4,6-Tribromophenol	100	96.7	97	10 - 189	
Terphenyl-d14	50.0	45.2	90	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	241996	4.8	203380	4.8	
Naphthalene-d8	777337	5.99	693884	6	
Acenaphthene-d10	519043	7.73	459042	7.73	
Phenanthrene-d10	930206	9.21	793131	9.22	
Chrysene-d12	1100123	11.86	875583	11.86	
Perylene-d12	1167535	13.25	732497	13.25	

PESTICIDES ANALYSIS DATA SHEET

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-01	File ID:	9L1A019-0
Sampled:	11/29/06 13:48	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 22:18
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L01004 Sequence: BA00086 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.004	JP	JR for U
58-89-9	gamma-BHC	1	0.002	J	for U
319-85-7	beta-BHC	1	0.050	U	
319-86-8	delta-BHC	1	0.020	JP	J for U
76-44-8	Heptachlor	1	0.013	JP	JR for U
309-00-2	Aldrin	1	0.050	U	
1024-57-3	Heptachlor epoxide	1	0.050	U	
NA	Chlordane-gamma	1	0.050	U	
NA	Chlordane-alpha	1	0.005	JP	JR for U
72-55-9	4,4'-DDE	1	0.050	U	
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.003	JP	JR for U
72-20-8	Endrin	1	0.002	JP	JR for U
72-54-8	4,4'-DDD	1	0.050	U	
33213-65-9	Endosulfan II	1	0.050	U	
50-29-3	4,4'-DDT	1	0.050	U	
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.075	P	R for U
53494-70-5	Endrin ketone	1	0.050	U	
8001-35-2	Toxaphene	1	1.0	U	
1031-07-8	Endosulfan sulfate	1	0.004 0.075	JP	JR for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.701	70	25 - 140	
DBC	1.00	0.900	90	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-07RE1	File ID:	9L2A032-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/05/06 02:17
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
72-54-8	4,4'-DDD	10	13	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-07	File ID:	9L1A026-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 01:19
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
76-44-8	Heptachlor	1	0.018	JP	JR for U
1024-57-3	Heptachlor epoxide	1	0.036	JP	JR for U
NA	Chlordane-gamma	1	0.050	U	
NA	Chlordane-alpha	1	0.14	P	J for U
959-98-8	Endosulfan I	1	0.050	U	
72-20-8	Endrin	1	0.050	U	
33213-65-9	Endosulfan II	1	0.050	U	
50-29-3	4,4'-DDT	1	0.013	J	JR for U
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.025	JP	JR for U
1031-07-8	Endosulfan sulfate	1	0.009	JP	JR for U
53494-70-5	Endrin ketone	1	0.23		
8001-35-2	Toxaphene	1	1.0	U	
319-84-6	alpha-BHC	1	0.68		J for R
58-89-9	gamma-BHC	1	1.2		J for R
319-85-7	beta-BHC	1	1.1	P	R for U
319-86-8	delta-BHC	1	1.3		J for R
309-00-2	Aldrin	1	0.031	JP	JR for U
72-55-9	4,4'-DDE	1	0.17	P	R for U
60-57-1	Dieldrin	1	0.42	P	J for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	2.69	269	25 - 140	*
DBC	1.00	0.777	J 78	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX-47-937MW5S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-02	File ID:	9L1A020-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 22:44
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L01004 Sequence: BA00086 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.050	U	
58-89-9	gamma-BHC	1	0.058	P	R for U
319-85-7	beta-BHC	1	0.050	U	
76-44-8	Heptachlor	1	0.029	JP	JR for U
1024-57-3	Heptachlor epoxide	1	0.050	U	
NA	Chlordane-gamma	1	0.039	JP	JR for U
NA	Chlordane-alpha	1	0.58	P	J for UR
72-55-9	4,4'-DDE	1	0.13		R for U
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.018	JP	JR for U
72-20-8	Endrin	1	0.044	JP	JR for U
72-54-8	4,4'-DDD	1	0.076		R for U
33213-65-9	Endosulfan II	1	0.050	U	
50-29-3	4,4'-DDT	1	0.050	U	
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	1.1	P	J for UR
1031-07-8	Endosulfan sulfate	1	0.21	P	R for U
53494-70-5	Endrin ketone	1	1.0	P	R for U
8001-35-2	Toxaphene	1	1.0	U	
319-86-8	delta-BHC	1	1.0	P	R for U
309-00-2	Aldrin	1	0.65	P	R for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.741	74	25 - 140	
DBC	1.00	2.27	227	30 - 135	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX-47-EB03

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-03	File ID:	9L1A021-0
Sampled:	11/29/06 17:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 23:10
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.002	J J for P
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U
60-57-1	Dieldrin	1	0.004	JP JQ for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.633	63	25 - 140	
DBC	1.00	0.753	75	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX-47-EB04

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-04	File ID:	9L1A022-0
Sampled:	11/29/06 14:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 23:36
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.002	J J for P
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4′-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4′-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4′-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U
60-57-1	Dieldrin	1	0.003	JP JP for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.586	59	25 - 140	
DBC	1.00	0.726	73	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX-47-MW15D-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-05	File ID:	9L1A023-0
Sampled:	11/29/06 15:35	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 00:02
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.002	JP JP for U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4′-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4′-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4′-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.691	69	25 - 140	
DBC	1.00	0.780	78	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX-47-MW15S-112906

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610310-06	File ID:	9L1A024-0
Sampled:	11/29/06 16:35	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 00:28
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.002	J J for P
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.596	60	25 - 140	
DBC	1.00	0.641	64	30 - 135	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-009

Lab Sample ID	Client Sample ID
B610310-01	JAX-47-937MW1S-112906
B610310-02	JAX-47-937MW5S-112906
B610310-03	JAX-47-EB03
B610310-04	JAX-47-EB04
B610310-05	JAX-47-MW15D-112906
B610310-06	JAX-47-MW15S-112906
B610310-07	JAX47-937MW3S-112906
B610310-08	Trip Blank #3
B610310-09	Trip Blank #4

Volatiles

Method: The samples were analyzed by USEPA Method 8260B (VOA vial field sampling followed by purge and trap then capillary column GC/MS). Water samples were received into the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Trip Blank #3 and Trip Blank #4 were received for analysis but not noted on the chain of custody. Samples were analyzed per client request.
- The following samples reported positive results for acetone which is one of the materials referred to as "common laboratory solvents": JAX-47-937MW5S-112906, JAX-47-EB03, JAX-47-EB04, JAX47-937MW3S-112906 and Trip Blank #4. Their presence is suspected as being due to laboratory contamination. The associated method blank and matrix spike results for this component indicates that this contamination is of a sporadic and irregular nature, and may not be actually present in the samples. The Florida Department of Environmental Protection forbids the use of "blank subtraction" on such results, and requires that all positive data determined be reported as analyzed, with appropriate data qualifiers if necessary.
- JAX-47-EB03 and JAX-47-EB04 are equipment blanks which took positive results for toluene. Samples were re-analyzed outside method specified hold time with results confirming the original run. JAX-47-EB03 confirmation analysis resulted in 11.3ug/L for toluene and JAX-47-EB04 resulted in 11.5ug/L for toluene.
- Matrix Spike and Matrix Spike Duplicate failed DoD QSM specified control limits for dichlorodifluoromethane, chloromethane, bromomethane, isopropylbenzene, 1,2 dichlorobenzene, and 1,4-Dichlorobenzene. Samples were accepted based on the Laboratory Control Standard and based on passing %RPD values.
- The Laboratory Control Standard was outside the DoD QSM specified control limits. Upon re-analysis within a 24 hour period the Laboratory Control Standard passed the specified control limits for all compounds except chloromethane. The results of this compound should be considered estimated and bias high. Samples in the batch did not have any results for chloromethane so the data was accepted.
- Continuing Calibration Standard were outside established limits for several compounds however CCC and SPCC compounds passed.

Metals

Method: The samples were extracted by USEPA Method 3050b and analyzed by EPA Method 6010b. Water samples were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3545/8270c. Water samples were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Matrix Spike and Matrix Spike Duplicate were outside the established control limits. Data was accepted based on Laboratory Control Standard and %RPD recovery passing.
- Laboratory Control Standard was above the control limits for several compounds. Samples were clean for those compounds and data was accepted.
- Continuing Calibration Standard were outside established limits for several compounds however CCC and SPCC compounds passed.

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3545/8081a. Water samples were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- DBC surrogate recovery was outside the DoD QSM control limit for JAX-47-937MW5S-112906 due to matrix interference, however the recovery passed using Column B with a result of 120%.
- TCMX surrogate recovery was outside the established control limit on both columns due to sample matrix.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:
Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.10 10:37:26 -05'00'

Christina M. Tompkins
Project Manager

B610306
B610307
B610308
B610309
B610310

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-11302006-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/28/2006	JAX47-SB064-01-112806	14:01	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB064-06-112806	14:16	**SW-846 6010B or 6020**	JAX47-SB064	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-01-112806	10:08	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB065-06-112806	10:16	**SW-846 6010B or 6020**	JAX47-SB065	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-01-112806	09:38	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB066-06-112806	09:50	**SW-846 6010B or 6020**	JAX47-SB066	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-01-112806	15:49	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB067-06-112806	15:56	**SW-846 6010B or 6020**	JAX47-SB067	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-01-112806	11:47	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB068-07-112806	13:11	**SW-846 6010B or 6020**	JAX47-SB068	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-01-112806	11:23	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB069-07-112806	11:36	**SW-846 6010B or 6020**	JAX47-SB069	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB070-01-112806	10:27	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB070-06-112806	10:46	**SW-846 6010B or 6020**	JAX47-SB070	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-01-112806	15:39	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB071-06-112806	16:02	**SW-846 6010B or 6020**	JAX47-SB071	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-01-112806	13:40	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB072-06-112806	13:50	**SW-846 6010B or 6020**	JAX47-SB072	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-01-112806	14:52	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB073-06-112806	16:24	**SW-846 6010B or 6020**	JAX47-SB073	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-01-112806	14:50	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB074-06-112806	16:20	**SW-846 6010B or 6020**	JAX47-SB074	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-01-112806	15:32	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB075-06-112806	16:14	**SW-846 6010B or 6020**	JAX47-SB075	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-01-112806	15:18	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB076-06-112806	16:32	**SW-846 6010B or 6020**	JAX47-SB076	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-01-112806	14:38	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB077-06-112806	15:07	**SW-846 6010B or 6020**	JAX47-SB077	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-01-112806	14:00	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 8081A**	JAX47-SB094	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB094-06-112806	14:25	**SW-846 6010B or 6020**	JAX47-SB094	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-01-112806	14:41	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 8081A**	JAX47-SB095	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB095-06-112806	14:46	**SW-846 6010B or 6020**	JAX47-SB095	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 8081A**	JAX47-SB101	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-05-112906	14:35	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-01-112906	14:49	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 6010B or 6020**	JAX47-SB102	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB102-05-112906	15:03	**SW-846 8081A**	JAX47-SB102	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-01-112906	10:35	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 6010B or 6020**	JAX47-SB103	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB103-05-112906	11:00	**SW-846 8081A**	JAX47-SB103	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 6010B or 6020**	JAX47-SB104	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-01-112906	10:03	**SW-846 8081A**	JAX47-SB104	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 6010B or 6020**	JAX47-SB104~~-05-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB104-05-112906	10:14	**SW-846 8081A**	JAX47-SB104~~-05-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-01-112906	08:33	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 6010B or 6020**	JAX47-SB108	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB108-06-112906	08:49	**SW-846 8081A**	JAX47-SB108	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-01-112906	09:19	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 8081A**	JAX47-SB109	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB109-06-112906	09:45	**SW-846 6010B or 6020**	JAX47-SB109	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/29/2006	JAX47-SB111-01-112906	13:12	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 6010B or 6020**	JAX47-SB111	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB111-05-112906	13:20	**SW-846 8081A**	JAX47-SB111	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-01-112906	12:52	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 8081A**	JAX47-SB112	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB112-05-112906	13:00	**SW-846 6010B or 6020**	JAX47-SB112	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 8081A**	JAX47-SB113	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-01-112906	09:02	**SW-846 6010B or 6020**	JAX47-SB113	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 6010B or 6020**	JAX47-SB113~~-06-112906~~	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB113-06-112906	09:15	**SW-846 8081A**	JAX47-SB113~~-06-112906~~	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Scott McGuire	11/30/2006	07:43	**Hand Deliver**	11/30/2006	08:43
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chad McG	11-30-06	1130	[signature]	11/30/06	1135 H
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L07026-BLK1	File ID:	7LC004.D
Prepared:	12/07/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 16:19	Instrument:	JVGCMS1		
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	7.36	
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	0.4	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
110-82-7	Cyclohexane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-20-9	Methyl acetate	1.0	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L07026-BLK1	File ID:	7LC004.D
Prepared:	12/07/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 16:19	Instrument:	JVGCMS1		
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-87-2	Methyl cyclohexane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
60-29-7	Diethyl ether	1.0	U
76-13-1	Freon 113	1.0	U
NA	Xylenes (Total)	1.0	U

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
76-14-2	Freon 114		EST. CONC. (ug/L)	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	51.2	102	85 - 115	
Toluene-d8	50.0	49.4	99	85 - 120	
4-Bromofluorobenzene	50.0	48.1	96	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	278051	11.44	281111	11.44	
1,4-Difluorobenzene	663434	12.1	656353	12.1	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L07026-BLK1	File ID:	7LC004.D
Prepared:	12/07/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 16:19	Instrument:	JVGCMS1		
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5	735610	15.28	767753	15.28	
1,4-Dichlorobenzene-d4	330158	17.46	360795	17.46	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L07026-BLK2	File ID:	7LD004.D
Prepared:	12/08/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/08/06 11:06	Instrument:	JVGCMS1		
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	2.14	J
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	0.4	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
110-82-7	Cyclohexane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-20-9	Methyl acetate	1.0	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L07026-BLK2	File ID:	7LD004.D
Prepared:	12/08/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/08/06 11:06	Instrument:	JVGCMS1		
Batch:	6L07026	Sequence:	BA00113	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-87-2	Methyl cyclohexane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
60-29-7	Diethyl ether	1.0	U
76-13-1	Freon 113	1.0	U
NA	Xylenes (Total)	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.0	92	85 - 115	
Toluene-d8	50.0	47.7	95	85 - 120	
4-Bromofluorobenzene	50.0	44.2	88	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	329500	11.41	326390	11.41	
1,4-Difluorobenzene	711083	12.07	711773	12.07	
Chlorobenzene-d5	629776	15.27	641086	15.26	
1,4-Dichlorobenzene-d4	251322	17.45	262054	17.45	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L01004-BLK1	File ID:	9L1A015-0
Prepared:	12/01/06 09:15	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/01/06 20:34	Instrument:	JSVGCECD2		
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4′-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4′-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4′-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.0	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L01004-BLK1	File ID:	9L1B015-0
Prepared:	12/01/06 09:15	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/01/06 20:34	Instrument:	JSVGCECD2		
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.765	76	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.765	76	25 - 140	
DBC	1.00	0.877	88	30 - 135	
DBC [2C]	1.00	0.871	87	30 - 135	

METHOD DETECTION AND REPORTING LIMITS

EPA 8260B

Laboratory: ENCO Jacksonville **SDG:** BR006-009

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JVGCMS1

Analyte	MDL	MRL	Units
Dichlorodifluoromethane	0.300	1	ug/L
Chloromethane	0.300	1	ug/L
Vinyl chloride	0.400	1	ug/L
Bromomethane	0.600	1	ug/L
Chloroethane	0.300	1	ug/L
Trichlorofluoromethane	0.300	1	ug/L
1,1-Dichloroethene	0.200	1	ug/L
Acetone	2	5	ug/L
Carbon disulfide	0.900	5	ug/L
Methylene Chloride	2	2	ug/L
Methyl-tert-Butyl Ether	0.200	1	ug/L
trans-1,2-Dichloroethene	0.200	1	ug/L
1,1-Dichloroethane	0.200	1	ug/L
2-Butanone	2	5	ug/L
cis-1,2-Dichloroethene	0.200	1	ug/L
Chloroform	0.200	1	ug/L
1,1,1-Trichloroethane	0.300	1	ug/L
Carbon Tetrachloride	0.300	1	ug/L
1,2-Dichloroethane	0.100	1	ug/L
Benzene	0.200	1	ug/L
Trichloroethene	0.300	1	ug/L
1,2-Dichloropropane	0.400	1	ug/L
Bromodichloromethane	0.200	0.400	ug/L
cis-1,3-Dichloropropene	0.100	0.200	ug/L
4-Methyl-2-pentanone	2	5	ug/L
Toluene	0.200	1	ug/L
trans-1,3-Dichloropropene	0.200	0.200	ug/L
1,1,2-Trichloroethane	0.300	1	ug/L
Tetrachloroethene	0.300	1	ug/L
2-Hexanone	0.600	5	ug/L
Dibromochloromethane	0.200	0.200	ug/L
1,2-Dibromoethane	0.100	1	ug/L
Chlorobenzene	0.200	1	ug/L
Ethylbenzene	0.300	1	ug/L
m,p-Xylenes	0.300	2	ug/L
o-Xylene	0.200	1	ug/L
Styrene	0.100	1	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260B

Laboratory: ENCO Jacksonville **SDG:** BR006-009

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JVGCMS1

Analyte	MDL	MRL	Units
Bromoform	0.200	1	ug/L
Isopropylbenzene	0.100	1	ug/L
1,1,2,2-Tetrachloroethane	0.200	0.200	ug/L
1,3-Dichlorobenzene	0.200	1	ug/L
1,4-Dichlorobenzene	0.100	1	ug/L
1,2-Dichlorobenzene	0.200	1	ug/L
1,2-Dibromo-3-chloropropane	0.300	1	ug/L
1,2,4-Trichlorobenzene	0.100	1	ug/L
Freon 113	0.580	1	ug/L
Xylenes (Total)	0.300	1	ug/L
Cyclohexane	0.450	1	ug/L
Diethyl ether	0.540	1	ug/L
Methyl acetate	0.510	1	ug/L
Methyl cyclohexane	0.550	1	ug/L

HOLDING TIME SUMMARY
EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX-47-937MW1S-112906	11/29/06 13:48	11/30/06 11:35	12/07/06 09:00	7.80	NA	12/07/06 18:53	8.00	14.00	
JAX-47-937MW5S-112906	11/29/06 16:00	11/30/06 11:35	12/07/06 09:00	7.71	NA	12/07/06 22:59	8.00	14.00	
JAX-47-937MW5S-112906	11/29/06 16:00	11/30/06 11:35	12/07/06 09:00	7.71	NA	12/08/06 12:08	9.00	14.00	
JAX-47-EB03	11/29/06 17:00	11/30/06 11:35	12/07/06 09:00	7.67	NA	12/07/06 20:25	8.00	14.00	
JAX-47-EB04	11/29/06 14:00	11/30/06 11:35	12/07/06 09:00	7.79	NA	12/07/06 20:56	8.00	14.00	
JAX-47-MW15D-112906	11/29/06 15:35	11/30/06 11:35	12/07/06 09:00	7.73	NA	12/07/06 21:27	8.00	14.00	
JAX-47-MW15S-112906	11/29/06 16:35	11/30/06 11:35	12/07/06 09:00	7.68	NA	12/07/06 21:57	8.00	14.00	
JAX47-937MW3S-112906	11/29/06 16:00	11/30/06 11:35	12/07/06 09:00	7.71	NA	12/07/06 22:28	8.00	14.00	
JAX47-937MW3S-112906	11/29/06 16:00	11/30/06 11:35	12/07/06 09:00	7.71	NA	12/08/06 11:37	9.00	14.00	
Trip Blank #3	11/30/06 00:00	11/30/06 11:35	12/07/06 09:00	7.38	NA	12/07/06 19:24	8.00	14.00	
Trip Blank #4	11/30/06 00:00	11/30/06 11:35	12/07/06 09:00	7.38	NA	12/07/06 19:54	8.00	14.00	

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00102	Instrument:	JVGCMS1
Calibration:	0612011		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6L0029	8260 Calibration standard #1 (0.0002mg/L)	BA00102-CAL1	7KY005.D	11/30/06 16:52
B6L0031	8260 Calibration standard #2(0.001mg/L)	BA00102-CAL2	7KY007.D	11/30/06 17:54
B6L0032	8260 Calibration standard #3(0.005mg/L)	BA00102-CAL3	7KY008.D	11/30/06 18:25
B6L0033	8260 Calibration standard #4(0.020mg/L)	BA00102-CAL4	7KY009.D	11/30/06 18:55
B6L0037	8260 Calibration standard #5(0.050mg/L)	BA00102-CAL5	7KY010.D	11/30/06 19:26
B6L0036	8260 Calibration standard #6(0.100mg/L)	BA00102-CAL6	7KY012.D	11/30/06 20:27
B6L0035	8260 Calibration standard #7(0.200mg/L)	BA00102-CAL7	7KY015.D	11/30/06 21:59

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dichlorodifluoromethane	0.4891056	8.263214	4.126667	0.1238832			15	
Chloromethane	0.9655093	3.728292	4.638333	0.1619998			SPCC (0.1)	
Vinyl chloride	0.8395935	4.076439	4.818333	0.0824676			CCC (20)	
Bromomethane	0.6725491	49.6437	5.585	9.772775E-02	0.9980846		0.99	
Chloroethane	0.6032704	12.85019	5.881667	0.1273458			15	
Trichlorofluoromethane	0.9226812	8.61043	6.201667	6.840952E-02			15	
Acrolein	0.2051294	10.47996	7.888333	5.220398E-02			15	
1,1-Dichloroethene	0.685872	5.063244	7.283333	0.0697844			CCC (20)	
Acetone	0.2787158	14.82686	8.388333	8.930864E-02			15	
Iodomethane	0.7809547	26.43857	7.578333	5.201365E-02	0.9996908		0.99	
Carbon disulfide	2.811647	6.788939	7.378333	5.460098E-02			15	
Acetonitrile	0.1380945	13.60038	9.143333	5.597861E-02			15	
3-Chloropropene	1.210318	9.623492	8.16	2.450681E-02			15	
Methylene Chloride	1.008004	22.77009	8.336667	0.0633192	0.9997634		0.99	
Acrylonitrile	0.4962335	11.9714	9.621428	3.543329E-02			15	
Methyl-tert-Butyl Ether	2.081972	6.324892	8.768334	8.624266E-02			15	
trans-1,2-Dichloroethene	0.7836962	3.333029	8.625	6.076272E-02			15	
1,1-Dichloroethane	1.563742	9.917041	9.575	5.562758E-02			SPCC (0.1)	
Vinyl acetate	1.661521	23.13122	9.87	1.926967E-02	0.9889033		0.99	*
Isopropyl Ether	3.292689	3.825919	9.35	1.232276E-02			15	
Chloroprene	0.598233	7.346196	9.548333	4.627723E-02			15	
2-Butanone	8.788243E-02	10.69049	11.02167	6.799587E-02			15	
cis-1,2-Dichloroethene	0.837048	2.083256	10.32	0.0147416			15	
2,2-Dichloropropane	0.8906018	9.985542	10.47833	3.896961E-02			15	
Propionitrile	0.1204256	10.82057	11.4	3.753579E-03			15	
Methacrylonitrile	0.6295718	9.847603	11.435	5.313458E-02			15	
Bromochloromethane	0.3448757	9.577937	10.58667	4.882721E-02	0.998923		0.99	
Chloroform	1.489974	7.566166	10.65	1.081857E-02			CCC (20)	
1,1,1-Trichloroethane	1.087956	6.039617	10.965	4.730071E-02			15	
1,1-Dichloropropene	1.055627	2.048352	11.115	4.777277E-02			15	
Isobutyl alcohol	7.110645E-02	7.065213	11.50333	4.396352E-02			15	
Carbon Tetrachloride	0.3996015	4.91674	10.885	5.259331E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dichloroethane	0.5416884	12.04494	11.64333	4.395917E-02			15	
Benzene	1.357218	3.24838	11.42833	4.055526E-02			15	
Trichloroethene	0.3086262	3.801424	12.09333	4.244813E-02			15	
1,2-Dichloropropane	0.3922777	5.501212	12.69	1.313138E-02			CCC (20)	
Methyl Methacrylate	0.2348742	10.17942	12.82833	3.438979E-02			15	
1,4-Dioxane	3.741943E-03	26.1882	12.935	4.115165E-02	0.999133		0.99	
Dibromomethane	0.2458341	7.895044	12.58167	2.722672E-02			15	
Bromodichloromethane	0.5324099	8.340159	12.73	9.976292E-03			15	
2-Chloroethyl Vinyl Ether	0.1103583	55.39909	13.29167	3.035253E-02	0.9972193		0.99	
cis-1,3-Dichloropropene	0.5674475	9.957627	13.41286	3.623176E-02			15	
4-Methyl-2-pentanone	4.531632E-02	7.456596	14.02167	2.686936E-02			15	
Toluene	0.7588912	5.322928	13.68833	3.304316E-02			CCC (20)	
trans-1,3-Dichloropropene	0.4674258	13.99263	14.08857	2.914047E-02			15	
Cyclohexane	1.410118	5.59365	10.63333	0.0495549			15	
Ethyl Methacrylate	0.4477537	6.700453	14.17333	3.024873E-02			15	
1,1,2-Trichloroethane	0.3006846	7.924853	14.27833	3.250169E-02			15	
Methyl acetate	0.9049549	9.119063	8.593334	5.886581E-02			15	
1,3-Dichloropropane	0.5747967	5.625288	14.58167	3.017796E-02			15	
Methyl cyclohexane	0.6252538	47.68198	12.11667	6.511288E-02	0.9998393		0.99	
Tetrachloroethene	0.3041882	23.54363	14.122	2.611843E-02	0.9997888		0.99	
2-Hexanone	0.2756401	11.12374	14.88167	2.317611E-02			15	
Dibromochloromethane	0.2968428	7.645503	14.49286	5.273439E-02			15	
1,2-Dibromoethane	0.2957643	6.295197	14.78833	0.0245476			15	
Chlorobenzene	0.75907	4.230163	15.3	1.718374E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.2597614	10.54839	15.34429	3.216631E-02			15	
Ethylbenzene	0.3859952	6.211594	15.28	9.388808E-03			CCC (20)	
m,p-Xylenes	0.4757066	4.887123	15.415	3.330498E-02			15	
o-Xylene	0.4633409	4.612091	15.83833	2.892547E-02			15	
Styrene	0.8131023	9.984198	15.88167	2.888939E-02			15	
Bromoform	0.1459766	30.02477	15.96167	2.723676E-02	0.999666		SPCC (0.1)	
Isopropylbenzene	1.038279	10.17184	16.11333	2.495369E-02			15	
1,1,2,2-Tetrachloroethane	0.4025072	10.48271	16.53857	2.007184E-02			SPCC (0.3)	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Bromobenzene	0.2778114	6.973197	16.54	1.557433E-02			15	
1,2,3-Trichloropropane	0.5182556	9.502706	16.70571	2.461927E-02			15	
trans-1,4-Dichloro-2-butene	0.13757	8.503743	16.70333	2.260211E-02			15	
n-Propyl Benzene	1.586086	5.733572	16.48833	3.367371E-02			15	
2-Chlorotoluene	2.398101	4.259706	16.68	9.120699E-03			15	
1,3,5-Trimethylbenzene	2.095418	6.02326	16.63667	3.700984E-02			15	
4-Chlorotoluene	2.163754	3.895487	16.82833	2.621553E-02			15	
tert-Butylbenzene	1.621045	6.721607	16.96167	2.396541E-02			15	
Pentachloroethane							15	
1,2,4-Trimethylbenzene	2.174296	8.832853	17.015	0.0366926			15	
sec-Butylbenzene	2.645461	7.87505	17.12833	1.023672E-02			15	
1,3-Dichlorobenzene	1.157446	5.428462	17.40333	2.577167E-02			15	
4-Isopropyltoluene	1.95761	9.4942	17.23333	3.383868E-02			15	
1,4-Dichlorobenzene	1.168477	6.187377	17.48333	2.829391E-02			15	
n-Butyl Benzene	2.186885	7.391293	17.64667	0.0328921			15	
1,2-Dichlorobenzene	1.069142	5.039583	17.91333	0.0300671			15	
1,2-Dibromo-3-chloropropane	0.1008636	21.37288	18.74	3.494366E-02	0.9987075		0.99	
1,2,4-Trichlorobenzene	0.6103911	8.004216	19.50333	2.593028E-02			15	
Hexachlorobutadiene	0.1605368	17.38199	19.405	4.641348E-02	0.999727		0.99	
Naphthalene	1.637043	9.859078	19.93	2.009993E-02			15	
1,2,3-Trichlorobenzene	0.5807154	4.448561	20.185	2.613821E-02			15	
Diethyl ether	0.7192179	9.094101	6.831667	0.1707826			15	
Freon 113	0.3789873	9.583965	7.358333	0.1021996			15	
Dibromofluoromethane	0.3546864	3.408894	10.89	1.492901E-02			15	
Toluene-d8	1.3112	2.192469	13.63	1.100379E-02			15	
4-Bromofluorobenzene	0.5657497	3.32656	16.40833	1.767008E-02			15	
1,2-Dichloroethane-d4	0.9923649	7.658875	11.56333	0.0440664			15	

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L07026	Laboratory ID:	6L07026-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	34.4	172 *	30 - 155
Chloromethane	20.0	28.2	141 *	40 - 125
Vinyl chloride	20.0	27.5	138	50 - 145
Bromomethane	20.0	23.5	118	30 - 145
Chloroethane	20.0	24.7	124	60 - 135
Trichlorofluoromethane	20.0	25.8	129	60 - 145
1,1-Dichloroethene	20.0	20.0	100	70 - 130
Acetone	50.0	45.9	92	40 - 140
Carbon disulfide	20.0	20.1	101	35 - 160
Methylene Chloride	20.0	20.7	103	55 - 140
Methyl-tert-Butyl Ether	20.0	21.0	105	65 - 125
trans-1,2-Dichloroethene	20.0	21.6	108	60 - 140
1,1-Dichloroethane	20.0	21.4	107	70 - 135
2-Butanone	50.0	50.3	101	30 - 150
cis-1,2-Dichloroethene	20.0	19.7	98	70 - 125
Chloroform	20.0	19.0	95	65 - 135
1,1,1-Trichloroethane	20.0	20.2	101	65 - 130
Carbon Tetrachloride	20.0	21.3	106	65 - 140
1,2-Dichloroethane	20.0	19.8	99	70 - 130
Benzene	20.0	22.9	114	80 - 120
Trichloroethene	20.0	21.4	107	70 - 125
1,2-Dichloropropane	20.0	23.8	119	75 - 125
Bromodichloromethane	20.0	19.8	99	75 - 102
cis-1,3-Dichloropropene	20.0	22.6	113	70 - 130
4-Methyl-2-pentanone	50.0	49.5	99	60 - 135
Toluene	20.0	24.8	124 *	75 - 120
trans-1,3-Dichloropropene	20.0	27.0	135	55 - 140
1,1,2-Trichloroethane	20.0	22.6	113	75 - 125
Tetrachloroethene	20.0	13.7	68	45 - 150
2-Hexanone	50.0	55.3	111	55 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07026
Laboratory ID: 6L07026-BS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	20.0	23.2	116	54 - 120
1,2-Dibromoethane	20.0	24.3	121 *	80 - 120
Chlorobenzene	20.0	25.3	127 *	80 - 120
Ethylbenzene	20.0	23.7	118	75 - 125
m,p-Xylenes	40.0	49.5	124	75 - 130
o-Xylene	20.0	24.2	121 *	80 - 120
Styrene	20.0	22.9	114	65 - 135
Bromoform	20.0	21.9	109	70 - 130
Isopropylbenzene	20.0	26.8	134 *	75 - 125
1,1,2,2-Tetrachloroethane	20.0	24.1	121	65 - 130
1,3-Dichlorobenzene	20.0	24.2	121	75 - 125
1,4-Dichlorobenzene	20.0	25.4	127 *	75 - 125
1,2-Dichlorobenzene	20.0	25.8	129 *	70 - 120
1,2-Dibromo-3-chloropropane	20.0	23.2	116	50 - 130
1,2,4-Trichlorobenzene	20.0	25.2	126	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07026
Laboratory ID: 6L07026-BS2
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	30.9	154	30 - 155
Chloromethane	20.0	27.5	137 *	40 - 125
Vinyl chloride	20.0	25.7	129	50 - 145
Bromomethane	20.0	20.3	101	30 - 145
Chloroethane	20.0	22.8	114	60 - 135
Trichlorofluoromethane	20.0	23.4	117	60 - 145
1,1-Dichloroethene	20.0	19.1	95	70 - 130
Acetone	50.0	47.2	94	40 - 140
Carbon disulfide	20.0	18.6	93	35 - 160
Methylene Chloride	20.0	18.9	94	55 - 140
Methyl-tert-Butyl Ether	20.0	19.1	96	65 - 125
trans-1,2-Dichloroethene	20.0	19.9	100	60 - 140
1,1-Dichloroethane	20.0	20.0	100	70 - 135
2-Butanone	50.0	48.2	96	30 - 150
cis-1,2-Dichloroethene	20.0	18.2	91	70 - 125
Chloroform	20.0	18.2	91	65 - 135
1,1,1-Trichloroethane	20.0	18.9	94	65 - 130
Carbon Tetrachloride	20.0	18.9	94	65 - 140
1,2-Dichloroethane	20.0	18.3	92	70 - 130
Benzene	20.0	20.4	102	80 - 120
Trichloroethene	20.0	18.7	94	70 - 125
1,2-Dichloropropane	20.0	20.5	102	75 - 125
Bromodichloromethane	20.0	19.0	95	75 - 102
cis-1,3-Dichloropropene	20.0	21.2	106	70 - 130
4-Methyl-2-pentanone	50.0	42.0	84	60 - 135
Toluene	20.0	21.8	109	75 - 120
trans-1,3-Dichloropropene	20.0	23.6	118	55 - 140
1,1,2-Trichloroethane	20.0	20.1	100	75 - 125
Tetrachloroethene	20.0	11.7	58	45 - 150
2-Hexanone	50.0	52.2	104	55 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L07026	Laboratory ID:	6L07026-BS2
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	20.0	20.5	103	54 - 120
1,2-Dibromoethane	20.0	20.0	100	80 - 120
Chlorobenzene	20.0	21.9	109	80 - 120
Ethylbenzene	20.0	21.0	105	75 - 125
m,p-Xylenes	40.0	42.6	107	75 - 130
o-Xylene	20.0	21.2	106	80 - 120
Styrene	20.0	20.3	102	65 - 135
Bromoform	20.0	19.1	95	70 - 130
Isopropylbenzene	20.0	23.5	118	75 - 125
1,1,2,2-Tetrachloroethane	20.0	22.2	111	65 - 130
1,3-Dichlorobenzene	20.0	22.1	110	75 - 125
1,4-Dichlorobenzene	20.0	23.1	116	75 - 125
1,2-Dichlorobenzene	20.0	23.3	117	70 - 120
1,2-Dibromo-3-chloropropane	20.0	21.0	105	50 - 130
1,2,4-Trichlorobenzene	20.0	21.1	106	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07026
Laboratory ID: 6L07026-MS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	ND	31.8	159 *	30 - 155
Chloromethane	20.0	ND	26.0	130 *	40 - 125
Vinyl chloride	20.0	ND	25.1	126	50 - 145
Bromomethane	20.0	-4.49	22.4	135	30 - 145
Chloroethane	20.0	ND	22.5	113	60 - 135
Trichlorofluoromethane	20.0	ND	23.3	116	60 - 145
1,1-Dichloroethene	20.0	ND	18.7	94	70 - 130
Acetone	50.0	ND	40.0	80	40 - 140
Carbon disulfide	20.0	ND	18.7	94	35 - 160
Methylene Chloride	20.0	-1.43	17.7	95	55 - 140
Methyl-tert-Butyl Ether	20.0	0.210	18.6	92	65 - 125
trans-1,2-Dichloroethene	20.0	0.530	19.5	95	60 - 140
1,1-Dichloroethane	20.0	ND	19.4	97	70 - 135
2-Butanone	50.0	ND	41.5	83	30 - 150
cis-1,2-Dichloroethene	20.0	17.0	35.9	94	70 - 125
Chloroform	20.0	ND	17.5	87	65 - 135
1,1,1-Trichloroethane	20.0	ND	18.3	92	65 - 130
Carbon Tetrachloride	20.0	ND	18.6	93	65 - 140
1,2-Dichloroethane	20.0	ND	17.4	87	70 - 130
Benzene	20.0	ND	19.6	98	80 - 120
Trichloroethene	20.0	0.980	18.9	89	70 - 125
1,2-Dichloropropane	20.0	ND	19.8	99	75 - 125
Bromodichloromethane	20.0	ND	18.0	90	75 - 120
cis-1,3-Dichloropropene	20.0	ND	19.5	97	70 - 130
4-Methyl-2-pentanone	50.0	ND	42.4	85	60 - 135
Toluene	20.0	ND	22.3	111	75 - 120
trans-1,3-Dichloropropene	20.0	ND	22.9	114	55 - 140
1,1,2-Trichloroethane	20.0	ND	20.6	103	75 - 125
Tetrachloroethene	20.0	1.51	13.8	61	45 - 150
2-Hexanone	50.0	ND	50.6	101	55 - 130
Dibromochloromethane	20.0	ND	20.4	102	60 - 136
1,2-Dibromoethane	20.0	ND	19.8	99	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L07026	Laboratory ID:	6L07026-MS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Chlorobenzene	20.0	ND	22.3	112	80 - 120
Ethylbenzene	20.0	ND	21.9	109	75 - 125
m,p-Xylenes	40.0	ND	44.8	112	75 - 130
o-Xylene	20.0	ND	22.7	114	80 - 120
Styrene	20.0	ND	20.5	102	65 - 135
Bromoform	20.0	ND	20.0	100	70 - 130
Isopropylbenzene	20.0	ND	25.0	125	75 - 125
1,1,2,2-Tetrachloroethane	20.0	ND	21.8	109	65 - 130
1,3-Dichlorobenzene	20.0	ND	22.8	114	75 - 125
1,4-Dichlorobenzene	20.0	ND	23.8	119	75 - 125
1,2-Dichlorobenzene	20.0	ND	23.0	115	70 - 120
1,2-Dibromo-3-chloropropane	20.0	ND	21.0	105	50 - 130
1,2,4-Trichlorobenzene	20.0	ND	23.4	117	65 - 135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	32.5	163	*	2	30	30 - 155
Chloromethane	20.0	26.1	130	*	0.5	30	40 - 125
Vinyl chloride	20.0	26.1	130		4	30	50 - 145
Bromomethane	20.0	25.0	147	*	11	30	30 - 145
Chloroethane	20.0	23.5	118		4	30	60 - 135
Trichlorofluoromethane	20.0	23.4	117		0.3	30	60 - 145
1,1-Dichloroethene	20.0	20.1	100		7	30	70 - 130
Acetone	50.0	39.8	80		0.7	30	40 - 140
Carbon disulfide	20.0	19.4	97		4	30	35 - 160
Methylene Chloride	20.0	19.3	104		9	30	55 - 140
Methyl-tert-Butyl Ether	20.0	19.8	98		6	30	65 - 125
trans-1,2-Dichloroethene	20.0	20.6	100		5	30	60 - 140
1,1-Dichloroethane	20.0	19.8	99		2	30	70 - 135
2-Butanone	50.0	44.2	88		6	30	30 - 150
cis-1,2-Dichloroethene	20.0	35.6	93		0.9	30	70 - 125
Chloroform	20.0	18.1	90		3	30	65 - 135

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07026
Laboratory ID: 6L07026-MSD1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	20.0	19.0	95	4	30	65 - 130
Carbon Tetrachloride	20.0	20.3	102	9	30	65 - 140
1,2-Dichloroethane	20.0	18.5	93	6	30	70 - 130
Benzene	20.0	21.7	108	10	30	80 - 120
Trichloroethene	20.0	20.7	99	9	30	70 - 125
1,2-Dichloropropane	20.0	21.4	107	8	30	75 - 125
Bromodichloromethane	20.0	18.9	94	5	30	75 - 120
cis-1,3-Dichloropropene	20.0	21.2	106	8	30	70 - 130
4-Methyl-2-pentanone	50.0	49.2	98	15	30	60 - 135
Toluene	20.0	23.2	116	4	30	75 - 120
trans-1,3-Dichloropropene	20.0	25.2	126	10	30	55 - 140
1,1,2-Trichloroethane	20.0	22.4	112	8	30	75 - 125
Tetrachloroethene	20.0	14.4	64	5	30	45 - 150
2-Hexanone	50.0	53.0	106	5	30	55 - 130
Dibromochloromethane	20.0	21.6	108	6	27	60 - 136
1,2-Dibromoethane	20.0	22.6	113	13	30	80 - 120
Chlorobenzene	20.0	24.1	120	7	30	80 - 120
Ethylbenzene	20.0	23.6	118	8	30	75 - 125
m,p-Xylenes	40.0	47.4	119	6	30	75 - 130
o-Xylene	20.0	22.9	114	0.7	30	80 - 120
Styrene	20.0	22.8	114	10	30	65 - 135
Bromoform	20.0	20.9	104	4	30	70 - 130
Isopropylbenzene	20.0	25.7	129 *	3	30	75 - 125
1,1,2,2-Tetrachloroethane	20.0	23.6	118	8	30	65 - 130
1,3-Dichlorobenzene	20.0	24.5	123	7	30	75 - 125
1,4-Dichlorobenzene	20.0	25.8	129 *	8	30	75 - 125
1,2-Dichlorobenzene	20.0	24.4	122 *	6	30	70 - 120
1,2-Dibromo-3-chloropropane	20.0	21.9	109	4	30	50 - 130
1,2,4-Trichlorobenzene	20.0	24.8	124	6	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07026 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L07026-BLK1	7LC004.D	12/07/06 09:00	
Blank	6L07026-BLK2	7LD004.D	12/08/06 09:00	
LCS	6L07026-BS1	7LC005.D	12/07/06 09:00	
LCS	6L07026-BS2	7LD008.D	12/07/06 09:00	
JAX-47-937MW1S-112906	6L07026-MS1	7LC006.D	12/07/06 09:00	
JAX-47-937MW1S-112906	6L07026-MSD1	7LC007.D	12/07/06 09:00	
JAX-47-937MW1S-112906	B610310-01	7LC009.D	12/07/06 09:00	Use this sample as your MS/MSD
JAX-47-937MW5S-112906	B610310-02	7LC017.D	12/07/06 09:00	
JAX-47-937MW5S-112906	B610310-02RE1	7LD006.D	12/07/06 09:00	Added 12/21/2006 by JDB
JAX-47-EB03	B610310-03	7LC012.D	12/07/06 09:00	
JAX-47-EB04	B610310-04	7LC013.D	12/07/06 09:00	
JAX-47-MW15D-112906	B610310-05	7LC014.D	12/07/06 09:00	
JAX-47-MW15S-112906	B610310-06	7LC015.D	12/07/06 09:00	
JAX47-937MW3S-112906	B610310-07	7LC016.D	12/07/06 09:00	
JAX47-937MW3S-112906	B610310-07RE1	7LD005.D	12/07/06 09:00	Added 12/21/2006 by JDB
Trip Blank #3	B610310-08	7LC010.D	12/07/06 09:00	
Trip Blank #4	B610310-09	7LC011.D	12/07/06 09:00	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7LC001.D	Injection Date:	12/07/06
Instrument ID:	JVGCMS1	Injection Time:	14:42
Sequence:	BA00113	Lab Sample ID:	BA00113-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.6	PASS
75	30 - 60% of 95	48.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.76	PASS
173	Less than 2% of 174	0.0962	PASS
174	50 - 200% of 95	57	PASS
175	5 - 9% of 174	5.11	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.78	PASS

CONTINUING CALIBRATION CHECK
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LC002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00113	Injection Date:	12/07/06
Lab Sample ID:	BA00113-CCV1	Injection Time:	15:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	45.5	0.4891056	0.444828		-9.1	
Chloromethane	A	50.0	51.6	0.9655093	0.996019	0.1	3.2	
Vinyl chloride	A	50.0	50.7	0.8395935	0.851347		1.4	15
Bromomethane	L	50.0	70.2	0.6725491	0.653973		40.3	15 *
Chloroethane	A	50.0	51.7	0.6032704	0.624305		3.5	
Trichlorofluoromethane	A	50.0	50.3	0.9226812	0.927406		0.5	
1,1-Dichloroethene	A	50.0	57.4	0.685872	0.786888		14.7	15
Acetone	A	250	244	0.2787158	0.271741		-2.5	
Carbon disulfide	A	250	266	2.811647	2.9907		6.4	
Methylene Chloride	L	50.0	61.1	1.008004	1.08029		22.2	
Methyl-tert-Butyl Ether	A	50.0	55.6	2.081972	2.31345		11.1	
trans-1,2-Dichloroethene	A	50.0	58.8	0.7836962	0.921974		17.6	
1,1-Dichloroethane	A	50.0	56.2	1.563742	1.75713	0.1	12.4	15
2-Butanone	A	250	285	8.788243E-02	0.100125		13.9	
cis-1,2-Dichloroethene	A	50.0	59.8	0.837048	1.00166		19.7	
Chloroform	A	50.0	55.0	1.489974	1.63862		10.0	15
1,1,1-Trichloroethane	A	50.0	54.8	1.087956	1.19329		9.7	15
Carbon Tetrachloride	A	50.0	50.3	0.3996015	0.401906		0.6	15
1,2-Dichloroethane	A	50.0	49.6	0.5416884	0.537756		-0.7	
Benzene	A	50.0	56.5	1.357218	1.53279		12.9	15
Trichloroethene	A	50.0	52.5	0.3086262	0.324045		5.0	15
1,2-Dichloropropane	A	50.0	55.0	0.3922777	0.43164		10.0	
Bromodichloromethane	A	50.0	53.6	0.5324099	0.554609		4.2	15
cis-1,3-Dichloropropene	A	50.0	60.0	0.5674475	0.680906		20.0	15 *
4-Methyl-2-pentanone	A	250	278	4.531632E-02	0.0504101		11.2	
Toluene	A	50.0	49.1	0.7588912	0.744825		-1.9	15
trans-1,3-Dichloropropene	A	50.0	50.4	0.4674258	0.470865		0.7	15
1,1,2-Trichloroethane	A	50.0	46.6	0.3006846	0.280147		-6.8	15
Tetrachloroethene	L	50.0	26.8	0.3041882	0.181784		-46.5	15 *

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LC002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00113	Injection Date:	12/07/06
Lab Sample ID:	BA00113-CCV1	Injection Time:	15:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone	A	250	251	0.2756401	0.276729		0.4	
Dibromochloromethane	A	50.0	48.7	0.2968428	0.289099		-2.6	15
1,2-Dibromoethane	A	50.0	48.0	0.2957643	0.284215		-3.9	15
Chlorobenzene	A	50.0	49.7	0.75907	0.755051	0.3	-0.5	15
Ethylbenzene	A	50.0	51.2	0.3859952	0.395231		2.4	15
m,p-Xylenes	A	100	102	0.4757066	0.484538		1.9	15
o-Xylene	A	50.0	48.6	0.4633409	0.450224		-2.8	15
Styrene	A	50.0	49.8	0.8131023	0.809497		-0.4	15
Bromoform	L	50.0	44.7	0.1459766	0.150439	0.1	-10.6	15
Isopropylbenzene	A	50.0	49.6	1.038279	1.02994		-0.8	15
1,1,2,2-Tetrachloroethane	A	50.0	50.8	0.4025072	0.409211	0.3	1.7	15
1,3-Dichlorobenzene	A	50.0	44.8	1.157446	1.03727		-10.4	15
1,4-Dichlorobenzene	A	50.0	45.4	1.168477	1.06094		-9.2	15
1,2-Dichlorobenzene	A	50.0	46.1	1.069142	0.986375		-7.7	15
1,2-Dibromo-3-chloropropane	L	50.0	44.0	0.1008636	0.0996632		-12.1	15
1,2,4-Trichlorobenzene	A	50.0	46.7	0.6103911	0.570019		-6.6	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00113	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L07026-BLK1)			Lab File ID: 7LC004.D		Analyzed: 12/07/06 16:19			
Dibromofluoromethane	50.0	102	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	99	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	96	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX-47-937MW1S-112906 (B610310-01)			Lab File ID: 7LC009.D		Analyzed: 12/07/06 18:53			
Dibromofluoromethane	50.0	92	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	93	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	88	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
Trip Blank #3 (B610310-08)			Lab File ID: 7LC010.D		Analyzed: 12/07/06 19:24			
Dibromofluoromethane	50.0	94	85 - 115	10.89	10.89	0.0000	+/-0.5	
Toluene-d8	50.0	95	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	90	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
Trip Blank #4 (B610310-09)			Lab File ID: 7LC011.D		Analyzed: 12/07/06 19:54			
Dibromofluoromethane	50.0	93	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	95	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	92	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX-47-EB03 (B610310-03)			Lab File ID: 7LC012.D		Analyzed: 12/07/06 20:25			
Dibromofluoromethane	50.0	98	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	92	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	90	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX-47-EB04 (B610310-04)			Lab File ID: 7LC013.D		Analyzed: 12/07/06 20:56			
Dibromofluoromethane	50.0	93	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	89	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX-47-MW15D-112906 (B610310-05)			Lab File ID: 7LC014.D		Analyzed: 12/07/06 21:27			
Dibromofluoromethane	50.0	96	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	95	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	89	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX-47-MW15S-112906 (B610310-06)			Lab File ID: 7LC015.D		Analyzed: 12/07/06 21:57			
Dibromofluoromethane	50.0	92	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	88	75 - 120	16.4	16.40833	-0.0083	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00113	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-937MW3S-112906 (B610310-07)			Lab File ID: 7LC016.D		Analyzed: 12/07/06 22:28			
Dibromofluoromethane	50.0	96	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	98	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	87	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX-47-937MW5S-112906 (B610310-02)			Lab File ID: 7LC017.D		Analyzed: 12/07/06 22:59			
Dibromofluoromethane	50.0	95	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	91	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
Blank (6L07026-BLK2)			Lab File ID: 7LD004.D		Analyzed: 12/08/06 11:06			
Dibromofluoromethane	50.0	92	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	95	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	88	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-937MW3S-112906 (B610310-07RE1)			Lab File ID: 7LD005.D		Analyzed: 12/08/06 11:37			
Dibromofluoromethane	50.0	95	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	98	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	91	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX-47-937MW5S-112906 (B610310-02RE1)			Lab File ID: 7LD006.D		Analyzed: 12/08/06 12:08			
Dibromofluoromethane	50.0	98	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	90	75 - 120	16.39	16.40833	-0.0183	+/-0.5	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00113	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00113-TUN1	7LC001.D	12/07/06 14:42
Calibration Check	BA00113-CCV1	7LC002.D	12/07/06 15:13
Blank	6L07026-BLK1	7LC004.D	12/07/06 16:19
LCS	6L07026-BS1	7LC005.D	12/07/06 16:50
JAX-47-937MW1S-112906	6L07026-MS1	7LC006.D	12/07/06 17:21
JAX-47-937MW1S-112906	6L07026-MSD1	7LC007.D	12/07/06 17:52
JAX-47-937MW1S-112906	B610310-01	7LC009.D	12/07/06 18:53
Trip Blank #3	B610310-08	7LC010.D	12/07/06 19:24
Trip Blank #4	B610310-09	7LC011.D	12/07/06 19:54
JAX-47-EB03	B610310-03	7LC012.D	12/07/06 20:25
JAX-47-EB04	B610310-04	7LC013.D	12/07/06 20:56
JAX-47-MW15D-112906	B610310-05	7LC014.D	12/07/06 21:27
JAX-47-MW15S-112906	B610310-06	7LC015.D	12/07/06 21:57
JAX47-937MW3S-112906	B610310-07	7LC016.D	12/07/06 22:28
JAX-47-937MW5S-112906	B610310-02	7LC017.D	12/07/06 22:59
MS Tune	BA00113-TUN2	7LD001.D	12/08/06 09:34
Calibration Check	BA00113-CCV2	7LD002.D	12/08/06 10:04
Blank	6L07026-BLK2	7LD004.D	12/08/06 11:06
JAX47-937MW3S-112906	B610310-07RE1	7LD005.D	12/08/06 11:37
JAX-47-937MW5S-112906	B610310-02RE1	7LD006.D	12/08/06 12:08
LCS	6L07026-BS2	7LD008.D	12/08/06 13:09

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7LD001.D	Injection Date:	12/08/06
Instrument ID:	JVGCMS1	Injection Time:	09:34
Sequence:	BA00113	Lab Sample ID:	BA00113-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21	PASS
75	30 - 60% of 95	46.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.45	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	66.4	PASS
175	5 - 9% of 174	6.67	PASS
176	95 - 101% of 174	95.1	PASS
177	5 - 9% of 176	5.96	PASS

CONTINUING CALIBRATION CHECK
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LD002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00113	Injection Date:	12/08/06
Lab Sample ID:	BA00113-CCV2	Injection Time:	10:04

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Dichlorodifluoromethane	A	50.0	40.5	0.4891056	0.395873		-19.1		
Chloromethane	A	50.0	45.9	0.9655093	0.886296	0.1	-8.2		
Vinyl chloride	A	50.0	46.6	0.8395935	0.782227		-6.8	15	
Bromomethane	L	50.0	58.2	0.6725491	0.549772		16.3	15	*
Chloroethane	A	50.0	48.3	0.6032704	0.583051		-3.4		
Trichlorofluoromethane	A	50.0	45.8	0.9226812	0.844294		-8.5		
1,1-Dichloroethene	A	50.0	41.6	0.685872	0.570119		-16.9	15	*
Acetone	A	250	207	0.2787158	0.230639		-17.2		
Carbon disulfide	A	250	222	2.811647	2.50017		-11.1		
Methylene Chloride	L	50.0	46.9	1.008004	0.836453		-6.1		
Methyl-tert-Butyl Ether	A	50.0	42.6	2.081972	1.77298		-14.8		
trans-1,2-Dichloroethene	A	50.0	45.6	0.7836962	0.71497		-8.8		
1,1-Dichloroethane	A	50.0	44.3	1.563742	1.38618	0.1	-11.4	15	
2-Butanone	A	250	227	8.788243E-02	0.0798597		-9.1		
cis-1,2-Dichloroethene	A	50.0	47.2	0.837048	0.789819		-5.6		
Chloroform	A	50.0	42.7	1.489974	1.2714		-14.7	15	
1,1,1-Trichloroethane	A	50.0	40.3	1.087956	0.876592		-19.4	15	*
Carbon Tetrachloride	A	50.0	41.8	0.3996015	0.334324		-16.3	15	*
1,2-Dichloroethane	A	50.0	41.3	0.5416884	0.446968		-17.5		
Benzene	A	50.0	47.9	1.357218	1.30027		-4.2	15	
Trichloroethene	A	50.0	44.3	0.3086262	0.273319		-11.4	15	
1,2-Dichloropropane	A	50.0	47.7	0.3922777	0.374515		-4.5		
Bromodichloromethane	A	50.0	45.5	0.5324099	0.470091		-11.7	15	
cis-1,3-Dichloropropene	A	50.0	48.9	0.5674475	0.555402		-2.1	15	
4-Methyl-2-pentanone	A	250	235	4.531632E-02	0.0426068		-6.0		
Toluene	A	50.0	53.1	0.7588912	0.805995		6.2	15	
trans-1,3-Dichloropropene	A	50.0	55.0	0.4674258	0.514468		10.1	15	
1,1,2-Trichloroethane	A	50.0	50.0	0.3006846	0.300997		0.1	15	
Tetrachloroethene	L	50.0	28.3	0.3041882	0.192241		-43.5	15	*

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LD002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00113	Injection Date:	12/08/06
Lab Sample ID:	BA00113-CCV2	Injection Time:	10:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone	A	250	283	0.2756401	0.312522		13.4	
Dibromochloromethane	A	50.0	51.2	0.2968428	0.303682		2.3	15
1,2-Dibromoethane	A	50.0	51.4	0.2957643	0.304075		2.8	15
Chlorobenzene	A	50.0	53.7	0.75907	0.814641	0.3	7.3	15
Ethylbenzene	A	50.0	53.5	0.3859952	0.412882		7.0	15
m,p-Xylenes	A	100	109	0.4757066	0.518221		8.9	15
o-Xylene	A	50.0	53.8	0.4633409	0.498205		7.5	15
Styrene	A	50.0	54.5	0.8131023	0.88556		8.9	15
Bromoform	L	50.0	49.1	0.1459766	0.165784	0.1	-1.8	15
Isopropylbenzene	A	50.0	52.8	1.038279	1.09742		5.7	15
1,1,2,2-Tetrachloroethane	A	50.0	56.7	0.4025072	0.456801	0.3	13.5	15
1,3-Dichlorobenzene	A	50.0	56.1	1.157446	1.29771		12.1	15
1,4-Dichlorobenzene	A	50.0	56.1	1.168477	1.31		12.1	15
1,2-Dichlorobenzene	A	50.0	57.3	1.069142	1.22616		14.7	15
1,2-Dibromo-3-chloropropane	L	50.0	55.3	0.1008636	0.12689		10.5	15
1,2,4-Trichlorobenzene	A	50.0	57.6	0.6103911	0.702527		15.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY
EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	O
JAX-47-937MW1S-112906	11/29/06 13:48	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/05/06 15:29	1.00	40.00	
JAX-47-937MW5S-112906	11/29/06 16:00	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/05/06 15:53	1.00	40.00	
JAX-47-EB03	11/29/06 17:00	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/05/06 16:17	1.00	40.00	
JAX-47-EB04	11/29/06 14:00	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/05/06 16:41	1.00	40.00	
JAX-47-MW15D-112906	11/29/06 15:35	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/05/06 17:05	1.00	40.00	
JAX-47-MW15S-112906	11/29/06 16:35	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/05/06 17:29	1.00	40.00	
JAX47-937MW3S-112906	11/29/06 16:00	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/05/06 17:52	1.00	40.00	
JAX47-937MW3S-112906	11/29/06 16:00	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/05/06 21:31	2.00	40.00	
JAX47-937MW3S-112906	11/29/06 16:00	11/30/06 11:35	12/04/06 07:15	5.00	7.00	12/06/06 11:27	2.00	40.00	

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L04001-BLK1	File ID:	5L5007.D
Prepared:	12/04/06 07:15	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/05/06 13:19	Instrument:	JSVGCMS1		
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	10	U
106-44-5	3 & 4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L04001-BLK1	File ID:	5L5007.D
Prepared:	12/04/06 07:15	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/05/06 13:19	Instrument:	JSVGCMS1		
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
92-52-4	1,1'-Biphenyl	10	U
1912-24-9	Atrazine	10	U
85-68-7	Butylbenzylphthalate	10	U
100-52-7	Benzaldehyde	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
105-60-2	Caprolactam	10	U
56-55-3	Benzo(a)anthracene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-009	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L04001-BLK1	File ID:	5L5007.D
Prepared:	12/04/06 07:15	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/05/06 13:19	Instrument:	JSVGCMS1		
Batch:	6L04001	Sequence:	BA00080	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
98-86-2	Acetophenone	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	42.9	43	15 - 134	
Nitrobenzene-d5	50.0	39.6	79	10 - 125	
2-Fluorobiphenyl	50.0	36.3	73	15 - 134	
2,4,6-Tribromophenol	100	86.7	87	10 - 189	
Terphenyl-d14	50.0	46.9	94	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	207670	4.8	203380	4.8	
Naphthalene-d8	697968	6	693884	6	
Acenaphthene-d10	471186	7.73	459042	7.73	
Phenanthrene-d10	826643	9.21	793131	9.22	
Chrysene-d12	971787	11.86	875583	11.86	
Perylene-d12	1009584	13.25	732497	13.25	

PREPARATION BATCH SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L04001 Batch Matrix: Water Preparation: EPA 3510C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L04001-BLK1	5L5007.D	12/04/06 07:15	
LCS	6L04001-BS1	5L5008.D	12/04/06 07:15	
JAX-47-937MW1S-112906	6L04001-MS1	5L5009.D	12/04/06 07:15	
JAX-47-937MW1S-112906	6L04001-MSD1	5L5010.D	12/04/06 07:15	
JAX-47-937MW1S-112906	B610310-01	5L5011.D	12/04/06 07:15	Use this sample as your MS/MSD
JAX-47-937MW5S-112906	B610310-02	5L5012.D	12/04/06 07:15	
JAX-47-EB03	B610310-03	5L5013.D	12/04/06 07:15	
JAX-47-EB04	B610310-04	5L5014.D	12/04/06 07:15	
JAX-47-MW15D-112906	B610310-05	5L5015.D	12/04/06 07:15	
JAX-47-MW15S-112906	B610310-06	5L5016.D	12/04/06 07:15	
JAX47-937MW3S-112906	B610310-07	5L5017.D	12/04/06 07:15	
JAX47-937MW3S-112906	B610310-07RE1	5L5026.D	12/04/06 07:15	Added as a d20
JAX47-937MW3S-112906	B610310-07RE2	5LA004.D	12/04/06 07:15	Added as a d100

METHOD DETECTION AND REPORTING LIMITS

EPA 8270C

Laboratory: ENCO Jacksonville **SDG:** BR006-009

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCMS1

Analyte	MDL	MRL	Units
Phenol	2	10.0	ug/L
Bis(2-chloroethyl)ether	3	10.0	ug/L
2-Chlorophenol	3	10.0	ug/L
2-Methylphenol	2	10.0	ug/L
Bis(2-chloroisopropyl)ether	4	10.0	ug/L
3 & 4-Methylphenol	2	10.0	ug/L
N-Nitroso-di-n-propylamine	3	10.0	ug/L
Hexachloroethane	3	10.0	ug/L
Nitrobenzene	4	10.0	ug/L
Isophorone	3	10.0	ug/L
2-Nitrophenol	3	10.0	ug/L
2,4-Dimethylphenol	2	10.0	ug/L
Bis(2-chloroethoxy)methane	3	10.0	ug/L
2,4-Dichlorophenol	2	10.0	ug/L
Naphthalene	3	10.0	ug/L
4-Chloroaniline	2	10.0	ug/L
Hexachlorobutadiene	3	10.0	ug/L
4-Chloro-3-methylphenol	1	10.0	ug/L
2-Methylnaphthalene	2	10.0	ug/L
Hexachlorocyclopentadiene	2	10.0	ug/L
2,4,6-Trichlorophenol	2	10.0	ug/L
2,4,5-Trichlorophenol	2	10.0	ug/L
2-Chloronaphthalene	2	10.0	ug/L
2-Nitroaniline	2	10.0	ug/L
Dimethylphthalate	1	10.0	ug/L
2,6-Dinitrotoluene	2	10.0	ug/L
Acenaphthylene	2	10.0	ug/L
3-Nitroaniline	0.930	10.0	ug/L
Acenaphthene	2	10.0	ug/L
2,4-Dinitrophenol	1	10.0	ug/L
4-Nitrophenol	1	10.0	ug/L
Dibenzofuran	2	10.0	ug/L
2,4-Dinitrotoluene	2	10.0	ug/L
Diethylphthalate	2	10.0	ug/L
4-Chlorophenyl-phenylether	2	10.0	ug/L
Fluorene	1	10.0	ug/L
4-Nitroaniline	2	10.0	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8270C

Laboratory: ENCO Jacksonville **SDG:** BR006-009

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCMS1

Analyte	MDL	MRL	Units
2-Methyl-4,6-dinitrophenol	0.970	10.0	ug/L
N-Nitrosodiphenylamine	2	10.0	ug/L
4-Bromophenyl-phenylether	2	10.0	ug/L
Hexachlorobenzene	2	10.0	ug/L
Pentachlorophenol	1	10.0	ug/L
Phenanthrene	1	10.0	ug/L
Anthracene	1	10.0	ug/L
Carbazole	1	10.0	ug/L
Di-n-butylphthalate	1	10.0	ug/L
Fluoranthene	2	10.0	ug/L
Pyrene	2	10.0	ug/L
Butylbenzylphthalate	1	10.0	ug/L
3,3´-Dichlorobenzidine	2	10.0	ug/L
Benzo(a)anthracene	1	10.0	ug/L
Bis(2-ethylhexyl)phthalate	2	10.0	ug/L
Chrysene	2	10.0	ug/L
Di-n-octylphthalate	2	10.0	ug/L
Benzo(b)fluoranthene	2	10.0	ug/L
Benzo(k)fluoranthene	1	10.0	ug/L
Benzo(a)pyrene	1	10.0	ug/L
Indeno(1,2,3-cd)pyrene	3	10.0	ug/L
Dibenzo(a,h)anthracene	3	10.0	ug/L
Benzo(g,h,i)perylene	3	10.0	ug/L
Acetophenone	2	10.0	ug/L
1,1'-Biphenyl	3	10.0	ug/L
Atrazine	1	10.0	ug/L
Benzaldehyde	3	10.0	ug/L
Caprolactam	2	10.0	ug/L

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00080	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (6L04001-BLK1)			Lab File ID: 5L5007.D			Analyzed: 12/05/06 13:19			
1,4-Dichlorobenzene-d4	207670	4.8	203380	4.8	102	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	697968	6	693884	6	101	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	471186	7.73	459042	7.73	103	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	826643	9.21	793131	9.22	104	50 - 200	-0.0100	+/-0.05	
Chrysene-d12	971787	11.86	875583	11.86	111	50 - 200	0.0000	+/-0.05	
Perylene-d12	1009584	13.25	732497	13.25	138	50 - 200	0.0000	+/-0.05	
JAX-47-937MW1S-112906 (B610310-01)			Lab File ID: 5L5011.D			Analyzed: 12/05/06 15:29			
1,4-Dichlorobenzene-d4	216427	4.8	203380	4.8	106	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	712152	6	693884	6	103	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	474202	7.73	459042	7.73	103	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	837884	9.22	793131	9.22	106	50 - 200	0.0000	+/-0.05	
Chrysene-d12	988898	11.86	875583	11.86	113	50 - 200	0.0000	+/-0.05	
Perylene-d12	1021653	13.25	732497	13.25	139	50 - 200	0.0000	+/-0.05	
JAX-47-937MW5S-112906 (B610310-02)			Lab File ID: 5L5012.D			Analyzed: 12/05/06 15:53			
1,4-Dichlorobenzene-d4	238244	4.8	203380	4.8	117	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	830825	6	693884	6	120	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	562618	7.73	459042	7.73	123	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	1038690	9.22	793131	9.22	131	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1232094	11.86	875583	11.86	141	50 - 200	0.0000	+/-0.05	
Perylene-d12	1265469	13.25	732497	13.25	173	50 - 200	0.0000	+/-0.05	
JAX-47-EB03 (B610310-03)			Lab File ID: 5L5013.D			Analyzed: 12/05/06 16:17			
1,4-Dichlorobenzene-d4	246913	4.8	203380	4.8	121	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	809557	6	693884	6	117	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	560809	7.73	459042	7.73	122	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	1010961	9.21	793131	9.22	127	50 - 200	-0.0100	+/-0.05	
Chrysene-d12	1181074	11.86	875583	11.86	135	50 - 200	0.0000	+/-0.05	
Perylene-d12	1216285	13.25	732497	13.25	166	50 - 200	0.0000	+/-0.05	
JAX-47-EB04 (B610310-04)			Lab File ID: 5L5014.D			Analyzed: 12/05/06 16:41			
1,4-Dichlorobenzene-d4	237400	4.8	203380	4.8	117	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	771216	5.99	693884	6	111	50 - 200	-0.0100	+/-0.05	
Acenaphthene-d10	517056	7.73	459042	7.73	113	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	932068	9.21	793131	9.22	118	50 - 200	-0.0100	+/-0.05	
Chrysene-d12	1072171	11.86	875583	11.86	122	50 - 200	0.0000	+/-0.05	
Perylene-d12	1124837	13.25	732497	13.25	154	50 - 200	0.0000	+/-0.05	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Sequence: BA00080
Instrument: JSVGCMS1
Matrix: Water
Calibration: 0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX-47-MW15D-112906 (B610310-05)			Lab File ID: 5L5015.D			Analyzed: 12/05/06 17:05			
1,4-Dichlorobenzene-d4	246211	4.8	203380	4.8	121	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	825356	5.99	693884	6	119	50 - 200	-0.0100	+/-0.05	
Acenaphthene-d10	550230	7.73	459042	7.73	120	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	983157	9.21	793131	9.22	124	50 - 200	-0.0100	+/-0.05	
Chrysene-d12	1145956	11.86	875583	11.86	131	50 - 200	0.0000	+/-0.05	
Perylene-d12	1165118	13.25	732497	13.25	159	50 - 200	0.0000	+/-0.05	
JAX-47-MW15S-112906 (B610310-06)			Lab File ID: 5L5016.D			Analyzed: 12/05/06 17:29			
1,4-Dichlorobenzene-d4	241996	4.8	203380	4.8	119	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	777337	5.99	693884	6	112	50 - 200	-0.0100	+/-0.05	
Acenaphthene-d10	519043	7.73	459042	7.73	113	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	930206	9.21	793131	9.22	117	50 - 200	-0.0100	+/-0.05	
Chrysene-d12	1100123	11.86	875583	11.86	126	50 - 200	0.0000	+/-0.05	
Perylene-d12	1167535	13.25	732497	13.25	159	50 - 200	0.0000	+/-0.05	
JAX47-937MW3S-112906 (B610310-07)			Lab File ID: 5L5017.D			Analyzed: 12/05/06 17:52			
1,4-Dichlorobenzene-d4	239616	4.8	203380	4.8	118	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	832390	6	693884	6	120	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	516433	7.73	459042	7.73	113	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	984524	9.22	793131	9.22	124	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1253250	11.88	875583	11.86	143	50 - 200	0.0200	+/-0.05	
Perylene-d12	1283357	13.26	732497	13.25	175	50 - 200	0.0100	+/-0.05	
JAX47-937MW3S-112906 (B610310-07RE1)			Lab File ID: 5L5026.D			Analyzed: 12/05/06 21:31			
1,4-Dichlorobenzene-d4	182475	4.8	203380	4.8	90	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	627519	6	693884	6	90	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	419422	7.73	459042	7.73	91	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	743511	9.22	793131	9.22	94	50 - 200	0.0000	+/-0.05	
Chrysene-d12	908609	11.86	875583	11.86	104	50 - 200	0.0000	+/-0.05	
Perylene-d12	946514	13.25	732497	13.25	129	50 - 200	0.0000	+/-0.05	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00100	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-937MW3S-112906 (B610310-07RE2)			Lab File ID: 5LA004.D			Analyzed: 12/06/06 11:27			
1,4-Dichlorobenzene-d4	188884	4.8	270219	4.8	70	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	582693	6	956174	6	61	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	439699	7.73	622308	7.73	71	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	766810	9.22	1118783	9.22	69	50 - 200	0.0000	+/-0.05	
Chrysene-d12	927897	11.86	1518383	11.87	61	50 - 200	-0.0100	+/-0.05	
Perylene-d12	918866	13.25	1492060	13.26	62	50 - 200	-0.0100	+/-0.05	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5K1020.D	Injection Date:	11/01/06
Instrument ID:	JSVGCMS1	Injection Time:	23:36
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.9	PASS
68	Less than 2% of 69	2.19	PASS
69	Less than 101% of 198	38	PASS
70	Less than 2% of 69	0.448	PASS
127	40 - 60% of 198	44.4	PASS
197	Less than 1% of 198	0.0916	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.94	PASS
275	10 - 30% of 198	24.9	PASS
365	1 - 100% of 198	2.46	PASS
443	17 - 23% of 442	20.2	PASS
441	0.01 - 100% of 443	73.7	PASS
442	40 - 100% of 198	59.1	PASS

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
N-Nitrosodimethylamine	0.5621943	8.193294	2.633333	0.1963783			15	
Pyridine	1.040686	10.54051	2.655	0.3152727			15	
Phenol	1.483651	8.038196	4.49	0.1988276			CCC (30)	
Bis(2-chloroethyl)ether	1.113659	7.325752	4.556667	0.1139776			15	
2-Chlorophenol	1.347204	6.467657	4.633333	0.1110654			15	
1,3-Dichlorobenzene	1.650943	6.138832	4.766667	0.1073817			15	
1,4-Dichlorobenzene	1.672139	6.160618	4.83	7.874393E-03			CCC (30)	
Benzyl alcohol	0.6996772	7.828096	4.928333	0.1530624			15	
1,2-Dichlorobenzene	1.580958	6.136074	4.97	1.841074E-02			15	
2-Methylphenol	0.9987735	8.028501	5.025	0.1077882			15	
Bis(2-chloroisopropyl)ether	1.273852	2.396582	5.04	1.126358E-02			15	
3 & 4-Methylphenol	1.227253	13.77085	5.165	0.1066847			15	
N-Nitroso-di-n-propylamine	0.7791327	5.934358	5.165	0.1066847			SPCC (0.05)	
Hexachloroethane	0.5979318	7.288353	5.28	1.458778E-02			15	
Nitrobenzene	0.3447905	5.058405	5.343333	9.768688E-02			15	
Isophorone	0.637638	4.705682	5.558333	0.1350731			15	
2-Nitrophenol	0.2120211	10.70834	5.64	1.271817E-02			CCC (30)	
2,4-Dimethylphenol	0.3165763	10.84362	5.665	9.541788E-02			15	
Bis(2-chloroethoxy)methane	0.3846464	6.85909	5.745	9.546621E-02			15	
Benzoic acid	0.1635287	33.05464	5.776667	0.5760865		0.9993511	0.99	
2,4-Dichlorophenol	0.3590291	12.98021	5.873333	8.704164E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.458506	7.846046	5.95	2.172452E-02			15	
Naphthalene	1.196628	9.127504	6.033333	8.235539E-02			15	
4-Chloroaniline	0.4155317	4.96787	6.123333	8.439695E-02			15	
Hexachlorobutadiene	0.227538	6.250511	6.14	2.432736E-02			CCC (30)	
4-Chloro-3-methylphenol	0.3049334	8.90665	6.541667	6.167171E-02			CCC (30)	
2-Methylnaphthalene	0.8038685	9.152093	6.701667	5.768975E-02			15	
1-Methylnaphthalene	0.7233615	8.772933	6.803333	7.451198E-02			15	
Hexachlorocyclopentadiene	0.1044687	43.19495	6.85	2.203062E-02		0.9975833	SPCC (0.05)	
2,4,6-Trichlorophenol	0.5046372	10.44058	6.98	1.920615E-02			CCC (30)	
2,4,5-Trichlorophenol	0.5118521	14.31777	7.02	9.988165E-03			15	
2-Chloronaphthalene	1.308326	10.31183	7.186667	7.386857E-02			15	

INITIAL CALIBRATION DATA (Continued)
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2-Nitroaniline	0.2980158	2.644876	7.333333	6.876746E-02			15	
Dimethylphthalate	1.472225	8.125445	7.446667	7.018927E-02			15	
2,6-Dinitrotoluene	0.3238295	9.451377	7.518333	0.1008388			15	
Acenaphthylene	1.877258	5.01001	7.603333	6.753869E-02			15	
3-Nitroaniline	0.2987519	3.935311	7.738333	9.695871E-02			15	
Acenaphthene	1.200929	10.12647	7.773333	6.531179E-02			CCC (30)	
2,4-Dinitrophenol	0.1466689	48.81555	7.8	8.191584E-02		0.9994468	SPCC (0.05)	
4-Nitrophenol	0.1546143	19.86585	7.873333	6.493114E-02	0.9991882		SPCC (0.05)	
Dibenzofuran	1.877582	9.990709	7.946667	6.414562E-02			15	
2,4-Dinitrotoluene	0.429289	10.11951	7.925	7.111193E-02			15	
Diethylphthalate	1.41314	8.128289	8.145	6.657746E-02			15	
4-Chlorophenyl-phenylether	0.8539739	10.22404	8.27	1.557433E-02			15	
Fluorene	1.558152	10.29066	8.286667	6.113085E-02			15	
4-Nitroaniline	0.1842331	16.11958	8.341667	8.993467E-02	0.9944372		0.99	
2-Methyl-4,6-dinitrophenol	0.2569687	26.06665	8.336667	9.857811E-02		0.9998563	0.99	
N-Nitrosodiphenylamine	0.636881	30.42456	8.39	1.081293E-02			CCC (30)	
DPH (as Azobenzene)	0.3409989	9.363236	8.433333	0.0576731			15	
4-Bromophenyl-phenylether	0.2969102	10.57137	8.761667	4.475687E-02			15	
Hexachlorobenzene	0.3939929	10.47371	8.845	6.172816E-02			15	
Pentachlorophenol	0.1500199	39.93116	9.04	2.281919E-02		0.9994615	CCC (30)	
Phenanthrene	1.32166	10.76925	9.255	5.926022E-02			15	
Anthracene	1.346312	11.35618	9.305	0.0608593			15	
Carbazole	1.049298	4.256642	9.506667	5.204911E-02			15	
Di-n-butylphthalate	1.402729	10.39847	9.766667	5.554465E-02			15	
Fluoranthene	1.58865	11.23068	10.445	5.421693E-02			CCC (30)	
Benzidine	0.1279652	23.02702	10.56167	4.046433E-02		0.97494	0.99	*
Pyrene	1.656371	10.80103	10.67667	0.0491134			15	
1,1'-Biphenyl	1.497159	7.675694	7.211667	5.560347E-02			15	
Atrazine	0.2693472	7.97944	8.966667	5.956773E-02			15	
Butylbenzylphthalate	0.645954	10.63971	11.26667	4.492072E-02			15	
Benzaldehyde	1.106363	5.270253	4.49	2.212579E-02			15	
3,3'-Dichlorobenzidine	0.4069062	5.084068	11.82333	3.981086E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Caprolactam	0.1078949	13.19479	6.453333	0.1882893			15	
Benzo(a)anthracene	1.463374	4.077702	11.865	4.565219E-02			15	
Bis(2-cthylhexyl)phthalate	0.7700769	8.571151	11.81667	3.787649E-02			15	
Chrysene	1.3725	6.520869	11.90333	6.741974E-02			15	
Di-n-octylphthalate	1.258534	7.224001	12.42167	3.993896E-02			CCC (30)	
Benzo(b)fluoranthene	1.479716	13.92776	12.88167	0.0619947			15	
Benzo(k)fluoranthene	1.424611	9.671884	12.90833	5.682324E-02			15	
Benzo(a)pyrene	1.299118	9.99828	13.21	6.667204E-02			CCC (30)	
Indeno(1,2,3-cd)pyrene	1.47866	14.09171	14.525	0.1287234			15	
Dibenzo(a,h)anthracene	1.291882	15.31227	14.525	0.1287234	0.9967171		0.995	
Benzo(g,h,i)perylene	1.144079	12.66476	14.9	0.1199012			15	
Acetophenone	1.606089	7.993928	5.23	1.686226E-02			15	
Aniline							15	
2-Fluorophenol	1.038583	10.96286	3.703333	0.1396023			15	
Phenol-d5	1.365007	6.010489	4.476667	0.1152809			15	
Nitrobenzene-d5	0.3296576	4.421747	5.323333	9.806076E-02			15	
2-Fluorobiphenyl	1.527358	8.59381	7.055	7.664578E-02			15	
2,4,6-Tribromophenol	0.2690814	15.17659	8.531666	4.779001E-02			15	
Terphenyl-d14	1.208643	12.45703	10.80167	4.106554E-02			15	

INITIAL CALIBRATION STANDARDS

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00069	Instrument:	JSVGCMS1
Calibration:	0612007		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6J0127	8270 - 8270 Tune Working Std	BA00069-TUN2	5K1020.D	11/01/06 23:36
B6F0036	8270 - 10ug/mL Basic Extractables	BA00069-CAL7	5K1021.D	11/01/06 23:54
B6F0037	8270 - 20ug/mL Basic Extractables	BA00069-CAL8	5K1022.D	11/02/06 00:19
B6F0038	8270 - 40ug/mL Basic Extractables	BA00069-CAL9	5K1023.D	11/02/06 00:43
B6F0039	8270 - 60ug/mL Basic Extractables	BA00069-CALA	5K1024.D	11/02/06 01:08
B6F0040	8270 - 80ug/mL Basic Extractables	BA00069-CALB	5K1025.D	11/02/06 01:33
B6F0041	8270 - 100ug/mL Basic Extractables	BA00069-CALC	5K1026.D	11/02/06 01:58
B6J0127	8270 - 8270 Tune Working Std	BA00069-TUN3	5KC002.D	11/08/06 09:45
B6K0041	8270 - BNA 10ug/mL std	BA00069-CALD	5KC004.D	11/08/06 11:20
B6K0040	8270 - BNA 20ug/mL std	BA00069-CALE	5KC005.D	11/08/06 11:44
B6K0039	8270 - BNA 40ug/mL std	BA00069-CALF	5KC006.D	11/08/06 12:09
B6K0038	8270 - BNA 60ug/mL std	BA00069-CALG	5KC007.D	11/08/06 12:34
B6K0037	8270 - BNA 80ug/mL std	BA00069-CALH	5KC008.D	11/08/06 12:58
B6K0036	8270 - BNA 100ug/mL std	BA00069-CALI	5KC009.D	11/08/06 13:23
B6K0103	8270 - 8270 Tune Working Std	BA00069-TUN1	5KX014.D	11/29/06 16:09
B6K0109	8270 Curve - 10ppm curve std	BA00069-CAL1	5KX015.D	11/29/06 16:27
B6K0108	8270 Curve - 20ppm curve std	BA00069-CAL2	5KX016.D	11/29/06 16:51
B6K0107	8270 Curve - 40ppm curve std	BA00069-CAL3	5KX017.D	11/29/06 17:15
B6K0106	8270 Curve - 60ppm curve std	BA00069-CAL4	5KX018.D	11/29/06 17:39
B6K0105	8270 Curve - 80ppm curve std	BA00069-CAL5	5KX019.D	11/29/06 18:04
B6K0104	8270 Curve - 100ppm curve std	BA00069-CAL6	5KX020.D	11/29/06 18:28

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5KC002.D	Injection Date:	11/08/06
Instrument ID:	JSVGCMS1	Injection Time:	09:45
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.1	PASS
68	Less than 2% of 69	0.153	PASS
69	Less than 101% of 198	36.3	PASS
70	Less than 2% of 69	0.522	PASS
127	40 - 60% of 198	43.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.04	PASS
275	10 - 30% of 198	24.6	PASS
365	1 - 100% of 198	2.34	PASS
443	17 - 23% of 442	21.3	PASS
441	0.01 - 100% of 443	70.4	PASS
442	40 - 100% of 198	55.1	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00080	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00080-TUN1	5L5001.D	12/05/06 10:15
Calibration Check	BA00080-CCV1	5L5005.D	12/05/06 11:34
Blank	6L04001-BLK1	5L5007.D	12/05/06 13:19
LCS	6L04001-BS1	5L5008.D	12/05/06 13:43
JAX-47-937MW1S-112906	6L04001-MS1	5L5009.D	12/05/06 14:07
JAX-47-937MW1S-112906	6L04001-MSD1	5L5010.D	12/05/06 14:31
JAX-47-937MW1S-112906	B610310-01	5L5011.D	12/05/06 15:29
JAX-47-937MW5S-112906	B610310-02	5L5012.D	12/05/06 15:53
JAX-47-EB03	B610310-03	5L5013.D	12/05/06 16:17
JAX-47-EB04	B610310-04	5L5014.D	12/05/06 16:41
JAX-47-MW15D-112906	B610310-05	5L5015.D	12/05/06 17:05
JAX-47-MW15S-112906	B610310-06	5L5016.D	12/05/06 17:29
JAX47-937MW3S-112906	B610310-07	5L5017.D	12/05/06 17:52
JAX47-937MW3S-112906	B610310-07RE1	5L5026.D	12/05/06 21:31

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5L5001.D	Injection Date:	12/05/06
Instrument ID:	JSVGCMS1	Injection Time:	10:15
Sequence:	BA00080	Lab Sample ID:	BA00080-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	32.3	PASS
68	Less than 2% of 69	1.59	PASS
69	Less than 101% of 198	34.6	PASS
70	Less than 2% of 69	0.618	PASS
127	40 - 60% of 198	42.5	PASS
197	Less than 1% of 198	0.675	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.12	PASS
275	10 - 30% of 198	24.4	PASS
365	1 - 100% of 198	2.42	PASS
443	17 - 23% of 442	22.2	PASS
441	0.01 - 100% of 443	66.9	PASS
442	40 - 100% of 198	52.7	PASS

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5L5005.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00080	Injection Date:	12/05/06
Lab Sample ID:	BA00080-CCV1	Injection Time:	11:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bis(2-chloroethyl)ether	A	40.0	36.9	1.113659	1.02843		-7.7	15
2-Chlorophenol	A	40.0	39.0	1.347204	1.31466		-2.4	15
2-Methylphenol	A	40.0	36.7	0.9987735	0.917021		-8.2	15
Bis(2-chloroisopropyl)ether	A	40.0	39.0	1.273852	1.24373		-2.4	15
3 & 4-Methylphenol	A	40.0	38.7	1.227253	1.18823		-3.2	15
N-Nitroso-di-n-propylamine	A	40.0	38.8	0.7791327	0.754695	0.05	-3.1	15
Hexachloroethane	A	40.0	38.2	0.5979318	0.570646		-4.6	15
Nitrobenzene	A	40.0	38.7	0.3447905	0.333346		-3.3	15
Isophorone	A	40.0	37.8	0.637638	0.602571		-5.5	15
2-Nitrophenol	A	40.0	38.8	0.2120211	0.205862		-2.9	15
2,4-Dimethylphenol	A	40.0	37.7	0.3165763	0.298179		-5.8	15
Bis(2-chloroethoxy)methane	A	40.0	37.6	0.3846464	0.361499		-6.0	15
2,4-Dichlorophenol	A	40.0	39.5	0.3590291	0.35466		-1.2	15
Naphthalene	A	40.0	38.4	1.196628	1.14932		-4.0	15
4-Chloroaniline	A	40.0	57.7	0.4155317	0.258172		J -37.9	
Hexachlorobutadiene	A	40.0	39.1	0.227538	0.222657		-2.1	
4-Chloro-3-methylphenol	A	40.0	39.3	0.3049334	0.29984		-1.7	15
2-Methylnaphthalene	A	40.0	38.7	0.8038685	0.777235		-3.3	15
2,4,6-Trichlorophenol	A	40.0	39.1	0.5046372	0.493795		-2.1	15
2,4,5-Trichlorophenol	A	40.0	37.3	0.5118521	0.477808		-6.7	15
2-Chloronaphthalene	A	40.0	39.3	1.308326	1.28617		-1.7	15
2-Nitroaniline	A	40.0	41.6	0.2980158	0.263084		-11.7	
Dimethylphthalate	A	40.0	38.8	1.472225	1.42827		-3.0	15
2,6-Dinitrotoluene	A	40.0	38.8	0.3238295	0.313711		-3.1	
Acenaphthylene	A	40.0	39.9	1.877258	1.873		-0.2	15
3-Nitroaniline	A	40.0	54.9	0.2987519	0.0986964		-67.0	
Acenaphthene	A	40.0	39.4	1.200929	1.1844		-1.4	15
2,4-Dinitrophenol	Q	40.0	29.0	0.1466689	0.0927077	0.05	J -27.5	
2,4-Dinitrotoluene	A	40.0	39.2	0.429289	0.420289		-2.1	15

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5L5005.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00080	Injection Date:	12/05/06
Lab Sample ID:	BA00080-CCV1	Injection Time:	11:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diethylphthalate	A	40.0	39.2	1.41314	1.38632		-1.9	
4-Chlorophenyl-phenylether	A	40.0	39.8	0.8539739	0.850405		-0.4	15
Fluorene	A	40.0	39.5	1.558152	1.53914		-1.2	15
4-Nitroaniline	L	40.0	22.6	0.1842331	0.0807438		-43.4	
2-Methyl-4,6-dinitrophenol	Q	40.0	30.2	0.2569687	0.184409		-24.5	15 *
N-Nitrosodiphenylamine	A	40.0	35.4	0.636881	0.562924		-11.6	
Hexachlorobenzene	A	40.0	40.0	0.3939929	0.394086		0.02	15
Pentachlorophenol	Q	40.0	37.2	0.1500199	0.134843		-7.0	15
Phenanthrene	A	40.0	39.5	1.32166	1.30544		-1.2	15
Anthracene	A	40.0	39.1	1.346312	1.31529		-2.3	15
Carbazole	A	40.0	39.7	1.049298	0.315896		-69.9	
Di-n-butylphthalate	A	40.0	38.5	1.402729	1.3494		-3.8	
Fluoranthene	A	40.0	39.5	1.58865	1.56962		-1.2	15
Pyrene	A	40.0	39.3	1.656371	1.62903		-1.7	15
Butylbenzylphthalate	A	40.0	38.7	0.645954	0.6255		-3.2	
Benzo(a)anthracene	A	40.0	39.1	1.463374	1.43054		-2.2	15
Bis(2-ethylhexyl)phthalate	A	40.0	38.3	0.7700769	0.737637		-4.2	
Chrysene	A	40.0	39.1	1.3725	1.34017		-2.4	15
Di-n-octylphthalate	A	40.0	38.5	1.258534	1.21101		-3.8	
Benzo(b)fluoranthene	A	40.0	40.4	1.479716	1.49341		0.9	15
Benzo(k)fluoranthene	A	40.0	39.0	1.424611	1.38931		-2.5	15
Benzo(a)pyrene	A	40.0	38.4	1.299118	1.24706		-4.0	15
Indeno(1,2,3-cd)pyrene	A	40.0	39.1	1.47866	1.44689		-2.1	15
Dibenzo(a,h)anthracene	L	40.0	38.3	1.291882	1.27995		-4.3	15
Benzo(g,h,i)perylene	A	40.0	37.4	1.144079	1.06932		-6.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00100	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00100-TUN1	5LA001.D	12/06/06 09:49
Calibration Check	BA00100-CCV1	5LA003.D	12/06/06 10:30
JAX47-937MW3S-112906	B610310-07RE2	5LA004.D	12/06/06 11:27

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5LA001.D	Injection Date:	12/06/06
Instrument ID:	JSVGCMS1	Injection Time:	09:49
Sequence:	BA00100	Lab Sample ID:	BA00100-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	36.3	PASS
68	Less than 2% of 69	2.19	PASS
69	Less than 101% of 198	42.4	PASS
70	Less than 2% of 69	0.39	PASS
127	40 - 60% of 198	42.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.76	PASS
275	10 - 30% of 198	24.6	PASS
365	1 - 100% of 198	2.15	PASS
443	17 - 23% of 442	22.6	PASS
441	0.01 - 100% of 443	70.6	PASS
442	40 - 100% of 198	41.7	PASS

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LA003.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00100	Injection Date:	12/06/06
Lab Sample ID:	BA00100-CCV1	Injection Time:	10:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bis(2-chloroethyl)ether	A	40.0	34.3	1.113659	0.954459		-14.3	15
2-Chlorophenol	A	40.0	38.6	1.347204	1.29985		-3.5	15
2-Methylphenol	A	40.0	37.5	0.9987735	0.935945		-6.3	15
Bis(2-chloroisopropyl)ether	A	40.0	39.0	1.273852	1.2404		-2.6	15
3 & 4-Methylphenol	A	40.0	37.3	1.227253	1.14352		-6.8	15
N-Nitroso-di-n-propylamine	A	40.0	36.9	0.7791327	0.71962	0.05	-7.6	15
Hexachloroethane	A	40.0	39.5	0.5979318	0.590469		-1.2	15
Nitrobenzene	A	40.0	39.2	0.3447905	0.338208		-1.9	15
Isophorone	A	40.0	37.0	0.637638	0.589822		-7.5	15
2-Nitrophenol	A	40.0	36.4	0.2120211	0.19284		-9.0	15
2,4-Dimethylphenol	A	40.0	35.2	0.3165763	0.278243		-12.1	15
Bis(2-chloroethoxy)methane	A	40.0	36.3	0.3846464	0.349147		-9.2	15
2,4-Dichlorophenol	A	40.0	36.3	0.3590291	0.325766		-9.3	15
Naphthalene	A	40.0	35.4	1.196628	1.05825		-11.6	15
4-Chloroaniline	A	40.0	15.0	0.4155317	0.0671917		-83.8	
Hexachlorobutadiene	A	40.0	39.1	0.227538	0.222228		-2.3	
4-Chloro-3-methylphenol	A	40.0	36.9	0.3049334	0.281353		-7.7	15
2-Methylnaphthalene	A	40.0	38.0	0.8038685	0.763028		-5.1	15
2,4,6-Trichlorophenol	A	40.0	35.2	0.5046372	0.444111		-12.0	15
2,4,5-Trichlorophenol	A	40.0	35.0	0.5118521	0.447561		-12.6	15
2-Chloronaphthalene	A	40.0	36.9	1.308326	1.20611		-7.8	15
2-Nitroaniline	A	40.0	23.8	0.2980158	0.150311		↓49.6	
Dimethylphthalate	A	40.0	35.2	1.472225	1.29608		-12.0	15
2,6-Dinitrotoluene	A	40.0	36.3	0.3238295	0.293519		-9.4	
Acenaphthylene	A	40.0	37.0	1.877258	1.73522		-7.6	15
3-Nitroaniline	A	40.0	15.7	0.2987519	0.0281758		-90.6	
Acenaphthene	A	40.0	33.8	1.200929	1.01336		-15.6	15 *
2,4-Dinitrophenol	Q	40.0	20.8	0.1466689	0.0534382	0.05	↓ -48.0	
2,4-Dinitrotoluene	A	40.0	36.7	0.429289	0.394171		-8.2	15

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LA003.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00100	Injection Date:	12/06/06
Lab Sample ID:	BA00100-CCV1	Injection Time:	10:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Diethylphthalate	A	40.0	35.1	1.41314	1.23891		-12.3		
4-Chlorophenyl-phenylether	A	40.0	35.8	0.8539739	0.76462		-10.5	15	
Fluorene	A	40.0	34.0	1.558152	1.32574		-14.9	15	
4-Nitroaniline	L	40.0	0.00	0.1842331	0.0302905				
2-Methyl-4,6-dinitrophenol	Q	40.0	24.6	0.2569687	0.141176		-38.6	15	*
N-Nitrosodiphenylamine	A	40.0	39.3	0.636881	0.625706		-1.8		
Hexachlorobenzene	A	40.0	36.2	0.3939929	0.356227		-9.6	15	
Pentachlorophenol	Q	40.0	25.4	0.1500199	0.0782046		-36.5	15	*
Phenanthrene	A	40.0	32.5	1.32166	1.07428		-18.7	15	*
Anthracene	A	40.0	32.2	1.346312	1.08261		-19.6	15	*
Carbazole	A	40.0	26.0	1.049298	0.206658		-80.3		
Di-n-butylphthalate	A	40.0	33.6	1.402729	1.17638		-16.1		
Fluoranthene	A	40.0	32.9	1.58865	1.30658		-17.8	15	*
Pyrene	A	40.0	32.8	1.656371	1.35648		-18.1	15	*
Butylbenzylphthalate	A	40.0	34.5	0.645954	0.556635		-13.8		
Benzo(a)anthracene	A	40.0	31.3	1.463374	1.14596		-21.7	15	*
Bis(2-ethylhexyl)phthalate	A	40.0	31.2	0.7700769	0.600055		-22.1		
Chrysene	A	40.0	31.6	1.3725	1.08257		-21.1	15	*
Di-n-octylphthalate	A	40.0	32.0	1.258534	1.00778		-19.9		
Benzo(b)fluoranthene	A	40.0	31.1	1.479716	1.15119		-22.2	15	*
Benzo(k)fluoranthene	A	40.0	32.2	1.424611	1.1463		-19.5	15	*
Benzo(a)pyrene	A	40.0	32.6	1.299118	1.05778		-18.6	15	*
Indeno(1,2,3-cd)pyrene	A	40.0	29.6	1.47866	1.09308		-26.1	15	*
Dibenzo(a,h)anthracene	L	40.0	30.4	1.291882	0.968974		-24.0	15	*
Benzo(g,h,i)perylene	A	40.0	27.8	1.144079	0.796203		-30.4	15	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00069	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00069-TUN2	5K1020.D	11/01/06 23:36
Cal Standard	BA00069-CAL7	5K1021.D	11/01/06 23:54
Cal Standard	BA00069-CAL8	5K1022.D	11/02/06 00:19
Cal Standard	BA00069-CAL9	5K1023.D	11/02/06 00:43
Cal Standard	BA00069-CALA	5K1024.D	11/02/06 01:08
Cal Standard	BA00069-CALB	5K1025.D	11/02/06 01:33
Cal Standard	BA00069-CALC	5K1026.D	11/02/06 01:58
MS Tune	BA00069-TUN3	5KC002.D	11/08/06 09:45
MS Tune	BA00069-TUN1	5KX014.D	11/29/06 16:09
Cal Standard	BA00069-CAL1	5KX015.D	11/29/06 16:27
Cal Standard	BA00069-CAL2	5KX016.D	11/29/06 16:51
Cal Standard	BA00069-CAL3	5KX017.D	11/29/06 17:15
Cal Standard	BA00069-CAL4	5KX018.D	11/29/06 17:39
Cal Standard	BA00069-CAL5	5KX019.D	11/29/06 18:04
Cal Standard	BA00069-CAL6	5KX020.D	11/29/06 18:28

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5KX014.D	Injection Date:	11/29/06
Instrument ID:	JSVGCMS1	Injection Time:	16:09
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	34.4	PASS
68	Less than 2% of 69	1.72	PASS
69	Less than 101% of 198	38.3	PASS
70	Less than 2% of 69	0.81	PASS
127	40 - 60% of 198	43.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.67	PASS
275	10 - 30% of 198	24.2	PASS
365	1 - 100% of 198	2.45	PASS
443	17 - 23% of 442	20.1	PASS
441	0.01 - 100% of 443	77	PASS
442	40 - 100% of 198	44.7	PASS

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L04001
Laboratory ID: 6L04001-BS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	33.6	67	35 - 110
2-Chlorophenol	50.0	31.2	62	35 - 105
2-Methylphenol	50.0	28.1	56	40 - 110
Bis(2-chloroisopropyl)ether	50.0	36.4	73	25 - 130
3 & 4-Methylphenol	50.0	26.1	52	30 - 110
N-Nitroso-di-n-propylamine	50.0	38.2	76	35 - 130
Hexachloroethane	50.0	27.4	55	30 - 95
Nitrobenzene	50.0	37.0	74	45 - 110
Isophorone	50.0	38.7	77	50 - 110
2-Nitrophenol	50.0	34.9	70	40 - 115
2,4-Dimethylphenol	50.0	33.8	68	30 - 110
Bis(2-chloroethoxy)methane	50.0	36.9	74	45 - 105
2,4-Dichlorophenol	50.0	35.5	71	50 - 105
Naphthalene	50.0	33.2	66	40 - 100
4-Chloroaniline	50.0	67.9	136 *	15 - 110
Hexachlorobutadiene	50.0	29.1	58	25 - 105
4-Chloro-3-methylphenol	50.0	34.9	70	45 - 110
2-Methylnaphthalene	50.0	33.2	66	45 - 105
2,4,6-Trichlorophenol	50.0	37.2	74	50 - 115
2,4,5-Trichlorophenol	50.0	38.0	76	50 - 110
2-Chloronaphthalene	50.0	34.4	69	50 - 105
2-Nitroaniline	50.0	44.7	89	50 - 115
Dimethylphthalate	50.0	40.1	80	25 - 125
2,6-Dinitrotoluene	50.0	39.6	79	50 - 115
Acenaphthylene	50.0	39.0	78	50 - 105
3-Nitroaniline	50.0	142	284 *	20 - 125
Acenaphthene	50.0	36.3	73	45 - 110
2,4-Dinitrophenol	50.0	26.9	54	15 - 140
2,4-Dinitrotoluene	50.0	41.0	82	50 - 120
Diethylphthalate	50.0	41.1	82	40 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L04001	Laboratory ID:	6L04001-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
4-Chlorophenyl-phenylether	50.0	38.2	76	50 - 110
Fluorene	50.0	38.0	76	50 - 110
4-Nitroaniline	50.0	90.3	181 *	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	30.2	60	40 - 130
N-Nitrosodiphenylamine	50.0	63.0	126 *	50 - 110
Hexachlorobenzene	50.0	39.7	79	50 - 110
Pentachlorophenol	50.0	33.4	67	40 - 115
Phenanthrene	50.0	39.8	80	50 - 115
Anthracene	50.0	40.2	80	55 - 110
Carbazole	50.0	123	247 *	50 - 115
Di-n-butylphthalate	50.0	41.3	83	55 - 115
Fluoranthene	50.0	41.3	83	55 - 115
Pyrene	50.0	41.7	83	50 - 130
Butylbenzylphthalate	50.0	42.3	85	45 - 115
Benzo(a)anthracene	50.0	41.7	83	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	41.3	83	40 - 125
Chrysene	50.0	41.7	83	55 - 110
Di-n-octylphthalate	50.0	41.2	82	35 - 135
Benzo(b)fluoranthene	50.0	41.8	84	45 - 120
Benzo(k)fluoranthene	50.0	42.0	84	45 - 125
Benzo(a)pyrene	50.0	41.0	82	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	40.9	82	45 - 125
Dibenzo(a,h)anthracene	50.0	39.5	79	40 - 125
Benzo(g,h,i)perylene	50.0	39.5	79	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L04001
Laboratory ID: 6L04001-MS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	ND	33.1	66	35 - 110
2-Chlorophenol	50.0	ND	28.6	57	35 - 105
2-Methylphenol	50.0	ND	26.5	53	40 - 110
Bis(2-chloroisopropyl)ether	50.0	ND	34.2	68	25 - 130
3 & 4-Methylphenol	50.0	ND	24.2	48	30 - 110
N-Nitroso-di-n-propylamine	50.0	ND	35.4	71	35 - 130
Hexachloroethane	50.0	ND	26.7	53	30 - 95
Nitrobenzene	50.0	ND	33.5	67	45 - 110
Isophorone	50.0	ND	35.4	71	50 - 110
2-Nitrophenol	50.0	ND	32.7	65	40 - 115
2,4-Dimethylphenol	50.0	ND	31.4	63	30 - 110
Bis(2-chloroethoxy)methane	50.0	ND	34.3	69	45 - 105
2,4-Dichlorophenol	50.0	ND	32.8	66	50 - 105
Naphthalene	50.0	ND	30.9	62	40 - 100
4-Chloroaniline	50.0	ND	62.8	126 *	15 - 110
Hexachlorobutadiene	50.0	ND	28.4	57	25 - 105
4-Chloro-3-methylphenol	50.0	ND	34.7	69	45 - 110
2-Methylnaphthalene	50.0	ND	31.5	63	45 - 105
2,4,6-Trichlorophenol	50.0	ND	35.7	71	50 - 115
2,4,5-Trichlorophenol	50.0	ND	36.4	73	50 - 110
2-Chloronaphthalene	50.0	ND	33.2	66	50 - 105
2-Nitroaniline	50.0	ND	42.9	86	50 - 115
Dimethylphthalate	50.0	ND	38.7	77	25 - 125
2,6-Dinitrotoluene	50.0	ND	37.9	76	50 - 115
Acenaphthylene	50.0	ND	36.7	73	50 - 105
3-Nitroaniline	50.0	ND	108	215 *	20 - 125
Acenaphthene	50.0	ND	34.3	69	45 - 110
2,4-Dinitrophenol	50.0	ND	34.6	69	15 - 140
2,4-Dinitrotoluene	50.0	ND	40.0	80	50 - 120
Diethylphthalate	50.0	ND	39.9	80	40 - 120
4-Chlorophenyl-phenylether	50.0	ND	37.0	74	50 - 110
Fluorene	50.0	ND	36.5	73	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L04001	Laboratory ID:	6L04001-MS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
4-Nitroaniline	50.0	ND	89.3	179 *	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	ND	36.4	73	40 - 130
N-Nitrosodiphenylamine	50.0	ND	59.3	119 *	50 - 110
Hexachlorobenzene	50.0	ND	39.3	79	50 - 110
Pentachlorophenol	50.0	ND	40.2	80	40 - 115
Phenanthrene	50.0	ND	38.4	77	50 - 115
Anthracene	50.0	ND	38.9	78	55 - 110
Carbazole	50.0	ND	134	269 *	50 - 115
Di-n-butylphthalate	50.0	ND	40.4	81	55 - 115
Fluoranthene	50.0	ND	40.8	82	55 - 115
Pyrene	50.0	ND	41.3	83	50 - 130
Butylbenzylphthalate	50.0	ND	41.7	83	45 - 115
Benzo(a)anthracene	50.0	ND	41.3	83	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	ND	40.5	81	40 - 125
Chrysene	50.0	ND	41.3	83	55 - 110
Di-n-octylphthalate	50.0	ND	40.5	81	35 - 135
Benzo(b)fluoranthene	50.0	ND	40.7	81	45 - 120
Benzo(k)fluoranthene	50.0	ND	42.2	84	45 - 125
Benzo(a)pyrene	50.0	ND	40.8	82	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	ND	40.9	82	45 - 125
Dibenzo(a,h)anthracene	50.0	ND	39.8	80	40 - 125
Benzo(g,h,i)perylene	50.0	ND	39.7	79	40 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	36.7	73	10	35	35 - 110
2-Chlorophenol	50.0	31.3	63	9	33	35 - 105
2-Methylphenol	50.0	27.7	55	4	34	40 - 110
Bis(2-chloroisopropyl)ether	50.0	36.9	74	8	28	25 - 130
3 & 4-Methylphenol	50.0	25.5	51	5	32	30 - 110
N-Nitroso-di-n-propylamine	50.0	37.4	75	6	32	35 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L04001
Laboratory ID: 6L04001-MSD1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachloroethane	50.0	29.6	59	10	35	30 - 95
Nitrobenzene	50.0	36.2	72	8	27	45 - 110
Isophorone	50.0	37.8	76	7	27	50 - 110
2-Nitrophenol	50.0	35.4	71	8	26	40 - 115
2,4-Dimethylphenol	50.0	31.0	62	1	26	30 - 110
Bis(2-chloroethoxy)methane	50.0	36.0	72	5	27	45 - 105
2,4-Dichlorophenol	50.0	35.2	70	7	30	50 - 105
Naphthalene	50.0	33.0	66	6	35	40 - 100
4-Chloroaniline	50.0	58.4	117 *	7	30	15 - 110
Hexachlorobutadiene	50.0	29.9	60	5	31	25 - 105
4-Chloro-3-methylphenol	50.0	34.6	69	0.3	26	45 - 110
2-Methylnaphthalene	50.0	33.1	66	5	35	45 - 105
2,4,6-Trichlorophenol	50.0	35.8	72	0.1	25	50 - 115
2,4,5-Trichlorophenol	50.0	35.9	72	1	32	50 - 110
2-Chloronaphthalene	50.0	33.6	67	1	32	50 - 105
2-Nitroaniline	50.0	42.6	85	0.7	23	50 - 115
Dimethylphthalate	50.0	38.1	76	2	24	25 - 125
2,6-Dinitrotoluene	50.0	38.0	76	0.3	24	50 - 115
Acenaphthylene	50.0	37.3	75	2	26	50 - 105
3-Nitroaniline	50.0	99.9	200 *	7	35	20 - 125
Acenaphthene	50.0	34.8	70	1	25	45 - 110
2,4-Dinitrophenol	50.0	34.3	69	0.9	22	15 - 140
2,4-Dinitrotoluene	50.0	38.4	77	4	21	50 - 120
Diethylphthalate	50.0	38.4	77	4	22	40 - 120
4-Chlorophenyl-phenylether	50.0	37.2	74	0.6	26	50 - 110
Fluorene	50.0	36.3	73	0.5	24	50 - 110
4-Nitroaniline	50.0	81.6	163 *	9	35	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	35.1	70	4	32	40 - 130
N-Nitrosodiphenylamine	50.0	57.1	114 *	4	22	50 - 110
Hexachlorobenzene	50.0	38.4	77	2	23	50 - 110
Pentachlorophenol	50.0	38.1	76	5	24	40 - 115
Phenanthrene	50.0	37.7	75	2	22	50 - 115
Anthracene	50.0	37.3	75	4	30	55 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8270C

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L04001
Laboratory ID: 6L04001-MSD1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Carbazole	50.0	126	252 *	6	25	50 - 115
Di-n-butylphthalate	50.0	38.4	77	5	19	55 - 115
Fluoranthene	50.0	38.4	77	6	28	55 - 115
Pyrene	50.0	38.5	77	7	28	50 - 130
Butylbenzylphthalate	50.0	39.0	78	7	29	45 - 115
Benzo(a)anthracene	50.0	38.0	76	8	30	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	37.2	74	8	30	40 - 125
Chrysene	50.0	38.1	76	8	30	55 - 110
Di-n-octylphthalate	50.0	37.7	75	7	28	35 - 135
Benzo(b)fluoranthene	50.0	37.0	74	10	30	45 - 120
Benzo(k)fluoranthene	50.0	39.5	79	7	32	45 - 125
Benzo(a)pyrene	50.0	37.1	74	10	30	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	37.6	75	8	27	45 - 125
Dibenzo(a,h)anthracene	50.0	36.8	74	8	22	40 - 125
Benzo(g,h,i)perylene	50.0	36.0	72	10	25	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00080	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00080-CCV1)			Lab File ID: 5L5005.D		Analyzed: 12/05/06 11:34			
2-Fluorophenol	40.0	98	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	40.0	95	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	40.0	98	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	40.0	107	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	40.0	103	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
Blank (6L04001-BLK1)			Lab File ID: 5L5007.D		Analyzed: 12/05/06 13:19			
2-Fluorophenol	100	43	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	50.0	79	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	73	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	87	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	94	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
LCS (6L04001-BS1)			Lab File ID: 5L5008.D		Analyzed: 12/05/06 13:43			
2-Fluorophenol	100	44	15 - 134	3.7	3.703333	-0.0033	+/-0.1	
Nitrobenzene-d5	50.0	78	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	78	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	103	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	95	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
Matrix Spike (6L04001-MS1)			Lab File ID: 5L5009.D		Analyzed: 12/05/06 14:07			
2-Fluorophenol	100	41	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	50.0	75	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	76	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	107	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	95	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
Matrix Spike Dup (6L04001-MSD1)			Lab File ID: 5L5010.D		Analyzed: 12/05/06 14:31			
2-Fluorophenol	100	44	15 - 134	3.7	3.703333	-0.0033	+/-0.1	
Nitrobenzene-d5	50.0	77	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	75	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	102	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	87	10 - 206	10.79	10.80167	-0.0117	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00080	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX-47-937MW1S-112906 (B610310-01)			Lab File ID: 5L5011.D		Analyzed: 12/05/06 15:29			
2-Fluorophenol	100	33	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	19	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	62	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	57	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	96	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	91	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
JAX-47-937MW5S-112906 (B610310-02)			Lab File ID: 5L5012.D		Analyzed: 12/05/06 15:53			
2-Fluorophenol	100	42	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	23	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	64	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	62	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	106	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	85	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
JAX-47-EB03 (B610310-03)			Lab File ID: 5L5013.D		Analyzed: 12/05/06 16:17			
2-Fluorophenol	100	41	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	25	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	75	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	67	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	87	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	88	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
JAX-47-EB04 (B610310-04)			Lab File ID: 5L5014.D		Analyzed: 12/05/06 16:41			
2-Fluorophenol	100	31	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	18	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	57	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	56	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	81	10 - 189	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	88	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
JAX-47-MW15D-112906 (B610310-05)			Lab File ID: 5L5015.D		Analyzed: 12/05/06 17:05			
2-Fluorophenol	100	50	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	31	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	84	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	78	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	104	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	94	10 - 206	10.79	10.80167	-0.0117	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00080	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX-47-MW15S-112906 (B610310-06)			Lab File ID: 5L5016.D		Analyzed: 12/05/06 17:29			
2-Fluorophenol	100	43	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	26	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	82	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	75	15 - 134	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	97	10 - 189	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	90	10 - 206	10.79	10.80167	-0.0117	+/-0.1	
JAX47-937MW3S-112906 (B610310-07)			Lab File ID: 5L5017.D		Analyzed: 12/05/06 17:52			
2-Fluorophenol	100	33	15 - 134	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	22	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	67	10 - 125	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	50.0	46	15 - 134	7.08	7.055	0.0250	+/-0.1	
2,4,6-Tribromophenol	100	102	10 - 189	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	50.0	98	10 - 206	10.81	10.80167	0.0083	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00100	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00100-CCV1)			Lab File ID: 5LA003.D		Analyzed: 12/06/06 10:30			
2-Fluorophenol	40.0	98	20 - 110	3.7	3.703333	-0.0033	+/-0.1	
Nitrobenzene-d5	40.0	99	40 - 110	5.31	5.323333	-0.0133	+/-0.1	
2-Fluorobiphenyl	40.0	95	50 - 110	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	40.0	96	40 - 125	8.52	8.531666	-0.0117	+/-0.1	
Terphenyl-d14	40.0	92	50 - 135	10.79	10.80167	-0.0117	+/-0.1	
JAX47-937MW3S-112906 (B610310-07RE2)			Lab File ID: 5LA004.D		Analyzed: 12/06/06 11:27			
Terphenyl-d14	50.0	62	50 - 135	10.79	10.80167	-0.0117	+/-0.1	

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-009

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX-47-937MW1S-112906	B610310-01
JAX-47-937MW5S-112906	B610310-02
JAX-47-EB03	B610310-03
JAX-47-EB04	B610310-04
JAX-47-MW15D-112906	B610310-05
JAX-47-MW15S-112906	B610310-06
JAX47-937MW3S-112906	B610310-07
JAX47-937MW3S-112906	B610310-07RE1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins Dn: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.10 10:39:26 -05'00'

Name: Christina Tompkins

Date: 01/09/07

Title: Project Manager

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-01	File ID:	9L1A019-0
Sampled:	11/29/06 13:48	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 22:18
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.755	7.757286	0.00229		0.004	
gamma-BHC	* 1	8.416	8.36	0.056		0.002	ND
delta-BHC	* 1	8.876	8.861	0.015		0.020	80
Heptachlor	* 1	9.193	9.196571	0.00357		0.013	408
Chlordane-alpha	* 1	11.097	11.08657	0.0104		0.005	320
Dieldrin	* 1	11.642	11.65243	0.0104		0.003	267
Endrin	* 1	11.965	11.99529	0.0303		0.002	400
Methoxychlor	* 1	13.221	13.24029	0.0193		0.075	295
Endosulfan sulfate	1	13.613	13.58729	0.0257		0.072	1700
alpha-BHC	2	7.618	7.588857	0.0291		0.002	100
delta-BHC	2	8.938	8.939286	0.00129		0.036	80
Heptachlor	2	8.983	8.988714	0.00571		0.066	408
Chlordane-alpha	2	10.951	10.94843	0.00257		0.021	320
Dieldrin	2	11.442	11.42657	0.0154		0.011	267
Endrin	2	11.89	11.86814	0.0219		0.010	400
Methoxychlor	2	13.533	13.54314	0.0101		0.019	295
Endosulfan sulfate	* 2	13.103	13.07857	0.0244		0.004	1700
2,4,5,6-TCMX	* 1	6.582	6.578857	0.00314		0.701	3.55
2,4,5,6-TCMX	2	6.314	6.311	0.003		0.677	
DBC	* 1	13.854	13.85357	0.00043		0.900	9.76
DBC	2	13.681	13.67986	0.00114		0.820	

* Column used for quantitation

$$\frac{C_H - C_L}{C_L} \times 100 = \%D$$

$$\frac{|C_1 - C_2|}{\left(\frac{C_1 + C_2}{2}\right)} \quad RPD$$

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-02	File ID:	9L1A020-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 22:44
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
gamma-BHC	* 1	8.395	8.36	0.035		0.058	2380	R frm
delta-BHC	1	8.876	8.861	0.015		4.0	285	R frm
Heptachlor	* 1	9.229	9.196571	0.0324		0.029	6380	R frm
Aldrin	1	9.672	9.697286	0.0253		3.8	483	R frm
Chlordane-gamma	* 1	10.878	10.88429	0.00629		0.039	1060	R frm
Chlordane-alpha	* 1	11.075	11.08657	0.0116		0.58	36.2	J frm
4,4'-DDE	* 1	11.228	11.22971	0.00171		0.13		R frm
Dieldrin	* 1	11.654	11.65243	0.00157		0.018	3580	R frm
Endrin	* 1	12.005	11.99529	0.00971		0.044	1220	R frm
4,4'-DDD	* 1	12.117	12.12643	0.00943		0.076		R frm
Methoxychlor	* 1	13.259	13.24029	0.0187		1.1	93.5	J frm
Endosulfan sulfate	* 1	13.578	13.58729	0.00929		0.21	203	R frm
Endrin ketone	* 1	13.976	13.981	0.005		1.0	139	R frm
gamma-BHC	2	8.273	8.25	0.023		1.4	2380	
delta-BHC	* 2	8.938	8.939286	0.00129		1.0	287	
Heptachlor	2	8.983	8.988714	0.00571		1.9	6370	
Aldrin	* 2	9.514	9.507857	0.00614		0.65	483	
Chlordane-gamma	2	10.728	10.72443	0.00357		0.45	1060	
Chlordane-alpha	2	10.947	10.94843	0.00143		0.79	36.2	
4,4'-DDE	2	11.243	11.24086	0.00214		0.52		
Dieldrin	2	11.442	11.42657	0.0154		0.66	3580	
Endrin	2	11.886	11.86814	0.0179		0.58	1220	
4,4'-DDD	2	12.066	12.09171	0.0257		0.49		
Methoxychlor	2	13.527	13.54314	0.0161		2.1	94.9	
Endosulfan sulfate	2	13.084	13.07857	0.00543		0.64	203	
Endrin ketone	2	13.851	13.833	0.018		0.42	139	
2,4,5,6-TCMX	* 1	6.581	6.578857	0.00214		0.741	17.4	
2,4,5,6-TCMX	2	6.311	6.311	0		0.870		
DBC	* 1	13.868	13.85357	0.0144		2.27	89.2	
DBC	2	13.682	13.67986	0.00214		1.20	88.4	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-03	File ID:	9L1A021-0
Sampled:	11/29/06 17:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 23:10
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.208	9.196571	0.0114		0.002	0.00000
Dieldrin	1	11.651	11.65243	0.00143		0.026	550
Heptachlor	2	8.978	8.988714	0.0107		0.002	0.00000
Dieldrin	* 2	11.409	11.42657	0.0176		0.004	550
2,4,5,6-TCMX	* 1	6.582	6.578857	0.00314		0.633	7.58
2,4,5,6-TCMX	2	6.314	6.311	0.003		0.681	
DBC	* 1	13.855	13.85357	0.00143		0.753	1.33
DBC	2	13.682	13.67986	0.00214		0.763	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-04	File ID:	9L1A022-0
Sampled:	11/29/06 14:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 23:36
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.208	9.196571	0.0114		0.002	0.00000
Dieldrin	1	11.651	11.65243	0.00143		0.028	833
Heptachlor	2	8.978	8.988714	0.0107		0.002	0.00000
Dieldrin	* 2	11.411	11.42657	0.0156		0.003	833
2,4,5,6-TCMX	* 1	6.582	6.578857	0.00314		0.586	8.36
2,4,5,6-TCMX	2	6.314	6.311	0.003		0.635	
DBC	* 1	13.855	13.85357	0.00143		0.726	1.52
DBC	2	13.682	13.67986	0.00214		0.737	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-05	File ID:	9L1A023-0
Sampled:	11/29/06 15:35	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 00:02
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
delta-BHC	* 1	8.86	8.861	0.001		0.002	100
delta-BHC	2	8.938	8.939286	0.00129		0.004	
2,4,5,6-TCMX	* 1	6.581	6.578857	0.00214		0.691	3.44
2,4,5,6-TCMX	2	6.313	6.311	0.002		0.668	
DBC	* 1	13.854	13.85357	0.00043		0.780	1.03

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-06	File ID:	9L1A024-0
Sampled:	11/29/06 16:35	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 00:28
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.232	11.22971	0.00229		0.002	
4,4'-DDE	2	11.244	11.24086	0.00314		0.002	
2,4,5,6-TCMX	* 1	6.581	6.578857	0.00214		0.596	2.85
2,4,5,6-TCMX	2	6.315	6.311	0.004		0.613	
DBC	* 1	13.853	13.85357	0.00057		0.641	1.72
DBC	2	13.68	13.67986	0.00014		0.652	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-07	File ID:	9L1A026-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 01:19
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	1	7.759	7.757286	0.00171		0.64	6.61	
gamma-BHC	1	8.363	8.36	0.003		1.1	8.49	
beta-BHC	1	8.554	8.557429	0.00343		3.0	179	R fr
delta-BHC	1	8.863	8.861	0.002		1.1	17.2	
Heptachlor	* 1	9.167	9.196571	0.0296		0.018	2800	R fr
Aldrin	1	9.684	9.697286	0.0133		2.6	8230	R fr
Heptachlor epoxide	* 1	10.705	10.68829	0.0167		0.036	2110	R fr
Chlordane-alpha	* 1	11.09	11.08657	0.00343		0.14	64.7	J fr
4,4'-DDE	1	11.23	11.22971	0.00029		0.094	6720	R fr
Dieldrin	1	11.654	11.65243	0.00157		0.32	32.8	J fr
4,4'-DDT	* 1	12.537	12.52529	0.0117		0.013		R fr
Methoxychlor	* 1	13.259	13.24029	0.0187		0.025	356	R fr
Endosulfan sulfate	* 1	13.574	13.58729	0.0133		0.009	278	R fr
Endrin ketone	* 1	13.978	13.981	0.003		0.23	5.48	
alpha-BHC	* 2	7.591	7.588857	0.00214		0.68	6.61	
gamma-BHC	* 2	8.252	8.25	0.002		1.2	8.77	
beta-BHC	* 2	8.447	8.446286	0.000714		1.1	178	
delta-BHC	* 2	8.94	8.939286	0.000714		1.3	17.2	
Heptachlor	2	8.983	8.988714	0.00571		0.52	2800	
Aldrin	* 2	9.513	9.507857	0.00514		0.031	8220	
Heptachlor epoxide	2	10.431	10.43157	0.00057		0.80	2110	
Chlordane-alpha	2	10.928	10.94843	0.0204		0.085	64.7	
4,4'-DDE	* 2	11.239	11.24086	0.00186		0.17	4870	
Dieldrin	* 2	11.43	11.42657	0.00343		0.42	32.8	
4,4'-DDT	2	12.542	12.535	0.007		0.030		
Methoxychlor	2	13.531	13.54314	0.0121		0.11	356	
Endosulfan sulfate	2	13.095	13.07857	0.0164		0.034	278	
Endrin ketone	2	13.847	13.833	0.014		0.22	5.48	
2,4,5,6-TCMX	* 1	6.58	6.578857	0.00114		2.69	16.4	
2,4,5,6-TCMX	2	6.312	6.311	0.001		3.13	16.3	
DBC	* 1	13.854	13.85357	0.00043		0.777	24.7	
DBC	2	13.681	13.67986	0.00114		0.623		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-07RE1	File ID:	9L2A032-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/05/06 02:17
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.35	12.12643	0.224		13	✓
4,4'-DDD	2	12.34	12.09171	0.248		14	✓

* Column used for quantitation

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L01004
Laboratory ID: 6L01004-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.725	72	60 - 130
gamma-BHC	1.00	0.737	74	25 - 135
beta-BHC	1.00	0.782	78	65 - 125
delta-BHC	1.00	0.782	78	45 - 135
Heptachlor	1.00	0.701	70	40 - 130
Aldrin	1.00	0.687	69	25 - 140
Heptachlor epoxide	1.00	0.716	72	60 - 130
Chlordane-gamma	1.00	0.719	72	60 - 125
Chlordane-alpha	1.00	0.714	71	65 - 125
4,4'-DDE	1.00	0.733	73	35 - 140
Endosulfan I	1.00	0.707	71	50 - 110
Dieldrin	1.00	0.724	72	60 - 130
Endrin	1.00	0.740	74	55 - 135
4,4'-DDD	1.00	0.752	75	25 - 150
Endosulfan II	1.00	0.741	74	30 - 130
4,4'-DDT	1.00	0.804	80	45 - 140
Endrin aldehyde	1.00	0.789	79	55 - 135
Methoxychlor	1.00	0.789	79	55 - 150
Endosulfan sulfate	1.00	0.779	78	55 - 135
Endrin ketone	1.00	0.753	75	75 - 125
alpha-BHC [2C]	1.00	0.732	73	60 - 130
gamma-BHC [2C]	1.00	0.744	74	25 - 135
beta-BHC [2C]	1.00	0.794	79	65 - 125
delta-BHC [2C]	1.00	0.771	77	45 - 135
Heptachlor [2C]	1.00	0.712	71	40 - 130
Aldrin [2C]	1.00	0.691	69	25 - 140
Heptachlor epoxide [2C]	1.00	0.719	72	60 - 130
Chlordane-gamma [2C]	1.00	0.724	72	60 - 125
Chlordane-alpha [2C]	1.00	0.713	71	65 - 125
4,4'-DDE [2C]	1.00	0.740	74	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L01004	Laboratory ID:	6L01004-BS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.717	72	50 - 110
Dieldrin [2C]	1.00	0.732	73	60 - 130
Endrin [2C]	1.00	0.736	74	55 - 135
4,4'-DDD [2C]	1.00	0.740	74	25 - 150
Endosulfan II [2C]	1.00	0.728	73	30 - 130
4,4'-DDT [2C]	1.00	0.823	82	45 - 140
Endrin aldehyde [2C]	1.00	0.786	79	55 - 135
Methoxychlor [2C]	1.00	0.842	84	55 - 150
Endosulfan sulfate [2C]	1.00	0.784	78	55 - 135
Endrin ketone [2C]	1.00	0.760	76	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L01004-BLK1	File ID:	9L1A015-0
Prepared:	12/01/06 09:15	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/01/06 20:34	Instrument:	JSVGCECD2		
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4′-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4′-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4′-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.0	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L01004-BLK1	File ID:	9L1B015-0
Prepared:	12/01/06 09:15	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/01/06 20:34	Instrument:	JSVGCECD2		
Batch:	6L01004	Sequence:	BA00086	Calibration:	0612019

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.765	76	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.765	76	25 - 140	
DBC	1.00	0.877	88	30 - 135	
DBC [2C]	1.00	0.871	87	30 - 135	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L01004 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L01004-BLK1	9L1B015-0	12/01/06 09:15	
Blank	6L01004-BLK1	9L1A015-0	12/01/06 09:15	
LCS	6L01004-BS1	9L1B016-0	12/01/06 09:15	
LCS	6L01004-BS1	9L1A016-0	12/01/06 09:15	
JAX-47-937MW1S-112906	6L01004-MS1	9L1B017-0	12/01/06 09:15	
JAX-47-937MW1S-112906	6L01004-MS1	9L1A017-0	12/01/06 09:15	
JAX-47-937MW1S-112906	6L01004-MSD1	9L1A018-0	12/01/06 09:15	
JAX-47-937MW1S-112906	6L01004-MSD1	9L1B018-0	12/01/06 09:15	
JAX-47-937MW1S-112906	B610310-01	9L1A019-0	12/01/06 09:15	Use this sample as your MS/MSD
JAX-47-937MW1S-112906	B610310-01	9L1B019-0	12/01/06 09:15	Use this sample as your MS/MSD
JAX-47-937MW5S-112906	B610310-02	9L1A020-0	12/01/06 09:15	
JAX-47-937MW5S-112906	B610310-02	9L1B020-0	12/01/06 09:15	
JAX-47-EB03	B610310-03	9L1B021-0	12/01/06 09:15	
JAX-47-EB03	B610310-03	9L1A021-0	12/01/06 09:15	
JAX-47-EB04	B610310-04	9L1B022-0	12/01/06 09:15	
JAX-47-EB04	B610310-04	9L1A022-0	12/01/06 09:15	
JAX-47-MW15D-112906	B610310-05	9L1A023-0	12/01/06 09:15	
JAX-47-MW15D-112906	B610310-05	9L1B023-0	12/01/06 09:15	
JAX-47-MW15S-112906	B610310-06	9L1A024-0	12/01/06 09:15	
JAX-47-MW15S-112906	B610310-06	9L1B024-0	12/01/06 09:15	
JAX47-937MW3S-112906	B610310-07	9L1B026-0	12/01/06 09:15	
JAX47-937MW3S-112906	B610310-07	9L1A026-0	12/01/06 09:15	
JAX47-937MW3S-112906	B610310-07RE1	9L2B032-0	12/01/06 09:15	Added 12/11/06 by JBH
JAX47-937MW3S-112906	B610310-07RE1	9L2A032-0	12/01/06 09:15	Added 12/11/06 by JBH

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00086	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00086-IBL1	9L1A001-0	12/01/06 10:32
Instrument Blank	BA00086-IBL1	9L1B001-0	12/01/06 10:32
Performance Mix	BA00086-PEM1	9L1A002-0	12/01/06 10:58
Performance Mix	BA00086-PEM1	9L1B002-0	12/01/06 10:58
Calibration Check	BA00086-CCV1	9L1B014-0	12/01/06 20:08
Calibration Check	BA00086-CCV1	9L1A014-0	12/01/06 20:08
Blank	6L01004-BLK1	9L1B015-0	12/01/06 20:34
Blank	6L01004-BLK1	9L1A015-0	12/01/06 20:34
LCS	6L01004-BS1	9L1A016-0	12/01/06 21:00
LCS	6L01004-BS1	9L1B016-0	12/01/06 21:00
JAX-47-937MW1S-112906	6L01004-MS1	9L1A017-0	12/01/06 21:26
JAX-47-937MW1S-112906	6L01004-MS1	9L1B017-0	12/01/06 21:26
JAX-47-937MW1S-112906	6L01004-MSD1	9L1A018-0	12/01/06 21:52
JAX-47-937MW1S-112906	6L01004-MSD1	9L1B018-0	12/01/06 21:52
JAX-47-937MW1S-112906	B610310-01	9L1B019-0	12/01/06 22:18
JAX-47-937MW1S-112906	B610310-01	9L1A019-0	12/01/06 22:18
JAX-47-937MW5S-112906	B610310-02	9L1A020-0	12/01/06 22:44
JAX-47-937MW5S-112906	B610310-02	9L1B020-0	12/01/06 22:44
JAX-47-EB03	B610310-03	9L1B021-0	12/01/06 23:10
JAX-47-EB03	B610310-03	9L1A021-0	12/01/06 23:10
JAX-47-EB04	B610310-04	9L1A022-0	12/01/06 23:36
JAX-47-EB04	B610310-04	9L1B022-0	12/01/06 23:36
JAX-47-MW15D-112906	B610310-05	9L1B023-0	12/02/06 00:02
JAX-47-MW15D-112906	B610310-05	9L1A023-0	12/02/06 00:02
JAX-47-MW15S-112906	B610310-06	9L1B024-0	12/02/06 00:28
JAX-47-MW15S-112906	B610310-06	9L1A024-0	12/02/06 00:28
Calibration Check	BA00086-CCV2	9L1B025-0	12/02/06 00:53
Calibration Check	BA00086-CCV2	9L1A025-0	12/02/06 00:53
JAX47-937MW3S-112906	B610310-07	9L1B026-0	12/02/06 01:19
JAX47-937MW3S-112906	B610310-07	9L1A026-0	12/02/06 01:19
Calibration Check	BA00086-CCV3	9L1A027-0	12/02/06 01:45
Calibration Check	BA00086-CCV3	9L1B027-0	12/02/06 01:45

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00086	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00086-IBL2	9L2A001-0	12/02/06 20:24
Instrument Blank	BA00086-IBL2	9L2B001-0	12/02/06 20:24
Performance Mix	BA00086-PEM2	9L2A002-0	12/03/06 13:54
Performance Mix	BA00086-PEM2	9L2B002-0	12/03/06 13:54
Calibration Check	BA00086-CCV4	9L2A030-0	12/05/06 01:26
Calibration Check	BA00086-CCV4	9L2B030-0	12/05/06 01:26
JAX47-937MW3S-112906	B610310-07RE1	9L2A032-0	12/05/06 02:17
JAX47-937MW3S-112906	B610310-07RE1	9L2B032-0	12/05/06 02:17
Calibration Check	BA00086-CCV5	9L2B033-0	12/05/06 02:43
Calibration Check	BA00086-CCV5	9L2A033-0	12/05/06 02:43

HOLDING TIME SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX-47-937MW1S-112906	11/29/06 13:48	11/30/06 11:35	12/01/06 09:15	2.00	7.00	12/01/06 22:18	1.00	40.00	
JAX-47-937MW5S-112906	11/29/06 16:00	11/30/06 11:35	12/01/06 09:15	2.00	7.00	12/01/06 22:44	1.00	40.00	
JAX-47-EB03	11/29/06 17:00	11/30/06 11:35	12/01/06 09:15	2.00	7.00	12/01/06 23:10	1.00	40.00	
JAX-47-EB04	11/29/06 14:00	11/30/06 11:35	12/01/06 09:15	2.00	7.00	12/01/06 23:36	1.00	40.00	
JAX-47-MW15D-112906	11/29/06 15:35	11/30/06 11:35	12/01/06 09:15	2.00	7.00	12/02/06 00:02	1.00	40.00	
JAX-47-MW15S-112906	11/29/06 16:35	11/30/06 11:35	12/01/06 09:15	2.00	7.00	12/02/06 00:28	1.00	40.00	
JAX47-937MW3S-112906	11/29/06 16:00	11/30/06 11:35	12/01/06 09:15	2.00	7.00	12/02/06 01:19	1.00	40.00	
JAX47-937MW3S-112906	11/29/06 16:00	11/30/06 11:35	12/01/06 09:15	2.00	7.00	12/05/06 02:17	4.00	40.00	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L1A014-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/01/06
Lab Sample ID:	BA00086-CCV1	Injection Time:	20:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0936	7.398562E+07	6.92487E+07		-6.4	20
gamma-BHC	A	0.100	0.0934	6.491869E+07	6.06468E+07		-6.6	20
beta-BHC	A	0.100	0.0967	2.324562E+07	2.2482E+07		-3.3	20
delta-BHC	A	0.100	0.0997	4.983083E+07	4.96953E+07		-0.3	20
Heptachlor	A	0.100	0.0902	6.182335E+07	5.57782E+07		-9.8	20
Aldrin	A	0.100	0.0907	6.313387E+07	5.72719E+07		-9.3	20
Heptachlor epoxide	A	0.100	0.0882	5.464768E+07	4.82147E+07		-11.8	20
Chlordane-gamma	A	0.100	0.0900	5.693179E+07	5.12127E+07		-10.0	20
Chlordane-alpha	A	0.100	0.0891	5.472262E+07	4.87416E+07		-10.9	20
4,4′-DDE	A	0.100	0.0888	5.1587E+07	4.58326E+07		-11.2	20
Endosulfan I	A	0.100	0.0895	5.229753E+07	4.68182E+07		-10.5	20
Dieldrin	A	0.100	0.0894	5.202288E+07	4.6507E+07		-10.6	20
Endrin	A	0.100	0.0907	4.866294E+07	4.41385E+07		-9.3	20
4,4′-DDD	A	0.100	0.0910	3.851972E+07	3.50699E+07		-9.0	20
Endosulfan II	A	0.100	0.0903	4.404929E+07	3.97694E+07		-9.7	20
4,4′-DDT	A	0.100	0.0937	3.568835E+07	3.3448E+07		-6.3	20
Endrin aldehyde	A	0.100	0.0964	3.019672E+07	2.91208E+07		-3.6	20
Methoxychlor	A	0.100	0.0869	1.779768E+07	1.54668E+07		-13.1	20
Endosulfan sulfate	A	0.100	0.0936	3.317137E+07	3.106E+07		-6.4	20
Endrin ketone	A	0.100	0.0903	4.394762E+07	3.96852E+07		-9.7	20
alpha-BHC [2C]	A	0.100	0.0936	7.828165E+07	7.32341E+07		-6.4	20
gamma-BHC [2C]	A	0.100	0.0937	6.871985E+07	6.43776E+07		-6.3	20
beta-BHC [2C]	A	0.100	0.0977	2.514164E+07	2.45621E+07		-2.3	20
delta-BHC [2C]	A	0.100	0.0986	5.308931E+07	5.23323E+07		-1.4	20
Heptachlor [2C]	A	0.100	0.0914	6.610146E+07	6.04208E+07		-8.6	20
Aldrin [2C]	A	0.100	0.0904	6.765244E+07	6.11627E+07		-9.6	20
Heptachlor epoxide [2C]	A	0.100	0.0883	5.916389E+07	5.22551E+07		-11.7	20
Chlordane-gamma [2C]	A	0.100	0.0898	6.192916E+07	5.56243E+07		-10.2	20
Chlordane-alpha [2C]	A	0.100	0.0894	5.890229E+07	5.26446E+07		-10.6	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L1B014-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/01/06
Lab Sample ID:	BA00086-CCV1	Injection Time:	20:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0914	5.631129E+07	5.1479E+07		-8.6	20
Endosulfan I [2C]	A	0.100	0.0899	5.389465E+07	4.84664E+07		-10.1	20
Dieldrin [2C]	A	0.100	0.0902	5.915392E+07	5.33706E+07		-9.8	20
Endrin [2C]	A	0.100	0.0900	5.057263E+07	4.54902E+07		-10.0	20
4,4'-DDD [2C]	A	0.100	0.0913	4.247934E+07	3.86441E+07		-9.0	20
Endosulfan II [2C]	A	0.100	0.0911	4.869335E+07	4.43085E+07		-9.0	20
4,4'-DDT [2C]	A	0.100	0.0971	3.693651E+07	3.58801E+07		-2.9	20
Endrin aldehyde [2C]	A	0.100	0.0978	3.253183E+07	3.18309E+07		-2.2	20
Methoxychlor [2C]	A	0.100	0.0928	1.7353E+07	1.61065E+07		-7.2	20
Endosulfan sulfate [2C]	A	0.100	0.0940	3.596362E+07	3.37995E+07		-6.0	20
Endrin ketone [2C]	A	0.100	0.0905	4.611414E+07	4.17495E+07		-9.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L1A025-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/02/06
Lab Sample ID:	BA00086-CCV2	Injection Time:	00:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.101	7.398562E+07	7.44646E+07		0.6	20
gamma-BHC	A	0.100	0.101	6.491869E+07	6.55094E+07		0.9	20
beta-BHC	A	0.100	0.104	2.324562E+07	2.4141E+07		3.9	20
delta-BHC	A	0.100	0.111	4.983083E+07	5.51025E+07		10.6	20
Heptachlor	A	0.100	0.0962	6.182335E+07	5.94529E+07		-3.8	20
Aldrin	A	0.100	0.0969	6.313387E+07	6.11995E+07		-3.1	20
Heptachlor epoxide	A	0.100	0.0944	5.464768E+07	5.15828E+07		-5.6	20
Chlordane-gamma	A	0.100	0.0966	5.693179E+07	5.50113E+07		-3.4	20
Chlordane-alpha	A	0.100	0.0955	5.472262E+07	5.22809E+07		-4.5	20
4,4'-DDE	A	0.100	0.0951	5.1587E+07	4.90445E+07		-4.9	20
Endosulfan I	A	0.100	0.0956	5.229753E+07	5.00028E+07		-4.4	20
Dieldrin	A	0.100	0.0954	5.202288E+07	4.96052E+07		-4.6	20
Endrin	A	0.100	0.0976	4.866294E+07	4.7508E+07		-2.4	20
4,4'-DDD	A	0.100	0.0991	3.851972E+07	3.81589E+07		-0.9	20
Endosulfan II	A	0.100	0.0974	4.404929E+07	4.29091E+07		-2.6	20
4,4'-DDT	A	0.100	0.104	3.568835E+07	3.71727E+07		4.2	20
Endrin aldehyde	A	0.100	0.104	3.019672E+07	3.13717E+07		3.9	20
Methoxychlor	A	0.100	0.0982	1.779768E+07	1.74841E+07		-1.8	20
Endosulfan sulfate	A	0.100	0.103	3.317137E+07	3.41135E+07		2.8	20
Endrin ketone	A	0.100	0.0994	4.394762E+07	4.36631E+07		-0.6	20
alpha-BHC [2C]	A	0.100	0.101	7.828165E+07	7.93002E+07		1.3	20
gamma-BHC [2C]	A	0.100	0.102	6.871985E+07	6.99993E+07		1.9	20
beta-BHC [2C]	A	0.100	0.106	2.514164E+07	2.66058E+07		5.8	20
delta-BHC [2C]	A	0.100	0.110	5.308931E+07	5.82444E+07		9.7	20
Heptachlor [2C]	A	0.100	0.0994	6.610146E+07	6.56975E+07		-0.6	20
Aldrin [2C]	A	0.100	0.0974	6.765244E+07	6.59052E+07		-2.6	20
Heptachlor epoxide [2C]	A	0.100	0.0954	5.916389E+07	5.64717E+07		-4.6	20
Chlordane-gamma [2C]	A	0.100	0.0971	6.192916E+07	6.0116E+07		-2.9	20
Chlordane-alpha [2C]	A	0.100	0.0967	5.890229E+07	5.69679E+07		-3.3	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L1B025-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/02/06
Lab Sample ID:	BA00086-CCV2	Injection Time:	00:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0984	5.631129E+07	5.54371E+07		-1.6	20
Endosulfan I [2C]	A	0.100	0.0975	5.389465E+07	5.25621E+07		-2.5	20
Dieldrin [2C]	A	0.100	0.0978	5.915392E+07	5.78343E+07		-2.2	20
Endrin [2C]	A	0.100	0.0981	5.057263E+07	4.95999E+07		-1.9	20
4,4'-DDD [2C]	A	0.100	0.101	4.247934E+07	4.26823E+07		0.5	20
Endosulfan II [2C]	A	0.100	0.0991	4.869335E+07	4.81933E+07		-1.0	20
4,4'-DDT [2C]	A	0.100	0.110	3.693651E+07	4.07658E+07		10.4	20
Endrin aldehyde [2C]	A	0.100	0.107	3.253183E+07	3.48181E+07		7.0	20
Methoxychlor [2C]	A	0.100	0.103	1.7353E+07	1.78819E+07		3.0	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.596362E+07	3.75545E+07		4.4	20
Endrin ketone [2C]	A	0.100	0.101	4.611414E+07	4.65389E+07		0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L1A027-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/02/06
Lab Sample ID:	BA00086-CCV3	Injection Time:	01:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.104	7.398562E+07	7.67699E+07		3.8	20
gamma-BHC	A	0.100	0.104	6.491869E+07	6.76507E+07		4.2	20
beta-BHC	A	0.100	0.108	2.324562E+07	2.50404E+07		7.7	20
delta-BHC	A	0.100	0.119	4.983083E+07	5.9202E+07		18.8	20
Heptachlor	A	0.100	0.0996	6.182335E+07	6.15788E+07		-0.4	20
Aldrin	A	0.100	0.0994	6.313387E+07	6.2763E+07		-0.6	20
Heptachlor epoxide	A	0.100	0.0972	5.464768E+07	5.31179E+07		-2.8	20
Chlordane-gamma	A	0.100	0.0992	5.693179E+07	5.64789E+07		-0.8	20
Chlordane-alpha	A	0.100	0.0980	5.472262E+07	5.36523E+07		-2.0	20
4,4'-DDE	A	0.100	0.0985	5.1587E+07	5.08304E+07		-1.5	20
Endosulfan I	A	0.100	0.0977	5.229753E+07	5.11168E+07		-2.3	20
Dieldrin	A	0.100	0.0985	5.202288E+07	5.12646E+07		-1.5	20
Endrin	A	0.100	0.101	4.866294E+07	4.90847E+07		0.9	20
4,4'-DDD	A	0.100	0.104	3.851972E+07	3.9915E+07		3.6	20
Endosulfan II	A	0.100	0.101	4.404929E+07	4.43446E+07		0.7	20
4,4'-DDT	A	0.100	0.111	3.568835E+07	3.94971E+07		10.7	20
Endrin aldehyde	A	0.100	0.109	3.019672E+07	3.28207E+07		8.7	20
Methoxychlor	A	0.100	0.105	1.779768E+07	1.86351E+07		4.7	20
Endosulfan sulfate	A	0.100	0.110	3.317137E+07	3.65469E+07		10.2	20
Endrin ketone	A	0.100	0.104	4.394762E+07	4.58469E+07		4.3	20
alpha-BHC [2C]	A	0.100	0.105	7.828165E+07	8.1853E+07		4.6	20
gamma-BHC [2C]	A	0.100	0.105	6.871985E+07	7.22524E+07		5.1	20
beta-BHC [2C]	A	0.100	0.110	2.514164E+07	2.76638E+07		10.0	20
delta-BHC [2C]	A	0.100	0.118	5.308931E+07	6.256E+07		17.8	20
Heptachlor [2C]	A	0.100	0.102	6.610146E+07	6.75949E+07		2.3	20
Aldrin [2C]	A	0.100	0.0999	6.765244E+07	6.75905E+07		-0.09	20
Heptachlor epoxide [2C]	A	0.100	0.0981	5.916389E+07	5.80228E+07		-1.9	20
Chlordane-gamma [2C]	A	0.100	0.0995	6.192916E+07	6.16106E+07		-0.5	20
Chlordane-alpha [2C]	A	0.100	0.0977	5.890229E+07	5.75407E+07		-2.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L1B027-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/02/06
Lab Sample ID:	BA00086-CCV3	Injection Time:	01:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.101	5.631129E+07	5.70827E+07		1.4	20
Endosulfan I [2C]	A	0.100	0.0982	5.389465E+07	5.29271E+07		-1.8	20
Dieldrin [2C]	A	0.100	0.100	5.915392E+07	5.94238E+07		0.5	20
Endrin [2C]	A	0.100	0.101	5.057263E+07	5.13053E+07		1.4	20
4,4'-DDD [2C]	A	0.100	0.105	4.247934E+07	4.4478E+07		4.7	20
Endosulfan II [2C]	A	0.100	0.102	4.869335E+07	4.97638E+07		2.2	20
4,4'-DDT [2C]	A	0.100	0.117	3.693651E+07	4.32763E+07		17.2	20
Endrin aldehyde [2C]	A	0.100	0.112	3.253183E+07	3.63092E+07		11.6	20
Methoxychlor [2C]	A	0.100	0.115	1.7353E+07	1.98966E+07		14.7	20
Endosulfan sulfate [2C]	A	0.100	0.111	3.596362E+07	3.97822E+07		10.6	20
Endrin ketone [2C]	A	0.100	0.105	4.611414E+07	4.85413E+07		5.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L2A030-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/05/06
Lab Sample ID:	BA00086-CCV4	Injection Time:	01:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0975	7.398562E+07	7.21113E+07		-2.5	20
gamma-BHC	A	0.100	0.0974	6.491869E+07	6.32307E+07		-2.6	20
beta-BHC	A	0.100	0.102	2.324562E+07	2.36442E+07		1.7	20
delta-BHC	A	0.100	0.114	4.983083E+07	5.66814E+07		13.7	20
Heptachlor	A	0.100	0.0940	6.182335E+07	5.81328E+07		-6.0	20
Aldrin	A	0.100	0.0915	6.313387E+07	5.77418E+07		-8.5	20
Heptachlor epoxide	A	0.100	0.0897	5.464768E+07	4.90297E+07		-10.3	20
Chlordane-gamma	A	0.100	0.0907	5.693179E+07	5.16297E+07		-9.3	20
Chlordane-alpha	A	0.100	0.0891	5.472262E+07	4.87444E+07		-10.9	20
4,4′-DDE	A	0.100	0.0945	5.1587E+07	4.87705E+07		-5.5	20
Endosulfan I	A	0.100	0.0866	5.229753E+07	4.53096E+07		-13.4	20
Dieldrin	A	0.100	0.0917	5.202288E+07	4.77002E+07		-8.3	20
Endrin	A	0.100	0.0938	4.866294E+07	4.56276E+07		-6.2	20
4,4′-DDD	A	0.100	0.101	3.851972E+07	3.90054E+07		1.3	20
Endosulfan II	A	0.100	0.0925	4.404929E+07	4.07359E+07		-7.5	20
4,4′-DDT	A	0.100	0.0979	3.568835E+07	3.49234E+07		-2.1	20
Endrin aldehyde	A	0.100	0.100	3.019672E+07	3.0289E+07		0.3	20
Methoxychlor	A	0.100	0.0993	1.779768E+07	1.76732E+07		-0.7	20
Endosulfan sulfate	A	0.100	0.101	3.317137E+07	3.34998E+07		1.0	20
Endrin ketone	A	0.100	0.0941	4.394762E+07	4.13385E+07		-5.9	20
alpha-BHC [2C]	A	0.100	0.0949	7.828165E+07	7.42946E+07		-5.1	20
gamma-BHC [2C]	A	0.100	0.0946	6.871985E+07	6.50358E+07		-5.4	20
beta-BHC [2C]	A	0.100	0.100	2.514164E+07	2.51768E+07		0.1	20
delta-BHC [2C]	A	0.100	0.108	5.308931E+07	5.71393E+07		7.6	20
Heptachlor [2C]	A	0.100	0.0919	6.610146E+07	6.07173E+07		-8.1	20
Aldrin [2C]	A	0.100	0.0884	6.765244E+07	5.98339E+07		-11.6	20
Heptachlor epoxide [2C]	A	0.100	0.0868	5.916389E+07	5.13681E+07		-13.2	20
Chlordane-gamma [2C]	A	0.100	0.0867	6.192916E+07	5.3718E+07		-13.3	20
Chlordane-alpha [2C]	A	0.100	0.0857	5.890229E+07	5.04645E+07		-14.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L2B030-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/05/06
Lab Sample ID:	BA00086-CCV4	Injection Time:	01:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0896	5.631129E+07	5.04333E+07		-10.4	20
Endosulfan I [2C]	A	0.100	0.0863	5.389465E+07	4.64866E+07		-13.7	20
Dieldrin [2C]	A	0.100	0.0878	5.915392E+07	5.19607E+07		-12.2	20
Endrin [2C]	A	0.100	0.0913	5.057263E+07	4.61493E+07		-8.7	20
4,4'-DDD [2C]	A	0.100	0.0957	4.247934E+07	4.05351E+07		-4.6	20
Endosulfan II [2C]	A	0.100	0.0878	4.869335E+07	4.27011E+07		-12.3	20
4,4'-DDT [2C]	A	0.100	0.0970	3.693651E+07	3.58356E+07		-3.0	20
Endrin aldehyde [2C]	A	0.100	0.0976	3.253183E+07	3.17435E+07		-2.4	20
Methoxychlor [2C]	A	0.100	0.0996	1.7353E+07	1.72915E+07		-0.4	20
Endosulfan sulfate [2C]	A	0.100	0.0978	3.596362E+07	3.51674E+07		-2.2	20
Endrin ketone [2C]	A	0.100	0.0910	4.611414E+07	4.19509E+07		-9.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L2A033-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/05/06
Lab Sample ID:	BA00086-CCV5	Injection Time:	02:43

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.103	7.398562E+07	7.64928E+07		3.4	20
gamma-BHC	A	0.100	0.104	6.491869E+07	6.75682E+07		4.1	20
beta-BHC	A	0.100	0.110	2.324562E+07	2.5444E+07		9.5	20
delta-BHC	A	0.100	0.121	4.983083E+07	6.01547E+07		20.7	20 *
Heptachlor	A	0.100	0.100	6.182335E+07	6.19128E+07		0.1	20
Aldrin	A	0.100	0.0988	6.313387E+07	6.23716E+07		-1.2	20
Heptachlor epoxide	A	0.100	0.0960	5.464768E+07	5.24816E+07		-4.0	20
Chlordane-gamma	A	0.100	0.0980	5.693179E+07	5.57829E+07		-2.0	20
Chlordane-alpha	A	0.100	0.0969	5.472262E+07	5.30019E+07		-3.1	20
4,4'-DDE	A	0.100	0.101	5.1587E+07	5.22483E+07		1.3	20
Endosulfan I	A	0.100	0.0939	5.229753E+07	4.91322E+07		-6.1	20
Dieldrin	A	0.100	0.0980	5.202288E+07	5.09898E+07		-2.0	20
Endrin	A	0.100	0.100	4.866294E+07	4.88399E+07		0.4	20
4,4'-DDD	A	0.100	0.107	3.851972E+07	4.12559E+07		7.1	20
Endosulfan II	A	0.100	0.0996	4.404929E+07	4.38854E+07		-0.4	20
4,4'-DDT	A	0.100	0.110	3.568835E+07	3.91648E+07		9.7	20
Endrin aldehyde	A	0.100	0.109	3.019672E+07	3.28615E+07		8.8	20
Methoxychlor	A	0.100	0.108	1.779768E+07	1.91944E+07		7.8	20
Endosulfan sulfate	A	0.100	0.108	3.317137E+07	3.57325E+07		7.7	20
Endrin ketone	A	0.100	0.103	4.394762E+07	4.52457E+07		3.0	20
alpha-BHC [2C]	A	0.100	0.0996	7.828165E+07	7.79651E+07		-0.4	20
gamma-BHC [2C]	A	0.100	0.0998	6.871985E+07	6.85887E+07		-0.2	20
beta-BHC [2C]	A	0.100	0.106	2.514164E+07	2.67379E+07		6.3	20
delta-BHC [2C]	A	0.100	0.115	5.308931E+07	6.08495E+07		14.6	20
Heptachlor [2C]	A	0.100	0.0966	6.610146E+07	6.38344E+07		-3.4	20
Aldrin [2C]	A	0.100	0.0946	6.765244E+07	6.39996E+07		-5.4	20
Heptachlor epoxide [2C]	A	0.100	0.0925	5.916389E+07	5.47257E+07		-7.5	20
Chlordane-gamma [2C]	A	0.100	0.0939	6.192916E+07	5.8125E+07		-6.1	20
Chlordane-alpha [2C]	A	0.100	0.0923	5.890229E+07	5.43623E+07		-7.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9L2B033-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00086	Injection Date:	12/05/06
Lab Sample ID:	BA00086-CCV5	Injection Time:	02:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0965	5.631129E+07	5.43311E+07		-3.5	20
Endosulfan I [2C]	A	0.100	0.0923	5.389465E+07	4.97208E+07		-7.7	20
Dieldrin [2C]	A	0.100	0.0950	5.915392E+07	5.61971E+07		-5.0	20
Endrin [2C]	A	0.100	0.0975	5.057263E+07	4.93092E+07		-2.5	20
4,4'-DDD [2C]	A	0.100	0.101	4.247934E+07	4.2778E+07		0.7	20
Endosulfan II [2C]	A	0.100	0.0943	4.869335E+07	4.5879E+07		-5.8	20
4,4'-DDT [2C]	A	0.100	0.110	3.693651E+07	4.07799E+07		10.4	20
Endrin aldehyde [2C]	A	0.100	0.106	3.253183E+07	3.43113E+07		5.5	20
Methoxychlor [2C]	A	0.100	0.110	1.7353E+07	1.90395E+07		9.7	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.596362E+07	3.73473E+07		3.8	20
Endrin ketone [2C]	A	0.100	0.0983	4.611414E+07	4.53157E+07		-1.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-01	File ID:	9L1A019-0
Sampled:	11/29/06 13:48	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 22:18
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.755	7.757286	0.00229		0.004	100.0
gamma-BHC	* 1	8.416	8.36	0.056		0.002	0.0
delta-BHC	* 1	8.876	8.861	0.015		0.020	80.0
Heptachlor	* 1	9.193	9.196571	0.00357		0.013	407.7
Chlordane-alpha	* 1	11.097	11.08657	0.0104		0.005	320.0
Dieldrin	* 1	11.642	11.65243	0.0104		0.003	266.7
Endrin	* 1	11.965	11.99529	0.0303		0.002	400.0
Methoxychlor	* 1	13.221	13.24029	0.0193		0.075	294.7
Endosulfan sulfate	1	13.613	13.58729	0.0257		0.072	1700.0
alpha-BHC	2	7.618	7.588857	0.0291		0.002	100.0
delta-BHC	2	8.938	8.939286	0.00129		0.036	80.0
Heptachlor	2	8.983	8.988714	0.00571		0.066	407.7
Chlordane-alpha	2	10.951	10.94843	0.00257		0.021	320.0
Dieldrin	2	11.442	11.42657	0.0154		0.011	266.7
Endrin	2	11.89	11.86814	0.0219		0.010	400.0
Methoxychlor	2	13.533	13.54314	0.0101		0.019	294.7
Endosulfan sulfate	* 2	13.103	13.07857	0.0244		0.004	1700.0
2,4,5,6-TCMX	* 1	6.582	6.578857	0.00314		0.701	3.5
2,4,5,6-TCMX	2	6.314	6.311	0.003		0.677	3.5
DBC	* 1	13.854	13.85357	0.00043		0.900	9.8
DBC	2	13.681	13.67986	0.00114		0.820	9.8

* Column used for quantitation

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00120	Instrument:	JSVGCECD2
Calibration:	0612019		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00120-CAL1	9L1B006-0	12/01/06 16:41
B6H0044	608/8081 - .005 ppm curve solution	BA00120-CAL1	9L1A006-0	12/01/06 16:41
B6H0045	608/8081 - .010 ppm curve solution	BA00120-CAL2	9L1B007-0	12/01/06 17:07
B6H0045	608/8081 - .010 ppm curve solution	BA00120-CAL2	9L1A007-0	12/01/06 17:07
B6H0046	608/8081 - .025 ppm curve solution	BA00120-CAL3	9L1B008-0	12/01/06 17:33
B6H0046	608/8081 - .025 ppm curve solution	BA00120-CAL3	9L1A008-0	12/01/06 17:33
B6H0047	608/8081 - .05 ppm curve solution	BA00120-CAL4	9L1B009-0	12/01/06 17:59
B6H0047	608/8081 - .05 ppm curve solution	BA00120-CAL4	9L1A009-0	12/01/06 17:59
B6H0048	608/8081 - .10 ppm curve solution	BA00120-CAL5	9L1B010-0	12/01/06 18:25
B6H0048	608/8081 - .10 ppm curve solution	BA00120-CAL5	9L1A010-0	12/01/06 18:25
B6H0049	608/8081 - .15 ppm curve solution	BA00120-CAL6	9L1B011-0	12/01/06 18:51
B6H0049	608/8081 - .15 ppm curve solution	BA00120-CAL6	9L1A011-0	12/01/06 18:51
B6H0050	608/8081 - .20 ppm curve solution	BA00120-CAL7	9L1B012-0	12/01/06 19:17
B6H0050	608/8081 - .20 ppm curve solution	BA00120-CAL7	9L1A012-0	12/01/06 19:17

200ug/L

20ug

0.2mg/L ~~tcl~~ 0.2ug

INITIAL CALIBRATION DATA

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.505234E+07	0.01	7.002064E+07	0.025	7.020876E+07	0.05	7.726578E+07	0.1	8.91644E+07	0.15	7.479246E+07
gamma-BHC	0.005	5.11061E+07	0.01	6.221556E+07	0.025	6.155912E+07	0.05	6.711686E+07	0.1	7.703248E+07	0.15	6.481706E+07
beta-BHC	0.005	2.250888E+07	0.01	2.276296E+07	0.025	2.237892E+07	0.05	2.364666E+07	0.1	2.556304E+07	0.15	2.253503E+07
delta-BHC	0.005	3.455666E+07	0.01	4.164534E+07	0.025	4.480356E+07	0.05	5.13689E+07	0.1	6.301373E+07	0.15	5.425041E+07
Heptachlor	0.005	5.394744E+07	0.01	6.326453E+07	0.025	5.940172E+07	0.05	6.28584E+07	0.1	7.109027E+07	0.15	5.865991E+07
Aldrin	0.005	5.215794E+07	0.01	6.342919E+07	0.025	6.035536E+07	0.05	6.461566E+07	0.1	7.387655E+07	0.15	6.103463E+07
Isodrin	0.005	4.264138E+07	0.01	4.946856E+07	0.025	4.55162E+07	0.05	4.769252E+07	0.1	5.399816E+07	0.15	4.458081E+07
Heptachlor epoxide	0.005	4.98651E+07	0.01	5.684878E+07	0.025	5.26652E+07	0.05	5.500404E+07	0.1	6.181025E+07	0.15	5.103291E+07
Chlordane-gamma	0.005	4.905186E+07	0.01	5.663538E+07	0.025	5.343784E+07	0.05	5.719942E+07	0.1	6.634003E+07	0.15	5.520083E+07
Chlordane-alpha	0.005	4.86786E+07	0.01	5.543567E+07	0.025	5.153864E+07	0.05	5.465638E+07	0.1	6.292115E+07	0.15	5.235237E+07
4,4'-DDE	0.005	4.511698E+07	0.01	4.886426E+07	0.025	4.78502E+07	0.05	5.158702E+07	0.1	6.091367E+07	0.15	5.056267E+07
Endosulfan I	0.005	4.623756E+07	0.01	5.513334E+07	0.025	5.014068E+07	0.05	5.263724E+07	0.1	5.95629E+07	0.15	4.920647E+07
Dieldrin	0.005	4.561066E+07	0.01	5.18615E+07	0.025	4.894512E+07	0.05	5.209832E+07	0.1	6.043279E+07	0.15	5.014079E+07
Endrin	0.005	4.212818E+07	0.01	4.865663E+07	0.025	4.599992E+07	0.05	4.902394E+07	0.1	5.682325E+07	0.15	4.709038E+07
4,4'-DDD	0.005	3.164258E+07	0.01	3.534146E+07	0.025	3.530548E+07	0.05	3.889828E+07	0.1	4.633001E+07	0.15	3.897371E+07
Endosulfan II	0.005	4.027916E+07	0.01	4.475768E+07	0.025	4.178996E+07	0.05	4.401528E+07	0.1	5.006433E+07	0.15	4.193467E+07
4,4'-DDT	0.005	2.594216E+07	0.01	3.152064E+07	0.025	3.185242E+07	0.05	3.593352E+07	0.1	4.451414E+07	0.15	3.750389E+07
Endrin aldehyde	0.005	2.86073E+07	0.01	2.996952E+07	0.025	3.063946E+07	0.05	3.10346E+07	0.1	3.270087E+07	0.15	2.88723E+07
Methoxychlor	0.005	1.679069E+07	0.01	1.736966E+07	0.025	1.640701E+07	0.05	1.73608E+07	0.1	2.038491E+07	0.15	1.707881E+07
Mirex	0.0025	3.681133E+07	0.005	4.02482E+07	0.0125	3.425905E+07	0.025	3.382679E+07	0.05	3.725758E+07	0.075	3.07504E+07
Endosulfan sulfate	0.005	3.095656E+07	0.01	3.275636E+07	0.025	3.151565E+07	0.05	3.339074E+07	0.1	3.719751E+07	0.15	3.223892E+07
Endrin ketone	0.005	3.919972E+07	0.01	4.363298E+07	0.025	4.155036E+07	0.05	4.414446E+07	0.1	5.031978E+07	0.15	4.25955E+07
alpha-BHC [2C]	0.005	5.885358E+07	0.01	7.68531E+07	0.025	7.707956E+07	0.05	8.309544E+07	0.1	9.325327E+07	0.15	7.714126E+07
gamma-BHC [2C]	0.005	5.4789E+07	0.01	6.745944E+07	0.025	6.689304E+07	0.05	7.195134E+07	0.1	8.080955E+07	0.15	6.72634E+07
beta-BHC [2C]	0.005	2.39395E+07	0.01	2.458065E+07	0.025	2.443706E+07	0.05	2.59759E+07	0.1	2.769742E+07	0.15	2.43298E+07
delta-BHC [2C]	0.005	3.71598E+07	0.01	4.591163E+07	0.025	4.988392E+07	0.05	5.632462E+07	0.1	6.609067E+07	0.15	5.614539E+07
Heptachlor [2C]	0.005	5.709608E+07	0.01	6.795972E+07	0.025	6.456152E+07	0.05	6.863156E+07	0.1	7.596898E+07	0.15	6.219029E+07
Aldrin [2C]	0.005	5.718772E+07	0.01	6.933834E+07	0.025	6.641032E+07	0.05	7.028312E+07	0.1	7.817022E+07	0.15	6.391287E+07
Isodrin [2C]	0.005	4.689294E+07	0.01	5.449988E+07	0.025	5.060732E+07	0.05	5.279708E+07	0.1	5.832917E+07	0.15	4.769322E+07
Heptachlor epoxide [2C]	0.005	5.435238E+07	0.01	6.265399E+07	0.025	5.872728E+07	0.05	6.081498E+07	0.1	6.623183E+07	0.15	5.404695E+07
Chlordane-gamma [2C]	0.005	5.418146E+07	0.01	6.2997E+07	0.025	5.998712E+07	0.05	6.344758E+07	0.1	7.115562E+07	0.15	5.865527E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	5.366218E+07	0.01	6.157693E+07	0.025	5.739892E+07	0.05	5.943788E+07	0.1	6.651774E+07	0.15	5.479261E+07
4,4'-DDE [2C]	0.005	4.62938E+07	0.01	5.375564E+07	0.025	5.341524E+07	0.05	5.811374E+07	0.1	6.711916E+07	0.15	5.533663E+07
Endosulfan I [2C]	0.005	4.927974E+07	0.01	5.698873E+07	0.025	5.330488E+07	0.05	5.465146E+07	0.1	6.048327E+07	0.15	4.963221E+07
Dieldrin [2C]	0.005	5.087686E+07	0.01	6.050144E+07	0.025	5.78944E+07	0.05	6.12726E+07	0.1	6.818807E+07	0.15	5.581013E+07
Endrin [2C]	0.005	4.427892E+07	0.01	5.182729E+07	0.025	4.929688E+07	0.05	5.209222E+07	0.1	5.801112E+07	0.15	4.752669E+07
4,4'-DDD [2C]	0.005	3.537354E+07	0.01	3.99924E+07	0.025	4.00174E+07	0.05	4.356242E+07	0.1	5.055757E+07	0.15	4.208391E+07
Endosulfan II [2C]	0.005	4.39486E+07	0.01	5.034173E+07	0.025	4.731136E+07	0.05	4.97636E+07	0.1	5.511519E+07	0.15	4.571471E+07
4,4'-DDT [2C]	0.005	2.566778E+07	0.01	3.118747E+07	0.025	3.317004E+07	0.05	3.814354E+07	0.1	4.700909E+07	0.15	3.941806E+07
Endrin aldehyde [2C]	0.005	3.129332E+07	0.01	3.177497E+07	0.025	3.223836E+07	0.05	3.40341E+07	0.1	3.562158E+07	0.15	3.119235E+07
Methoxychlor [2C]	0.005	1.491743E+07	0.01	1.669419E+07	0.025	1.604071E+07	0.05	1.80908E+07	0.1	2.001077E+07	0.15	1.668365E+07
Mirex [2C]	0.0025	4.202068E+07	0.005	4.393888E+07	0.0125	3.66293E+07	0.025	3.588842E+07	0.05	3.937208E+07	0.075	3.248043E+07
Endosulfan sulfate [2C]	0.005	3.393424E+07	0.01	3.554405E+07	0.025	3.473183E+07	0.05	3.685348E+07	0.1	4.025303E+07	0.15	3.4482E+07
Endrin ketone [2C]	0.005	4.139006E+07	0.01	4.651668E+07	0.025	4.461228E+07	0.05	4.718752E+07	0.1	5.248952E+07	0.15	4.392205E+07
2,4,5,6-TCMX	0.005	4.038382E+07	0.01	4.63885E+07	0.025	4.307652E+07	0.05	4.571434E+07	0.1	5.296239E+07	0.15	4.418503E+07
2,4,5,6-TCMX [2C]	0.005	4.58195E+07	0.01	5.282861E+07	0.025	4.91594E+07	0.05	5.18548E+07	0.1	5.868567E+07	0.15	4.823373E+07
DBC	0.005	3.395008E+07	0.01	3.743063E+07	0.025	3.449794E+07	0.05	3.638162E+07	0.1	4.263586E+07	0.15	3.549963E+07
DBC [2C]	0.005	3.67525E+07	0.01	4.082281E+07	0.025	3.7612E+07	0.05	3.93231E+07	0.1	4.474473E+07	0.15	3.690314E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.139495E+07										
gamma-BHC	0.2	7.058365E+07										
beta-BHC	0.2	2.332382E+07										
delta-BHC	0.2	5.91772E+07										
Heptachlor	0.2	6.35412E+07										
Aldrin	0.2	6.646775E+07										
Isodrin	0.2	4.860929E+07										
Heptachlor epoxide	0.2	5.53075E+07										
Chlordane-gamma	0.2	6.06572E+07										
Chlordane-alpha	0.2	5.747555E+07										
4,4'-DDE	0.2	5.62142E+07										
Endosulfan I	0.2	5.316455E+07										
Dieldrin	0.2	5.507095E+07										
Endrin	0.2	5.09183E+07										
4,4'-DDD	0.2	4.314654E+07										
Endosulfan II	0.2	4.550397E+07										
4,4'-DDT	0.2	4.255168E+07										
Endrin aldehyde	0.2	2.955302E+07										
Methoxychlor	0.2	1.91919E+07										
Mirex	0.1	3.381863E+07										
Endosulfan sulfate	0.2	3.414386E+07										
Endrin ketone	0.2	4.619054E+07										
alpha-BHC [2C]	0.2	8.16953E+07										
gamma-BHC [2C]	0.2	7.187315E+07										
beta-BHC [2C]	0.2	2.503114E+07										
delta-BHC [2C]	0.2	6.010915E+07										
Heptachlor [2C]	0.2	6.63021E+07										
Aldrin [2C]	0.2	6.82645E+07										
Isodrin [2C]	0.2	5.08702E+07										
Heptachlor epoxide [2C]	0.2	5.73198E+07										
Chlordane-gamma [2C]	0.2	6.308005E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.892975E+07										
4,4'-DDE [2C]	0.2	6.01448E+07										
Endosulfan I [2C]	0.2	5.292225E+07										
Dieldrin [2C]	0.2	5.953395E+07										
Endrin [2C]	0.2	5.09753E+07										
4,4'-DDD [2C]	0.2	4.576816E+07										
Endosulfan II [2C]	0.2	4.865824E+07										
4,4'-DDT [2C]	0.2	4.395956E+07										
Endrin aldehyde [2C]	0.2	3.156814E+07										
Methoxychlor [2C]	0.2	1.903347E+07										
Mirex [2C]	0.1	3.540572E+07										
Endosulfan sulfate [2C]	0.2	3.59467E+07										
Endrin ketone [2C]	0.2	4.668086E+07										
2,4,5,6-TCMX	0.2	4.865994E+07										
2,4,5,6-TCMX [2C]	0.2	5.234295E+07										
DBC	0.2	3.935926E+07										
DBC [2C]	0.2	4.010268E+07										

INITIAL CALIBRATION DATA (Continued)
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.398562E+07	14.44351	7.757286	2.111835E-02			20.4	
gamma-BHC	6.491869E+07	12.46762	8.36	1.617719E-02			20.4	
beta-BHC	2.324562E+07	4.8318	8.557429	1.876516E-02			20.4	
delta-BHC	4.983083E+07	20.2115	8.861	1.447878E-02			20.4	
Heptachlor	6.182335E+07	8.606743	9.196571	1.586097E-02			20.4	
Aldrin	6.313387E+07	10.45479	9.697286	1.233442E-02			20.4	
Isodrin	4.750099E+07	7.850342	10.24014	5.946941E-03			20.4	
Heptachlor epoxide	5.464768E+07	7.341674	10.68829	9.017128E-03			20.4	
Chlordane-gamma	5.693179E+07	9.61668	10.88429	0.011925			20.4	
Chlordane-alpha	5.472262E+07	8.426971	11.08657	1.488911E-02			20.4	
4,4'-DDE	5.1587E+07	10.39948	11.22971	1.642813E-02			20.4	
Endosulfan I	5.229753E+07	8.28437	11.289	7.631258E-03			20.4	
Dieldrin	5.202288E+07	9.090226	11.65243	1.033635E-02			20.4	
Endrin	4.866294E+07	9.344774	11.99529	5.869738E-03			20.4	
4,4'-DDD	3.851972E+07	13.00134	12.12643	1.716756E-02			20.4	
Endosulfan II	4.404929E+07	7.332252	12.33386	6.106009E-03			20.4	
4,4'-DDT	3.568835E+07	18.28237	12.52529	0.0130767			20.4	
Endrin aldehyde	3.019672E+07	4.666749	12.95286	7.993616E-03			20.4	
Methoxychlor	1.779768E+07	8.10226	13.24029	2.474817E-03			20.4	
Mirex	3.528171E+07	8.716491	13.403	1.647032E-02			20.4	
Endosulfan sulfate	3.317137E+07	6.262459	13.58729	1.513565E-02			20.4	
Endrin ketone	4.394762E+07	8.092502	13.981	8.894222E-03			20.4	
alpha-BHC [2C]	7.828165E+07	13.20581	7.588857	3.194446E-02			20.4	
gamma-BHC [2C]	6.871985E+07	11.39113	8.25	0.0360012			20.4	
beta-BHC [2C]	2.514164E+07	5.174674	8.446286	2.322355E-02			20.4	
delta-BHC [2C]	5.308931E+07	18.09423	8.939286	2.310905E-02			20.4	
Heptachlor [2C]	6.610146E+07	8.864959	8.988714	2.701861E-02			20.4	
Aldrin [2C]	6.765244E+07	9.460862	9.507857	1.561978E-02			20.4	
Isodrin [2C]	5.166997E+07	7.661482	10.13629	2.364944E-02			20.4	
Heptachlor epoxide [2C]	5.916389E+07	7.48889	10.43157	1.847776E-02			20.4	
Chlordane-gamma [2C]	6.192916E+07	8.452779	10.72443	1.927131E-02			20.4	
Chlordane-alpha [2C]	5.890229E+07	7.336484	10.94843	1.721687E-02			20.4	

INITIAL CALIBRATION DATA (Continued)
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612019	Instrument:	JSVGCECD2
Matrix:	Water	Calibration Date:	12/01/06 00:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.631129E+07	11.48531	11.24086	4.215165E-03			20.4	
Endosulfan I [2C]	5.389465E+07	7.35647	11.01643	1.657668E-02			20.4	
Dieldrin [2C]	5.915392E+07	8.980967	11.42657	1.075473E-02			20.4	
Endrin [2C]	5.057263E+07	8.462393	11.86814	9.576847E-03			20.4	
4,4'-DDD [2C]	4.247934E+07	11.37708	12.09171	1.445025E-02			20.4	
Endosulfan II [2C]	4.869335E+07	7.423508	12.18871	2.177538E-03			20.4	
4,4'-DDT [2C]	3.693651E+07	20.15769	12.535	1.634163E-02			20.4	
Endrin aldehyde [2C]	3.253183E+07	5.131246	12.68186	3.492462E-03			20.4	
Methoxychlor [2C]	1.7353E+07	10.24621	13.54314	1.284366E-02			20.4	
Mirex [2C]	3.796222E+07	10.58292	13.75929	8.98593E-03			20.4	
Endosulfan sulfate [2C]	3.596362E+07	5.920116	13.07857	1.077999E-02			20.4	
Endrin ketone [2C]	4.611414E+07	7.494185	13.833	1.340358E-02			20.4	
2,4,5,6-TCMX	4.591008E+07	8.852618	6.578857	2.297852E-02			20.4	
2,4,5,6-TCMX [2C]	5.127495E+07	8.052827	6.311	4.991169E-02			20.4	
DBC	3.710786E+07	8.205566	13.85357	1.282393E-03			20.4	
DBC [2C]	3.946585E+07	7.129374	13.67986	1.367179E-02			20.4	

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-07	File ID:	9L1A026-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 01:19
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	1	7.759	7.757286	0.00171		0.64	6.6
gamma-BHC	1	8.363	8.36	0.003		1.1	8.8
beta-BHC	1	8.554	8.557429	0.00343		3.0	178.8
delta-BHC	1	8.863	8.861	0.002		1.1	17.6
Heptachlor	* 1	9.167	9.196571	0.0296		0.018	2800.0
Aldrin	1	9.684	9.697286	0.0133		2.6	8225.8
Heptachlor epoxide	* 1	10.705	10.68829	0.0167		0.036	2111.1
Chlordane-alpha	* 1	11.09	11.08657	0.00343		0.14	64.7
4,4'-DDE	1	11.23	11.22971	0.00029		0.094	76.6
Dieldrin	1	11.654	11.65243	0.00157		0.32	32.8
4,4'-DDT	* 1	12.537	12.52529	0.0117		0.013	129.0
Methoxychlor	* 1	13.259	13.24029	0.0187		0.025	356.0
Endosulfan sulfate	* 1	13.574	13.58729	0.0133		0.009	277.8
Endrin ketone	* 1	13.978	13.981	0.003		0.23	5.5
alpha-BHC	* 2	7.591	7.588857	0.00214		0.68	6.6
gamma-BHC	* 2	8.252	8.25	0.002		1.2	8.8
beta-BHC	* 2	8.447	8.446286	0.000714		1.1	178.8
delta-BHC	* 2	8.94	8.939286	0.000714		1.3	17.6
Heptachlor	2	8.983	8.988714	0.00571		0.52	2800.0
Aldrin	* 2	9.513	9.507857	0.00514		0.031	8225.8
Heptachlor epoxide	2	10.431	10.43157	0.00057		0.80	2111.1
Chlordane-alpha	2	10.928	10.94843	0.0204		0.085	64.7
4,4'-DDE	* 2	11.239	11.24086	0.00186		0.17	76.6
Dieldrin	* 2	11.43	11.42657	0.00343		0.42	32.8
4,4'-DDT	2	12.542	12.535	0.007		0.030	129.0
Methoxychlor	2	13.531	13.54314	0.0121		0.11	356.0
Endosulfan sulfate	2	13.095	13.07857	0.0164		0.034	277.8
Endrin ketone	2	13.847	13.833	0.014		0.22	5.5
2,4,5,6-TCMX	* 1	6.58	6.578857	0.00114		2.69	16.4
2,4,5,6-TCMX	2	6.312	6.311	0.001		3.13	16.4
DBC	* 1	13.854	13.85357	0.00043		0.777	24.7
DBC	2	13.681	13.67986	0.00114		0.623	24.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW3S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-07RE1	File ID:	9L2A032-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/05/06 02:17
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.35	12.12643	0.224		13	11.6
4,4'-DDD	2	12.34	12.09171	0.248		14	11.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX-47-937MW5S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-02	File ID:	9L1A020-0
Sampled:	11/29/06 16:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 22:44
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
gamma-BHC	* 1	8.395	8.36	0.035		0.058	2382.8
delta-BHC	1	8.876	8.861	0.015		4.0	286.5
Heptachlor	* 1	9.229	9.196571	0.0324		0.029	6365.5
Aldrin	1	9.672	9.697286	0.0253		3.8	483.5
Chlordane-gamma	* 1	10.878	10.88429	0.00629		0.039	1056.4
Chlordane-alpha	* 1	11.075	11.08657	0.0116		0.58	36.2
4,4'-DDE	* 1	11.228	11.22971	0.00171		0.13	298.5
Dieldrin	* 1	11.654	11.65243	0.00157		0.018	3583.3
Endrin	* 1	12.005	11.99529	0.00971		0.044	1222.7
4,4'-DDD	* 1	12.117	12.12643	0.00943		0.076	539.5
Methoxychlor	* 1	13.259	13.24029	0.0187		1.1	94.0
Endosulfan sulfate	* 1	13.578	13.58729	0.00929		0.21	202.8
Endrin ketone	* 1	13.976	13.981	0.005		1.0	139.4
gamma-BHC	2	8.273	8.25	0.023		1.4	2382.8
delta-BHC	* 2	8.938	8.939286	0.00129		1.0	286.5
Heptachlor	2	8.983	8.988714	0.00571		1.9	6365.5
Aldrin	* 2	9.514	9.507857	0.00614		0.65	483.5
Chlordane-gamma	2	10.728	10.72443	0.00357		0.45	1056.4
Chlordane-alpha	2	10.947	10.94843	0.00143		0.79	36.2
4,4'-DDE	2	11.243	11.24086	0.00214		0.52	298.5
Dieldrin	2	11.442	11.42657	0.0154		0.66	3583.3
Endrin	2	11.886	11.86814	0.0179		0.58	1222.7
4,4'-DDD	2	12.066	12.09171	0.0257		0.49	539.5
Methoxychlor	2	13.527	13.54314	0.0161		2.1	94.0
Endosulfan sulfate	2	13.084	13.07857	0.00543		0.64	202.8
Endrin ketone	2	13.851	13.833	0.018		0.42	139.4
2,4,5,6-TCMX	* 1	6.581	6.578857	0.00214		0.741	17.4
2,4,5,6-TCMX	2	6.311	6.311	0		0.870	17.4
DBC	* 1	13.868	13.85357	0.0144		2.27	88.4
DBC	2	13.682	13.67986	0.00214		1.20	88.4

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX-47-EB03

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-03	File ID:	9L1A021-0
Sampled:	11/29/06 17:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 23:10
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.208	9.196571	0.0114		0.002	0.0
Dieldrin	1	11.651	11.65243	0.00143		0.026	550.0
Heptachlor	2	8.978	8.988714	0.0107		0.002	0.0
Dieldrin	* 2	11.409	11.42657	0.0176		0.004	550.0
2,4,5,6-TCMX	* 1	6.582	6.578857	0.00314		0.633	7.6
2,4,5,6-TCMX	2	6.314	6.311	0.003		0.681	7.6
DBC	* 1	13.855	13.85357	0.00143		0.753	1.3
DBC	2	13.682	13.67986	0.00214		0.763	1.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX-47-EB04

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-04	File ID:	9L1A022-0
Sampled:	11/29/06 14:00	Prepared:	12/01/06 09:15	Analyzed:	12/01/06 23:36
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.208	9.196571	0.0114		0.002	0.0
Dieldrin	1	11.651	11.65243	0.00143		0.028	833.3
Heptachlor	2	8.978	8.988714	0.0107		0.002	0.0
Dieldrin	* 2	11.411	11.42657	0.0156		0.003	833.3
2,4,5,6-TCMX	* 1	6.582	6.578857	0.00314		0.586	8.4
2,4,5,6-TCMX	2	6.314	6.311	0.003		0.635	8.4
DBC	* 1	13.855	13.85357	0.00143		0.726	1.5
DBC	2	13.682	13.67986	0.00214		0.737	1.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX-47-MW15D-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-05	File ID:	9L1A023-0
Sampled:	11/29/06 15:35	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 00:02
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
delta-BHC	* 1	8.86	8.861	0.001		0.002	100.0
delta-BHC	2	8.938	8.939286	0.00129		0.004	100.0
2,4,5,6-TCMX	* 1	6.581	6.578857	0.00214		0.691	3.4
2,4,5,6-TCMX	2	6.313	6.311	0.002		0.668	3.4
DBC	* 1	13.854	13.85357	0.00043		0.780	1.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX-47-MW15S-112906

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610310-06	File ID:	9L1A024-0
Sampled:	11/29/06 16:35	Prepared:	12/01/06 09:15	Analyzed:	12/02/06 00:28
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L01004	Sequence:	BA00086		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.232	11.22971	0.00229		0.002	0.0
4,4'-DDE	2	11.244	11.24086	0.00314		0.002	0.0
2,4,5,6-TCMX	* 1	6.581	6.578857	0.00214		0.596	2.9
2,4,5,6-TCMX	2	6.315	6.311	0.004		0.613	2.9
DBC	* 1	13.853	13.85357	0.00057		0.641	1.7
DBC	2	13.68	13.67986	0.00014		0.652	1.7

* Column used for quantitation

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00086	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Instrument Blank (BA00086-IBL1)			Lab File ID: 9L1A001-0		Analyzed: 12/01/06 10:32			
2,4,5,6-TCMX			25 - 140	6.58	6.578857	0.0011	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.31	6.311	-0.0010	+/-0.3	
DBC			30 - 135	13.858	13.85357	0.0044	+/-0.3	
DBC [2C]			30 - 135	13.683	13.67986	0.0031	+/-0.3	
Calibration Check (BA00086-CCV1)			Lab File ID: 9L1A014-0		Analyzed: 12/01/06 20:08			
2,4,5,6-TCMX	0.100	94	85 - 115	6.58	6.578857	0.0011	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	93	85 - 115	6.313	6.311	0.0020	+/-0.3	
DBC	0.100	94	85 - 115	13.855	13.85357	0.0014	+/-0.3	
DBC [2C]	0.100	93	85 - 115	13.682	13.67986	0.0021	+/-0.3	
Blank (6L01004-BLK1)			Lab File ID: 9L1A015-0		Analyzed: 12/01/06 20:34			
2,4,5,6-TCMX	1.00	76	25 - 140	6.581	6.578857	0.0021	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	76	25 - 140	6.314	6.311	0.0030	+/-0.3	
DBC	1.00	88	30 - 135	13.854	13.85357	0.0004	+/-0.3	
DBC [2C]	1.00	87	30 - 135	13.681	13.67986	0.0011	+/-0.3	
LCS (6L01004-BS1)			Lab File ID: 9L1A016-0		Analyzed: 12/01/06 21:00			
2,4,5,6-TCMX	1.00	70	25 - 140	6.58	6.578857	0.0011	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	70	25 - 140	6.312	6.311	0.0010	+/-0.3	
DBC	1.00	78	30 - 135	13.854	13.85357	0.0004	+/-0.3	
DBC [2C]	1.00	78	30 - 135	13.68	13.67986	0.0001	+/-0.3	
Matrix Spike (6L01004-MS1)			Lab File ID: 9L1A017-0		Analyzed: 12/01/06 21:26			
2,4,5,6-TCMX	1.00	68	25 - 140	6.579	6.578857	0.0001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	65	25 - 140	6.312	6.311	0.0010	+/-0.3	
DBC	1.00	88	30 - 135	13.851	13.85357	-0.0026	+/-0.3	
DBC [2C]	1.00	78	30 - 135	13.679	13.67986	-0.0009	+/-0.3	
Matrix Spike Dup (6L01004-MSD1)			Lab File ID: 9L1A018-0		Analyzed: 12/01/06 21:52			
2,4,5,6-TCMX	1.00	68	25 - 140	6.581	6.578857	0.0021	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	66	25 - 140	6.314	6.311	0.0030	+/-0.3	
DBC	1.00	86	30 - 135	13.854	13.85357	0.0004	+/-0.3	
DBC [2C]	1.00	78	30 - 135	13.681	13.67986	0.0011	+/-0.3	
JAX-47-937MW1S-112906 (B610310-01)			Lab File ID: 9L1A019-0		Analyzed: 12/01/06 22:18			
2,4,5,6-TCMX	1.00	70	25 - 140	6.582	6.578857	0.0031	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	68	25 - 140	6.314	6.311	0.0030	+/-0.3	
DBC	1.00	90	30 - 135	13.854	13.85357	0.0004	+/-0.3	
DBC [2C]	1.00	82	30 - 135	13.681	13.67986	0.0011	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00086	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX-47-937MW5S-112906 (B610310-02)			Lab File ID: 9L1A020-0		Analyzed: 12/01/06 22:44			
2,4,5,6-TCMX	1.00	74	25 - 140	6.581	6.578857	0.0021	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	87	25 - 140	6.311	6.311	0.0000	+/-0.3	
DBC	1.00	227	30 - 135	13.868	13.85357	0.0144	+/-0.3	*
DBC [2C]	1.00	120	30 - 135	13.682	13.67986	0.0021	+/-0.3	
JAX-47-EB03 (B610310-03)			Lab File ID: 9L1A021-0		Analyzed: 12/01/06 23:10			
2,4,5,6-TCMX	1.00	63	25 - 140	6.582	6.578857	0.0031	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	68	25 - 140	6.314	6.311	0.0030	+/-0.3	
DBC	1.00	75	30 - 135	13.855	13.85357	0.0014	+/-0.3	
DBC [2C]	1.00	76	30 - 135	13.682	13.67986	0.0021	+/-0.3	
JAX-47-EB04 (B610310-04)			Lab File ID: 9L1A022-0		Analyzed: 12/01/06 23:36			
2,4,5,6-TCMX	1.00	59	25 - 140	6.582	6.578857	0.0031	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	64	25 - 140	6.314	6.311	0.0030	+/-0.3	
DBC	1.00	73	30 - 135	13.855	13.85357	0.0014	+/-0.3	
DBC [2C]	1.00	74	30 - 135	13.682	13.67986	0.0021	+/-0.3	
JAX-47-MW15D-112906 (B610310-05)			Lab File ID: 9L1A023-0		Analyzed: 12/02/06 00:02			
2,4,5,6-TCMX	1.00	69	25 - 140	6.581	6.578857	0.0021	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	67	25 - 140	6.313	6.311	0.0020	+/-0.3	
DBC	1.00	78	30 - 135	13.854	13.85357	0.0004	+/-0.3	
JAX-47-MW15S-112906 (B610310-06)			Lab File ID: 9L1A024-0		Analyzed: 12/02/06 00:28			
2,4,5,6-TCMX	1.00	60	25 - 140	6.581	6.578857	0.0021	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	61	25 - 140	6.315	6.311	0.0040	+/-0.3	
DBC	1.00	64	30 - 135	13.853	13.85357	-0.0006	+/-0.3	
DBC [2C]	1.00	65	30 - 135	13.68	13.67986	0.0001	+/-0.3	
Calibration Check (BA00086-CCV2)			Lab File ID: 9L1A025-0		Analyzed: 12/02/06 00:53			
2,4,5,6-TCMX	0.100	90	85 - 115	6.581	6.578857	0.0021	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	91	85 - 115	6.314	6.311	0.0030	+/-0.3	
DBC	0.100	90	85 - 115	13.855	13.85357	0.0014	+/-0.3	
DBC [2C]	0.100	90	85 - 115	13.682	13.67986	0.0021	+/-0.3	
JAX47-937MW3S-112906 (B610310-07)			Lab File ID: 9L1A026-0		Analyzed: 12/02/06 01:19			
2,4,5,6-TCMX	1.00	269	25 - 140	6.58	6.578857	0.0011	+/-0.3	*
2,4,5,6-TCMX [2C]	1.00	313	25 - 140	6.312	6.311	0.0010	+/-0.3	*
DBC	1.00	78	30 - 135	13.854	13.85357	0.0004	+/-0.3	
DBC [2C]	1.00	62	30 - 135	13.681	13.67986	0.0011	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00086	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00086-CCV3)			Lab File ID: 9L1A027-0		Analyzed: 12/02/06 01:45			
2,4,5,6-TCMX	0.100	93	85 - 115	6.58	6.578857	0.0011	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	94	85 - 115	6.313	6.311	0.0020	+/-0.3	
DBC	0.100	93	85 - 115	13.855	13.85357	0.0014	+/-0.3	
DBC [2C]	0.100	95	85 - 115	13.681	13.67986	0.0011	+/-0.3	
Instrument Blank (BA00086-IBL2)			Lab File ID: 9L2A001-0		Analyzed: 12/02/06 20:24			
2,4,5,6-TCMX			25 - 140	6.833	6.578857	0.2541	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.567	6.311	0.2560	+/-0.3	
DBC			30 - 135	14.11	13.85357	0.2564	+/-0.3	
DBC [2C]			30 - 135	13.914	13.67986	0.2341	+/-0.3	
Calibration Check (BA00086-CCV4)			Lab File ID: 9L2A030-0		Analyzed: 12/05/06 01:26			
2,4,5,6-TCMX	0.100	97	85 - 115	6.581	6.578857	0.0021	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	94	85 - 115	6.314	6.311	0.0030	+/-0.3	
DBC	0.100	97	85 - 115	13.854	13.85357	0.0004	+/-0.3	
DBC [2C]	0.100	92	85 - 115	13.682	13.67986	0.0021	+/-0.3	
Calibration Check (BA00086-CCV5)			Lab File ID: 9L2A033-0		Analyzed: 12/05/06 02:43			
2,4,5,6-TCMX	0.100	103	85 - 115	6.582	6.578857	0.0031	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	99	85 - 115	6.315	6.311	0.0040	+/-0.3	
DBC	0.100	105	85 - 115	13.855	13.85357	0.0014	+/-0.3	
DBC [2C]	0.100	100	85 - 115	13.683	13.67986	0.0031	+/-0.3	

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-009

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.001	0.05	ug/L
gamma-BHC	0.002	0.05	ug/L
beta-BHC	0.002	0.05	ug/L
delta-BHC	0.001	0.05	ug/L
Heptachlor	0.001	0.05	ug/L
Aldrin	0.002	0.05	ug/L
Heptachlor epoxide	0.001	0.05	ug/L
Chlordane-gamma	0.001	0.05	ug/L
Chlordane-alpha	0.001	0.05	ug/L
4,4'-DDE	0.002	0.05	ug/L
Endosulfan I	0.002	0.05	ug/L
Dieldrin	0.0008	0.05	ug/L
Endrin	0.002	0.05	ug/L
4,4'-DDD	0.0004	0.05	ug/L
Endosulfan II	0.002	0.05	ug/L
4,4'-DDT	0.002	0.05	ug/L
Endrin aldehyde	0.009	0.05	ug/L
Methoxychlor	0.003	0.05	ug/L
Endosulfan sulfate	0.002	0.05	ug/L
Endrin ketone	0.003	0.05	ug/L
Toxaphene	0.05	0.05	ug/L
alpha-BHC [2C]	0.001	0.05	ug/L
gamma-BHC [2C]	0.002	0.05	ug/L
beta-BHC [2C]	0.002	0.05	ug/L
delta-BHC [2C]	0.001	0.05	ug/L
Heptachlor [2C]	0.001	0.05	ug/L
Aldrin [2C]	0.002	0.05	ug/L
Heptachlor epoxide [2C]	0.001	0.05	ug/L
Chlordane-gamma [2C]	0.001	0.05	ug/L
Chlordane-alpha [2C]	0.001	0.05	ug/L
4,4'-DDE [2C]	0.002	0.05	ug/L
Endosulfan I [2C]	0.002	0.05	ug/L
Dieldrin [2C]	0.0008	0.05	ug/L
Endrin [2C]	0.002	0.05	ug/L
4,4'-DDD [2C]	0.0004	0.05	ug/L
Endosulfan II [2C]	0.002	0.05	ug/L
4,4'-DDT [2C]	0.002	0.05	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-009

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.009	0.05	ug/L
Methoxychlor [2C]	0.003	0.05	ug/L
Endosulfan sulfate [2C]	0.002	0.05	ug/L
Endrin ketone [2C]	0.003	0.05	ug/L
Toxaphene [2C]	0.05	0.05	ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L01004	Laboratory ID:	6L01004-MS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.00400	0.682	68	60 - 130
gamma-BHC	1.00	0.00200	0.692	69	25 - 135
beta-BHC	1.00	ND	0.725	72	65 - 125
delta-BHC	1.00	0.0200	0.809	79	45 - 135
Heptachlor	1.00	0.0130	0.685	67	40 - 130
Aldrin	1.00	ND	0.915	92	25 - 140
Heptachlor epoxide	1.00	ND	0.705	70	60 - 130
Chlordane-gamma	1.00	ND	0.696	70	60 - 125
Chlordane-alpha	1.00	0.00500	0.699	69	65 - 125
4,4'-DDE	1.00	ND	0.724	72	35 - 140
Endosulfan I	1.00	ND	0.691	69	50 - 110
Dieldrin	1.00	0.00300	0.721	72	60 - 130
Endrin	1.00	0.00200	0.745	74	55 - 135
4,4'-DDD	1.00	ND	0.772	77	25 - 150
Endosulfan II	1.00	ND	0.754	75	30 - 130
4,4'-DDT	1.00	ND	0.814	81	45 - 140
Endrin aldehyde	1.00	ND	0.866	87	55 - 135
Methoxychlor	1.00	0.0750	1.04	96	55 - 150
Endosulfan sulfate	1.00	0.0720	0.919	85	55 - 135
Endrin ketone	1.00	ND	0.838	84	75 - 125
alpha-BHC [2C]	1.00	0.00200	0.665	66	60 - 130
gamma-BHC [2C]	1.00	ND	0.665	66	25 - 135
beta-BHC [2C]	1.00	ND	0.718	72	65 - 125
delta-BHC [2C]	1.00	0.0360	0.793	76	45 - 135
Heptachlor [2C]	1.00	0.0660	0.728	66	40 - 130
Aldrin [2C]	1.00	ND	0.626	63	25 - 140
Heptachlor epoxide [2C]	1.00	ND	0.728	73	60 - 130
Chlordane-gamma [2C]	1.00	ND	0.723	72	60 - 125
Chlordane-alpha [2C]	1.00	0.0210	0.702	68	65 - 125
4,4'-DDE [2C]	1.00	ND	0.699	70	35 - 140
Endosulfan I [2C]	1.00	ND	0.711	71	50 - 110
Dieldrin [2C]	1.00	0.0110	0.720	71	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L01004
Laboratory ID: 6L01004-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	0.0100	0.753	74	55 - 135
4,4'-DDD [2C]	1.00	ND	0.741	74	25 - 150
Endosulfan II [2C]	1.00	ND	0.784	78	30 - 130
4,4'-DDT [2C]	1.00	ND	0.851	85	45 - 140
Endrin aldehyde [2C]	1.00	ND	0.927	93	55 - 135
Methoxychlor [2C]	1.00	0.0190	0.893	87	55 - 150
Endosulfan sulfate [2C]	1.00	0.00400	0.830	83	55 - 135
Endrin ketone [2C]	1.00	ND	0.738	74 *	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	0.727	72	6	30	60 - 130
gamma-BHC	1.00	0.738	74	6	30	25 - 135
beta-BHC	1.00	0.772	77	6	30	65 - 125
delta-BHC	1.00	0.852	83	5	30	45 - 135
Heptachlor	1.00	0.728	72	6	30	40 - 130
Aldrin	1.00	0.919	92	0.4	30	25 - 140
Heptachlor epoxide	1.00	0.745	74	6	30	60 - 130
Chlordane-gamma	1.00	0.759	76	9	30	60 - 125
Chlordane-alpha	1.00	0.736	73	5	30	65 - 125
4,4'-DDE	1.00	0.770	77	6	30	35 - 140
Endosulfan I	1.00	0.731	73	6	30	50 - 110
Dieldrin	1.00	0.766	76	6	30	60 - 130
Endrin	1.00	0.791	79	6	30	55 - 135
4,4'-DDD	1.00	0.825	82	7	30	25 - 150
Endosulfan II	1.00	0.813	81	8	30	30 - 130
4,4'-DDT	1.00	0.878	88	8	30	45 - 140
Endrin aldehyde	1.00	0.901	90	4	30	55 - 135
Methoxychlor	1.00	1.06	98	2	30	55 - 150
Endosulfan sulfate	1.00	0.974	90	6	30	55 - 135
Endrin ketone	1.00	0.871	87	4	30	75 - 125
alpha-BHC [2C]	1.00	0.718	72	8	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L01004	Laboratory ID:	6L01004-MSD1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.716	72	7	30	25 - 135
beta-BHC [2C]	1.00	0.765	76	6	30	65 - 125
delta-BHC [2C]	1.00	0.842	81	6	30	45 - 135
Heptachlor [2C]	1.00	0.764	70	5	30	40 - 130
Aldrin [2C]	1.00	0.673	67	7	30	25 - 140
Heptachlor epoxide [2C]	1.00	0.765	76	5	30	60 - 130
Chlordane-gamma [2C]	1.00	0.763	76	5	30	60 - 125
Chlordane-alpha [2C]	1.00	0.743	72	6	30	65 - 125
4,4'-DDE [2C]	1.00	0.740	74	6	30	35 - 140
Endosulfan I [2C]	1.00	0.753	75	6	30	50 - 110
Dieldrin [2C]	1.00	0.761	75	6	30	60 - 130
Endrin [2C]	1.00	0.797	79	6	30	55 - 135
4,4'-DDD [2C]	1.00	0.790	79	6	30	25 - 150
Endosulfan II [2C]	1.00	0.820	82	4	30	30 - 130
4,4'-DDT [2C]	1.00	0.901	90	6	30	45 - 140
Endrin aldehyde [2C]	1.00	0.951	95	3	30	55 - 135
Methoxychlor [2C]	1.00	0.942	92	5	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.872	87	5	30	55 - 135
Endrin ketone [2C]	1.00	0.790	79	7	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**FEBRUARY 28, 2007**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
NAS JACKSONVILLE – CTO 047
SDG – BR006-009

SAMPLES: 7/Aqueous/

JAX47-937MW1S-112906	JAX47-937MW3S-112906
JAX47-937MW5S-112906	JAX-47-EB03
JAX-47-EB04	JAX-47-MW15D-112906
JAX-47-MW15S-112906	

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-009, consists of five aqueous environmental samples and two field quality control blanks.

All samples were analyzed for total arsenic and three samples were also analyzed for dissolved arsenic. The samples were collected by Tetra Tech NUS on November 29, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using SW-846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Result
* • Matrix Spike/Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
• Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Notes

Originally, the laboratory did not report the linear calibration range of the inductively coupled plasma (ICP) atomic emission spectrometer (AES). After being contacted by the data reviewer, the laboratory provided the linear calibration range of the instrument.

The non-detected arsenic result for sample JAX-47-MW15D-112906 was not reported down to both the method detection limit (MDL) and the method reporting limit (MRL) on Form I report as requested in the laboratory scope-of-work and required by the state of Florida. The non-detected result was reported down to the MRL on Form I report. The laboratory correctly reported the non-detected arsenic result down to the MDL in the electronic data deliverable (EDD).

The arsenic result on the laboratory method blank form was not reported down to the MDL.

The laboratory only reported to one significant figure for all non-detected results.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", July 2002, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-937MW1S-112906
samp_date	11/29/2006
lab_id	B610310-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	41		

nsample	JAX47-937MW3S-112906
samp_date	11/29/2006
lab_id	B610310-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	23000		

nsample	JAX-47-937MW5S-112906
samp_date	11/29/2006
lab_id	B610310-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2310		

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-EB03	nsample	JAX-47-EB04	nsample	JAX-47-MW15D-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-03	lab_id	B610310-04	lab_id	B610310-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: M

nsample	JAX-47-MW15S-112906
samp_date	11/29/2006
lab_id	B610310-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.2		

PROJ_NO: 00497

SDG: BR006-009 MEDIA: WATER DATA FRACTION: MF

nsample	JAX-47-937MW1S-112906	nsample	JAX47-937MW3S-112906	nsample	JAX-47-937MW5S-112906
samp_date	11/29/2006	samp_date	11/29/2006	samp_date	11/29/2006
lab_id	B610310-01	lab_id	B610310-07	lab_id	B610310-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	26		

Parameter	Result	Val Qual	Qual Code
ARSENIC	17500		

Parameter	Result	Val Qual	Qual Code
ARSENIC	1450		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610310-01
File ID: 120606a-016
Sampled: 11/29/06 13:48
Prepared: 12/01/06 10:43
Analyzed: 12/06/06 11:29
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L01009
Sequence: BA00081
Calibration: 0612003
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	41.0	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-937MW3S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610310-07
File ID: 120606a-027
Sampled: 11/29/06 16:00
Prepared: 12/01/06 10:43
Analyzed: 12/06/06 12:47
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L01009
Sequence: BA00081
Calibration: 0612003
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	23000	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX-47-937MW5S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610310-02
File ID: 120606a-018
Sampled: 11/29/06 16:00
Prepared: 12/01/06 10:43
Analyzed: 12/06/06 11:43
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L01009
Sequence: BA00081
Calibration: 0612003
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	2310	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX-47-EB03

Laboratory: ENCO Jacksonville | SDG: BR006-009

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610310-03 | File ID: 120606a-023

Sampled: 11/29/06 17:00 | Prepared: 12/01/06 10:43 | Analyzed: 12/06/06 12:19

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L01009 | Sequence: BA00081 | Calibration: 0612003 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX-47-EB04

Laboratory: ENCO Jacksonville | SDG: BR006-009

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610310-04 | File ID: 120606a-024

Sampled: 11/29/06 14:00 | Prepared: 12/01/06 10:43 | Analyzed: 12/06/06 12:26

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L01009 | Sequence: BA00081 | Calibration: 0612003 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX-47-MW15D-112906

Laboratory: ENCO Jacksonville | SDG: BR006-009

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610310-05 | File ID: 120606a-025

Sampled: 11/29/06 15:35 | Prepared: 12/01/06 10:43 | Analyzed: 12/06/06 12:34

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L01009 | Sequence: BA00081 | Calibration: 0612003 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX-47-MW15S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610310-06
File ID: 120606a-026
Sampled: 11/29/06 16:35
Prepared: 12/01/06 10:43
Analyzed: 12/06/06 12:41
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L01009
Sequence: BA00081
Calibration: 0612003
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.2	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX-47-937MW1S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610310-01
File ID: 120606a-017
Sampled: 11/29/06 13:48
Prepared: 12/01/06 10:43
Analyzed: 12/06/06 11:36
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L01009
Sequence: BA00081
Calibration: 0612003
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	26	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-937MW3S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610310-07
File ID: 120606a-028
Sampled: 11/29/06 16:00
Prepared: 12/01/06 10:43
Analyzed: 12/06/06 12:54
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L01009
Sequence: BA00081
Calibration: 0612003
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	17500	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX-47-937MW5S-112906

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610310-02
File ID: 120606a-019
Sampled: 11/29/06 16:00
Prepared: 12/01/06 10:43
Analyzed: 12/06/06 11:50
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L01009
Sequence: BA00081
Calibration: 0612003
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	1450	1		EPA 6010B

APPENDIX C
SUPPORT DOCUMENTATION

11/28/2006	JAX47-SB097-01-112806	15:10	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 8081A**	JAX47-SB097	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/28/2006	JAX47-SB097-06-112806	15:15	**SW-846 6010B or 6020**	JAX47-SB097	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8260B Extended**	JAX-47-937MW1S	GW	TCL VOCs	4°C/HCL	9	Glass	40ml vials	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 8081A and 8270C Extended**	JAX-47-937MW1S	GW	TCL Pesticides and SVOCs	4°C	6	Glass	1L Amber	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020**	JAX-47-937MW1S	GW	Arsenic	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW1S-112906	13:48	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW1S	GW	Arsenic (filtered)	4° C/HNO3	3	Plastic	250ml PE	Run MS/MSD
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020**	JAX-47-937MW5S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8081A and 8270C Extended**	JAX-47-937MW5S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 8260B Extended**	JAX-47-937MW5S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-937MW5S-112906	16:00	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW5S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-EB03	17:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB03	17:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 8260B Extended**	QC	AQ	TCL VOCs	4°C/HCL	3	Glass	40ml vials	Equipment Blank
11/29/2006	JAX-47-EB04	14:00	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	Equipment Blank
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8260B Extended**	JAX-47-MW15D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 6010B or 6020**	JAX-47-MW15D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15D-112906	15:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 6010B or 6020**	JAX-47-MW15S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8081A and 8270C Extended**	JAX-47-MW15S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX-47-MW15S-112906	16:35	**SW-846 8260B Extended**	JAX-47-MW15S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020**	JAX-47-937MW3S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	

11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8081A and 8270C Extended**	JAX-47-937MW3S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 8260B Extended**	JAX-47-937MW3S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
11/29/2006	JAX47-937MW3S-112906	14:15	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW3S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-01-112906	13:32	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 6010B or 6020**	JAX47-SB084	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB084-05-112906	13:44	**SW-846 8081A**	JAX47-SB084	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-01-112906	13:55	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 6010B or 6020**	JAX47-SB085	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB085-05-112906	14:02	**SW-846 8081A**	JAX47-SB085	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-01-112906	09:43	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 8081A**	JAX47-SB086	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB086-06-112906	09:50	**SW-846 6010B or 6020**	JAX47-SB086	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-01-112906	09:30	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 6010B or 6020**	JAX47-SB092	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB092-06-112906	09:36	**SW-846 8081A**	JAX47-SB092	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-01-112906	09:12	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 6010B or 6020**	JAX47-SB093	SO	Arsenic	4°C	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB093-06-112906	09:21	**SW-846 8081A**	JAX47-SB093	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/29/2006	JAX47-SB101-01-112906	14:24	**SW-846 6010B or 6020**	JAX47-SB101	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	

HOLDTIME

SDG BR006-009

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	JAX47-937MW3S-112906	B610310-07	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
M	UG/L	JAX-47-937MW5S-112906	B610310-02	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
M	UG/L	JAX-47-EB03	B610310-03	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
M	UG/L	JAX-47-EB04	B610310-04	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
M	UG/L	JAX-47-MW15D-112906	B610310-05	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
M	UG/L	JAX-47-MW15S-112906	B610310-06	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
M	UG/L	JAX-47-937MW1S-112906	B610310-01	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
MF	UG/L	JAX-47-937MW1S-112906	B610310-01	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
MF	UG/L	JAX47-937MW3S-112906	B610310-07	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
MF	UG/L	JAX-47-937MW5S-112906	B610310-02	NM	11/29/2006	12/1/2006	12/6/2006	2	5	7
OS	%	JAX-47-937MW5S-112906	B610310-02	NM	11/29/2006	12/1/2006	12/1/2006	2	0	2
OS	%	JAX-47-MW15S-112906	B610310-06	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	%	JAX-47-MW15S-112906	B610310-06	NM	11/29/2006	12/1/2006	12/2/2006	2	1	3
OS	%	JAX-47-MW15D-112906	B610310-05	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	%	JAX-47-MW15D-112906	B610310-05	NM	11/29/2006	12/1/2006	12/2/2006	2	1	3

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	JAX-47-EB04	B610310-04	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	%	JAX-47-EB04	B610310-04	NM	11/29/2006	12/1/2006	12/1/2006	2	0	2
OS	%	JAX-47-EB03	B610310-03	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	%	JAX-47-937MW5S-112906	B610310-02	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	%	JAX47-937MW3S-112906	B610310-07	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	%	JAX47-937MW3S-112906	B610310-07	NM	11/29/2006	12/1/2006	12/2/2006	2	1	3
OS	%	JAX-47-937MW1S-112906	B610310-01	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	%	JAX-47-937MW1S-112906	B610310-01	NM	11/29/2006	12/1/2006	12/1/2006	2	0	2
OS	%	JAX-47-EB03	B610310-03	NM	11/29/2006	12/1/2006	12/1/2006	2	0	2
OS	UG/L	JAX-47-937MW5S-112906	B610310-02	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	UG/L	JAX-47-937MW1S-112906	B610310-01	NM	11/29/2006	12/1/2006	12/1/2006	2	0	2
OS	UG/L	JAX-47-937MW1S-112906	B610310-01	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	UG/L	JAX47-937MW3S-112906	B610310-07	NM	11/29/2006	12/1/2006	12/2/2006	2	1	3
OS	UG/L	JAX47-937MW3S-112906	B610310-07	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	UG/L	JAX47-937MW3S-112906	B610310-07RE1	NM	11/29/2006	12/1/2006	12/5/2006	2	4	6
OS	UG/L	JAX47-937MW3S-112906	B610310-07RE1	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	UG/L	JAX-47-EB03	B610310-03	NM	11/29/2006	12/1/2006	12/1/2006	2	0	2
OS	UG/L	JAX-47-EB03	B610310-03	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	JAX-47-EB04	B610310-04	NM	11/29/2006	12/1/2006	12/1/2006	2	0	2
OS	UG/L	JAX-47-EB04	B610310-04	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	UG/L	JAX-47-MW15D-112906	B610310-05	NM	11/29/2006	12/1/2006	12/2/2006	2	1	3
OS	UG/L	JAX-47-MW15D-112906	B610310-05	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	UG/L	JAX-47-MW15S-112906	B610310-06	NM	11/29/2006	12/1/2006	12/2/2006	2	1	3
OS	UG/L	JAX-47-MW15S-112906	B610310-06	NM	11/29/2006	12/4/2006	12/5/2006	5	1	6
OS	UG/L	JAX47-937MW3S-112906	B610310-07RE2	NM	11/29/2006	12/4/2006	12/6/2006	5	2	7
OS	UG/L	JAX-47-937MW5S-112906	B610310-02	NM	11/29/2006	12/1/2006	12/1/2006	2	0	2
OV	%	JAX-47-EB03	B610310-03	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	%	Trip Blank #4	B610310-09	NM	11/30/2006	12/7/2006	12/7/2006	7	0	7
OV	%	Trip Blank #3	B610310-08	NM	11/30/2006	12/7/2006	12/7/2006	7	0	7
OV	%	JAX-47-MW15S-112906	B610310-06	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	%	JAX-47-EB04	B610310-04	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	%	JAX-47-937MW5S-112906	B610310-02	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	%	JAX47-937MW3S-112906	B610310-07RE1	NM	11/29/2006	12/7/2006	12/8/2006	8	1	9
OV	%	JAX47-937MW3S-112906	B610310-07	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	%	JAX-47-937MW1S-112906	B610310-01	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	%	JAX-47-937MW5S-112906	B610310-02RE1	NM	11/29/2006	12/7/2006	12/8/2006	8	1	9

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	JAX-47-MW15D-112906	B610310-05	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	UG/L	JAX47-937MW3S-112906	B610310-07	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	UG/L	Trip Blank #3	B610310-08	NM	11/30/2006	12/7/2006	12/7/2006	7	0	7
OV	UG/L	JAX-47-MW15S-112906	B610310-06	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	UG/L	JAX-47-MW15D-112906	B610310-05	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	UG/L	JAX-47-EB04	B610310-04	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	UG/L	JAX-47-EB03	B610310-03	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	UG/L	JAX-47-937MW5S-112906	B610310-02RE1	NM	11/29/2006	12/7/2006	12/8/2006	8	1	9
OV	UG/L	JAX47-937MW3S-112906	B610310-07RE1	NM	11/29/2006	12/7/2006	12/8/2006	8	1	9
OV	UG/L	JAX-47-937MW1S-112906	B610310-01	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8
OV	UG/L	Trip Blank #4	B610310-09	NM	11/30/2006	12/7/2006	12/7/2006	7	0	7
OV	UG/L	JAX-47-937MW5S-112906	B610310-02	NM	11/29/2006	12/7/2006	12/7/2006	8	0	8

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-009

Lab Sample ID	Client Sample ID
B610310-01	JAX-47-937MW1S-112906
B610310-02	JAX-47-937MW5S-112906
B610310-03	JAX-47-EB03
B610310-04	JAX-47-EB04
B610310-05	JAX-47-MW15D-112906
B610310-06	JAX-47-MW15S-112906
B610310-07	JAX47-937MW3S-112906
B610310-08	Trip Blank #3
B610310-09	Trip Blank #4

Volatiles

Method: The samples were analyzed by USEPA Method 8260B (VOA vial field sampling followed by purge and trap then capillary column GC/MS). Water samples were received into the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Trip Blank #3 and Trip Blank #4 were received for analysis but not noted on the chain of custody. Samples were analyzed per client request.
- The following samples reported positive results for acetone which is one of the materials referred to as "common laboratory solvents": JAX-47-937MW5S-112906, JAX-47-EB03, JAX-47-EB04, JAX47-937MW3S-112906 and Trip Blank #4. Their presence is suspected as being due to laboratory contamination. The associated method blank and matrix spike results for this component indicates that this contamination is of a sporadic and irregular nature, and may not be actually present in the samples. The Florida Department of Environmental Protection forbids the use of "blank subtraction" on such results, and requires that all positive data determined be reported as analyzed, with appropriate data qualifiers if necessary.
- JAX-47-EB03 and JAX-47-EB04 are equipment blanks which took positive results for toluene. Samples were re-analyzed outside method specified hold time with results confirming the original run. JAX-47-EB03 confirmation analysis resulted in 11.3ug/L for toluene and JAX-47-EB04 resulted in 11.5ug/L for toluene.
- Matrix Spike and Matrix Spike Duplicate failed DoD QSM specified control limits for dichlorodifluoromethane, chloromethane, bromomethane, isopropylbenzene, 1,2 dichlorobenzene, and 1,4-Dichlorobenzene. Samples were accepted based on the Laboratory Control Standard and based on passing %RPD values.
- The Laboratory Control Standard was outside the DoD QSM specified control limits. Upon re-analysis within a 24 hour period the Laboratory Control Standard passed the specified control limits for all compounds except chloromethane. The results of this compound should be considered estimated and bias high. Samples in the batch did not have any results for chloromethane so the data was accepted.
- Continuing Calibration Standard were outside established limits for several compounds however CCC and SPCC compounds passed.

Metals

Method: The samples were extracted by USEPA Method 3050b and analyzed by EPA Method 6010b. Water samples were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3545/8270c. Water samples were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Matrix Spike and Matrix Spike Duplicate were outside the established control limits. Data was accepted based on Laboratory Control Standard and %RPD recovery passing.
- Laboratory Control Standard was above the control limits for several compounds. Samples were clean for those compounds and data was accepted.
- Continuing Calibration Standard were outside established limits for several compounds however CCC and SPCC compounds passed.

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3545/8081a. Water samples were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- DBC surrogate recovery was outside the DoD QSM control limit for JAX-47-937MW5S-112906 due to matrix interference, however the recovery passed using Column B with a result of 120%.
- TCMX surrogate recovery was outside the established control limit on both columns due to sample matrix.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:
Environmental Conservation Laboratories, Inc.

Christina Tompkins
Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.10 10:37:26 -05'00'

Christina M. Tompkins
Project Manager

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-009

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX-47-937MW1S-112906	B610310-01
JAX-47-937MW5S-112906	B610310-02
JAX-47-EB03	B610310-03
JAX-47-EB04	B610310-04
JAX-47-MW15D-112906	B610310-05
JAX-47-MW15S-112906	B610310-06
JAX47-937MW3S-112906	B610310-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.10 10:39:04 -05'00'

Name: Christina Tompkins

Date: 01/04/07

Title: Project Manager

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612003
Control Limt: +/- 10.00%
Sequence: BA00081

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00081-ICV1	Arsenic	0.500	0.505	101	mg/L	EPA 6010B
BA00081-CCV1	Arsenic	0.500	0.505	101	mg/L	EPA 6010B
BA00081-CCV2	Arsenic	0.500	0.489	98	mg/L	EPA 6010B

* Values outside of QC limits

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00081
Calibration: 0612003

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00081-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
6L01009-BLK1	Arsenic	1.51	10.0	ug/L		EPA 6010B
BA00081-CCB1	Arsenic	0.00109	0.01	mg/L		EPA 6010B
BA00081-CCB2	Arsenic	0.00243	0.01	mg/L		EPA 6010B

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L01009-BLK1	File ID:	120606a-010
Prepared:	12/01/06 10:43	Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL
Analyzed:	12/06/06 10:47	Instrument:	JMICP1		
Batch:	6L01009	Sequence:	BA00081	Calibration:	0612003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	10.0	U

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-009

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Instrument ID: JMICP1

Calibration: 0612003

Sequence: BA00081

Lab Sample ID	Analyte	True	Found	%R	Units
BA00081-IFA1	Arsenic	1.00	1.02	102	mg/L
	Arsenic	1.00	1.02	102	mg/L

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L01009	Laboratory ID:	6L01009-MS1
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Arsenic	1000	41.0	1050	101	80-120

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	1000	1020	98	3	12	80-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L01009	Laboratory ID:	6L01009-MS2
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Arsenic	1000	41.0	1040	100	80-120

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	1000	1020	98	2	12	80-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L01009	Laboratory ID:	6L01009-BS1
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Arsenic	1000	1010	101	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-009

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	4	10.0	ug/L

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L01009 Batch Matrix: Water Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L01009-BLK1	120606a-010	12/01/06 10:43	2 MS-2 MSD
LCS	6L01009-BS1	120606a-011	12/01/06 10:43	2 MS-2 MSD
JAX-47-937MW1S-112906	6L01009-MS1	120606a-012	12/01/06 10:43	2 MS-2 MSD
JAX-47-937MW1S-112906	6L01009-MS2	120606a-014	12/01/06 10:43	
JAX-47-937MW1S-112906	6L01009-MSD1	120606a-013	12/01/06 10:43	2 MS-2 MSD
JAX-47-937MW1S-112906	6L01009-MSD2	120606a-015	12/01/06 10:43	
JAX-47-937MW1S-112906	B610310-01	120606a-016	12/01/06 10:43	Use this sample as your MS/MSD
JAX-47-937MW5S-112906	B610310-02	120606a-018	12/01/06 10:43	
JAX-47-EB03	B610310-03	120606a-023	12/01/06 10:43	
JAX-47-EB04	B610310-04	120606a-024	12/01/06 10:43	
JAX-47-MW15D-112906	B610310-05	120606a-025	12/01/06 10:43	
JAX-47-MW15S-112906	B610310-06	120606a-026	12/01/06 10:43	
JAX47-937MW3S-112906	B610310-07	120606a-027	12/01/06 10:43	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00081	Instrument:	JMICP1
Matrix:	Water	Calibration:	0612003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00081-ICB1	120606a-001	12/06/06 09:45
Cal Standard	BA00081-CAL1	120606a-002	12/06/06 09:52
Instrument Blank	BA00081-IBL1	120606a-003	12/06/06 09:59
Low Cal Check	BA00081-LCV1	120606a-004	12/06/06 10:06
Secondary Cal Check	BA00081-SCV1	120606a-005	12/06/06 10:13
Initial Cal Check	BA00081-ICV1	120606a-006	12/06/06 10:20
Interference Check A	BA00081-IFA1	120606a-008	12/06/06 10:33
Blank	6L01009-BLK1	120606a-010	12/06/06 10:47
LCS	6L01009-BS1	120606a-011	12/06/06 10:54
JAX-47-937MW1S-112906	6L01009-MS1	120606a-012	12/06/06 11:01
JAX-47-937MW1S-112906	6L01009-MSD1	120606a-013	12/06/06 11:08
JAX-47-937MW1S-112906	6L01009-MS2	120606a-014	12/06/06 11:15
JAX-47-937MW1S-112906	6L01009-MSD2	120606a-015	12/06/06 11:22
JAX-47-937MW1S-112906	B610310-01	120606a-016	12/06/06 11:29
JAX-47-937MW5S-112906	B610310-02	120606a-018	12/06/06 11:43
Calibration Blank	BA00081-CCB1	120606a-021	12/06/06 12:04
Calibration Check	BA00081-CCV1	120606a-022	12/06/06 12:12
JAX-47-EB03	B610310-03	120606a-023	12/06/06 12:19
JAX-47-EB04	B610310-04	120606a-024	12/06/06 12:26
JAX-47-MW15D-112906	B610310-05	120606a-025	12/06/06 12:34
JAX-47-MW15S-112906	B610310-06	120606a-026	12/06/06 12:41
JAX47-937MW3S-112906	B610310-07	120606a-027	12/06/06 12:47
Calibration Blank	BA00081-CCB2	120606a-034	12/06/06 13:39
Calibration Check	BA00081-CCV2	120606a-035	12/06/06 13:46

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-009

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX-47-937MW1S-112906	B610310-01
JAX-47-937MW5S-112906	B610310-02
JAX47-937MW3S-112906	B610310-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.10 10:38:14 -05'00'

Name: Christina Tompkins

Date: 01/04/07

Title: Project Manager

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612003
Control Limt: +/- 10.00%
Sequence: BA00081

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00081-ICV1	Arsenic (dissolved)	0.500	0.505	101	mg/L	EPA 6010B
BA00081-CCV1	Arsenic (dissolved)	0.500	0.505	101	mg/L	EPA 6010B
BA00081-CCV2	Arsenic (dissolved)	0.500	0.489	98	mg/L	EPA 6010B

* Values outside of QC limits

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-009
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00081
Calibration: 0612003

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00081-ICB1	Arsenic (dissolved)	0.00	0.01	mg/L		EPA 6010B
6L01009-BLK1	Arsenic (dissolved)	1.51	10	ug/L		EPA 6010B
BA00081-CCB1	Arsenic (dissolved)	0.00109	0.01	mg/L		EPA 6010B
BA00081-CCB2	Arsenic (dissolved)	0.00243	0.01	mg/L		EPA 6010B

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L01009-BLK1	File ID:	120606a-010
Prepared:	12/01/06 10:43	Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL
Analyzed:	12/06/06 10:47	Instrument:	JMICP1		
Batch:	6L01009	Sequence:	BA00081	Calibration:	0612003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	10	U

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-009

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Instrument ID: JMICP1

Calibration: 0612003

Sequence: BA00081

Lab Sample ID	Analyte	True	Found	%R	Units
BA00081-IFA1	Arsenic (dissolved)	1.00	1.02	102	mg/L
	Arsenic (dissolved)	1.00	1.02	102	mg/L

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX-47-937MW1S-112906

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L01009	Laboratory ID:	6L01009-MS2
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

Source Sample Name: JAX-47-937MW1S-112906

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Arsenic (dissolved)	1000	26.2	1040	101	80-120

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic (dissolved)	1000	1020	99	2	12	80-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L01009	Laboratory ID:	6L01009-BS1
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Arsenic (dissolved)	1000	1010	101	85 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-009

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic (dissolved)	4	10	ug/L

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-009

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L01009 Batch Matrix: Water Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L01009-BLK1	120606a-010	12/01/06 10:43	2 MS-2 MSD
LCS	6L01009-BS1	120606a-011	12/01/06 10:43	2 MS-2 MSD
JAX-47-937MW1S-112906	6L01009-MS2	120606a-014	12/01/06 10:43	
JAX-47-937MW1S-112906	6L01009-MSD2	120606a-015	12/01/06 10:43	
JAX-47-937MW1S-112906	B610310-01	120606a-017	12/01/06 10:43	Use this sample as your MS/MSD....Filtered
JAX-47-937MW5S-112906	B610310-02	120606a-019	12/01/06 10:43	Filtered
JAX47-937MW3S-112906	B610310-07	120606a-028	12/01/06 10:43	Filtered

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-009
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00081	Instrument:	JMICP1
Matrix:	Water	Calibration:	0612003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00081-ICB1	120606a-001	12/06/06 09:45
Cal Standard	BA00081-CAL1	120606a-002	12/06/06 09:52
Instrument Blank	BA00081-IBL1	120606a-003	12/06/06 09:59
Low Cal Check	BA00081-LCV1	120606a-004	12/06/06 10:06
Secondary Cal Check	BA00081-SCV1	120606a-005	12/06/06 10:13
Initial Cal Check	BA00081-ICV1	120606a-006	12/06/06 10:20
Interference Check A	BA00081-IFA1	120606a-008	12/06/06 10:33
Blank	6L01009-BLK1	120606a-010	12/06/06 10:47
LCS	6L01009-BS1	120606a-011	12/06/06 10:54
JAX-47-937MW1S-112906	6L01009-MS2	120606a-014	12/06/06 11:15
JAX-47-937MW1S-112906	6L01009-MSD2	120606a-015	12/06/06 11:22
JAX-47-937MW1S-112906	B610310-01	120606a-017	12/06/06 11:36
JAX-47-937MW5S-112906	B610310-02	120606a-019	12/06/06 11:50
Calibration Blank	BA00081-CCB1	120606a-021	12/06/06 12:04
Calibration Check	BA00081-CCV1	120606a-022	12/06/06 12:12
JAX47-937MW3S-112906	B610310-07	120606a-028	12/06/06 12:54
Calibration Blank	BA00081-CCB2	120606a-034	12/06/06 13:39
Calibration Check	BA00081-CCV2	120606a-035	12/06/06 13:46

Current ICP Standard Concentrations

Units = mg/L = ppm

Analyte	Curve	LDR	QCS LOW	Spikes	CVS	QCS 1	ICS	Y int
Ag 328.06	1.0	5.0	0.010	0.1	0.50	0.1	1.0	5.0
Ag 338.28	1.0	5.0	0.010	0.1	0.50	0.1	1.0	5.0
Al 308.215	10.0	100.0	0.100	10.0	5.00	10.0	500.0	5.0
As 188.97	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
B 208.959	5.0	500.0	0.050	1.0	2.50	1.0	1.0	5.0
Ba 233.52	1.0	20.0	0.010	1.0	0.50	1.0	1.0	5.0
Be 313.10	1.0	2.0	0.001	0.5	0.05	0.5	1.0	5.0
Ca 317.93	10.0	150.0	0.100	10.0	5.00	10.0	500.0	5.0
Ca Radial	10.0	150.0	0.100	10.0	5.00	10.0	500.0	5.0
Cd 226.50	1.0	50.0	0.001	0.5	0.05	0.5	1.0	5.0
Co 228.61	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
Cr 267.716	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
Cu 324.75	1.0	100.0	0.010	0.5	0.50	0.5	1.0	5.0
Fe 273.95	10.0	150.0	0.050	10.0	2.50	10.0	200.0	5.0
Fe Radial	10.0	150.0	0.050	10.0	2.50	10.0	200.0	5.0
K 766.491	10.0	200.0	0.500	50.0	25.00	50.0	10.0	5.0
Li 670.781	1.0	20.0	0.010	0.5	0.50	0.5	1.0	5.0
Mg 279.07	10.0	100.0	0.100	10.0	5.00	10.0	500.0	5.0
Mn 257.61	1.0	40.0	0.010	0.5	0.50	0.5	1.0	5.0
Mo 202.03	1.0	100.0	0.010	0.5	0.50	0.5	1.0	5.0
Na 589.59	10.0	100.0	0.500	50.0	25.00	50.0	1.0	5.0
Ni 231.604	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
Pb 220.35	1.0	150.0	0.010	1.0	0.50	1.0	1.0	5.0
Sb 206.83	1.0	5.0	0.010	0.5	0.50	0.5	1.0	5.0
Se 196.026	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
Sn 189.93	1.0	20.0	0.010	1.0	0.50	1.0	1.0	5.0
Sr 421.539	1.0	10.0	0.010	1.0	0.50	1.0	1.0	5.0
Ti 337.280	1.0	80.0	0.005	0.5	0.25	0.5	1.0	5.0
Tl 190.800	1.0	100.0	0.010	0.5	0.50	0.5	1.0	5.0
V 292.402	1.0	100.0	0.010	0.5	0.50	0.5	1.0	5.0
Zn 206.19	1.0	20.0	0.010	1.0	0.50	1.0	1.0	5.0

Kraus, Matthew -- NUS

From: Chris Tompkins [ctompkins@encolabs.com]
Sent: Monday, February 26, 2007 3:18 PM
To: Kraus, Matthew -- NUS
Cc: smartin@encolabs.com; 'Lorraine Strong'
Subject: RE: Metals Limits (2).xls

Matt,

Correct, the arsenic is a one-point calibration with the 1 ppm. However, the Low Level Quality Control Standard, (QCS-low) is the amount of analyte in the solution equal to the MQL (Minimum Quantitative Limit) of that analyte with the acceptance criteria of +/- 20% and it is not part of the curve. The QCS –low is a standard to verify that the instrument is responding down to the reporting limit. This is a requirement by NELAC/DoD when using a one-point calibration.

The Linear Dynamic Range (LDR) is the concentration range over which the instrument response to an analyte linearity with the acceptance criteria of +/- 10%. This is also a NELAC/DoD requirement with a one-point curve and must be performed every six months.

The "E" qualifier is estimated concentration because the concentration was about the one-point calibration; however, the "E" should have not been reported if the concentration is below the LDR or above the QCS. Element's programmers are addressing this problem

Thanks,

Chris Tompkins
Project Manager
Environmental Conservation Laboratories
904-296-3007

From: Kraus, Matthew -- NUS [mailto:Matthew.Kraus@ttnus.com]
Sent: Friday, February 23, 2007 4:31 PM
To: Chris Tompkins
Subject: RE: Metals Limits (2).xls

Chris,

Arsenic is 1ppm in the curve column, 100ppm in the LDR column, and 0.010ppm in the QCS low column. I believe this means that the one point calibration was run off of a 1ppm arsenic standard and that the low point of the curve is 0.010ppm and the high point is 100ppm, correct?

What do the acrynomns LDR and QCS stand for?

What does your "E" qualifier mean for metals? I did not find it in the definitions section of the Sample Summary/Laboratory Chronicle for SDG: BR006-009.

Thanks,

Matt

From: Chris Tompkins [mailto:ctompkins@encolabs.com]
Sent: Friday, February 23, 2007 3:52 PM
To: Kraus, Matthew -- NUS
Subject: Metals Limits (2).xls

Matt,
Here is the form that we just talked about. Please let me know if you have any other questions.

Thanks,

Chris Tompkins
Project Manager
Environmental Conservation Laboratories
904-296-3007

SRV: JAX-47-MW155-112906 [As] = 5.2 ug/L as reported by the laboratory.

Mo 202.030	15.5	0.0008	0.00054	mg/L	0.0008	0.00054	mg/L	65.75 %
Na 589.592R	96,331.4	7.35	0.280	mg/L	7.35	0.280	mg/L	3.81 %
Ni 231.604	111.8	0.002	0.0004	mg/L	0.002	0.0004	mg/L	23.38 %
Pb 220.353	27.1	0.0022	0.00089	mg/L	0.0022	0.00089	mg/L	40.60 %
Sb 206.833	-16.2	-0.0052	0.00212	mg/L	-0.0052	0.00212	mg/L	40.78 %
Se 196.026	-13.1	-0.0049	0.00339	mg/L	-0.0049	0.00339	mg/L	68.50 %
Sn 189.933	-7.4	-0.0011	0.00110	mg/L	-0.0011	0.00110	mg/L	99.78 %
Sr 421.539R	20,458.1	0.0374	0.00171	mg/L	0.0374	0.00171	mg/L	4.58 %
Ti 337.280	4,348.0	0.0069	0.00024	mg/L	0.0069	0.00024	mg/L	3.49 %
Tl 190.800	-0.9	0.0000	0.00337	mg/L	0.0000	0.00337	mg/L	14,483. %
V 292.402	428.9	0.0019	0.00033	mg/L	0.0019	0.00033	mg/L	17.49 %
Zn 206.191	1,226.4	0.0195	0.00007	mg/L	0.0195	0.00007	mg/L	0.34 %

Mean Data

ID: b610310-06 **Seq. No.:** 26 **A/S Pos:** 37

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2006/12/06 12:39:15

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	106,059.8	101	0.9	%			%	0.89 %
Y361.105A	1,067,937.6	101	0.4	%			%	0.37 %
Ag 338.289	-58.2	-0.0003	0.00084	mg/L	-0.0003	0.00084	mg/L	240.83 %
Ag 328.068	-189.1	-0.0007	0.00048	mg/L	-0.0007	0.00048	mg/L	72.58 %
Al 308.215	6,824.6	5.92	0.124	mg/L	5.92	0.124	mg/L	2.10 %
As 188.979	12.9	0.0052	0.00325	mg/L	0.0052	0.00325	mg/L	63.00 %
Ba 233.527	4,084.0	0.0249	0.00007	mg/L	0.0249	0.00007	mg/L	0.27 %
Be 313.107	341.1	0.0000	0.00004	mg/L	0.0000	0.00004	mg/L	88.94 %
B 208.959	262.1	0.0177	0.00041	mg/L	0.0177	0.00041	mg/L	2.32 %

$\frac{0.0052\ mg}{L} \cdot \frac{1000\ ug}{1\ mg} = \frac{5.2\ ug}{L}$

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MARK PETERSON** **DATE:** **MARCH 8, 2007**

FROM: **KELLY CARPER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/SVOC/PEST**
NAS JACKSONVILLE
CTO 047 SDG BR006-010

SAMPLES: 12/Aqueous/VOC/SVOC/PEST

JAX47-937MW10S-113006	JAX47-937MW2S-113006	JAX47-MW6D-113006
JAX47-DU01-120106	JAX47-MW13D-120106	JAX-MW13S-1201006
JAX47-MW18D-113006	JAX47-MW18S-113006	JAX47-MW20S-113006
JAX47-MW27S-113006	TRIP BLANK #2	USGS-SSMW45-113006

1/Aqueous/PEST
JAX47-R01-113007

OVERVIEW

The sample set for NAS Jacksonville CTO 047, SDG BR006-010 consists of one (1) trip blank, and thirteen (13) environmental water samples. One field duplicate pair was included in this SDG: JAX-DU01-120106/JAX47-MW13S-120106. All samples were analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), and pesticide compounds (PEST). The trip blank was analyzed for VOCs only.

The samples were collected by TetraTech NUS on November 30 and December 1, 2006 and analyzed by Environmental Conservation Laboratory (ENCO). All analyses were conducted in accordance with SW-846 Methods 8260B, 8270C, and 8081A analysis and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• GC/MS Tuning
	• Initial and continuing calibration
	• Blank results
	• Surrogate spike recoveries
*	• Internal standard recoveries
	• Blank Spike/Blank Spike Duplicate Results
*	• Matrix Spike/Matrix Spike Duplicate Results
	• Field Duplicate Precision
*	• Detection Limits
*	• Compound Quantitation
*	• Compound Identification

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Volatiles

The following compounds were detected in the method blanks at the following maximum concentrations:

Compound	Maximum Concentration	Action Level
Acetone	2.2 ug/L	22 ug/L
1,2,4-trichlorobenzene	0.26 ug/L	1.3 ug/L

Blank Actions

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.
- Value > RL and > action level; report value unqualified.

Action levels of 10X the maximum contaminant concentration (for acetone) were established to evaluate blank contamination. Action levels of 5X the maximum contaminant concentration (for 1,2,4-trichlorobenzene) were established to evaluate blank contamination. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results for 1,2,4-trichlorobenzene were qualified as indicated above. No positive results were reported for acetone in the environmental samples. Acetone was also detected in the trip blank. However, the trip blank was not qualified for method blank contamination.

The initial calibration relative response factor (RRF) was less than the 0.05 quality control limit for 4-methyl-2-pentanone on instrument JVGCMS1 on 11/30/06. The continuing calibration RRF (12/15/06 at 9:39) was also less than 0.05. The nondetected result reported for this compound in all samples were rejected, qualified (UR).

Initial calibration percent relative standard deviations (%RSDs) were greater than the 30% quality control limit for bromomethane, methylcyclohexane, and bromoform on instrument JVGCMS1 on 12/0706. The positive and nondetected results reported for these compounds were qualified as estimated (J) and (UJ), respectively. All samples in the SDG are affected.

The continuing calibration percent difference (%D) for bromomethane was greater than the 25% quality control limit on instrument JVGCMS1 on 12/7/06 at 0:14. The nondetected results reported for this compound were qualified as estimated (UJ) in all samples except the dilution analysis of sample JAX47-937MW2S-113006.

The continuing calibration %D for dichlorodifluoromethane, bromomethane, acetone, carbon disulfide, and tetrachloroethane was greater than the 25% quality control limit on instrument JVGCMS1 on 12/15/06 at 9:39. No actions were necessary as the only sample affected was the dilution analysis of JAX47-937MW2S-113006 and only cis-1,2-dichloroethene was reported from this analysis.

The Laboratory Control Samples (LCS) 6L07013 had percent recoveries (%Rs) for dichlorodifluoromethane and chloromethane that was higher than the respective quality control limit. No action was necessary as no positive results were reported for these compounds in the affected samples and nondetects are not impacted by high %Rs.

According to the lab case narrative the matrix spike/matrix spike duplicate (MS/MSD)was performed on an alternate sample because of insufficient sample volume.

Sample JAX47-937MW6D-113006 was submitted but was not logged on the chain of custody. The project manager authorized analysis.

Sample JAX47-937MW2S-113006 was reanalyzed at a 5-fold dilution because the concentration of cis-1,2-dichloroethene was in excess of the linear calibration range of the instrument. Only the result for cis-1,2-dichloroethene was reported from the 5-fold dilution analysis. The dilution analysis was performed outside the maximum allowable holding time hence the cis-1,2-dichloroethene result was qualified as estimated (J).

Poor field duplicate precision was noted for 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, benzene, and chlorobenzene in the sample pair JAX47-DU01-120106/JAX47-MS13S-120106. the relative

precent differences (RPDs) for these compounds were greater than the 30% quality control limit. Positive results for these compounds in the field duplicate pair were qualified as estimated (J).

SVOCs

Initial calibration %RSDs were greater than the 30% quality control limit for hexachlorocyclopentadiene, 2,4-dinitrophenol, N-nitrosodiphenylamine, and pentachlorophenol on instrument JSVGCMS1 on 11/01/06. The nondetected results reported for these compounds were qualified as estimated (UJ). All samples in the SDG are affected.

The continuing calibration %D for 4-chloroaniline, 2,4-dinitrophenol, 4-nitroaniline, 2-methyl-4,6-dinitrophenol, and carbazole were greater than the 25% quality control limit on instrument JSVGCMS1 on 12/8/06 at 12:27. The nondetected results reported for these compounds were qualified as estimated (UJ) in all samples.

The continuing calibration %D for 4-chloroaniline, 2-nitroaniline, 3-nitroaniline, and carbazole were greater than the 25% quality control limit on instrument JSVGCMS1 on 12/8/06 at 14:37. The nondetected results reported for these compounds were qualified as estimated (UJ) in all samples.

The LCS 6L07001 had %Rs for 4-chloroaniline, 3-nitroaniline, N-nitrosodiphenylamine, and carbazole that were higher than the respective quality control limits. No actions were necessary as no positive results were reported for these compounds in the affected samples and nondetects are not impacted by high %Rs.

The surrogate %R for 2-fluorobiphenyl was high in sample JAX47-MW13D-1200106. No actions were warranted as only one fractional surrogate was noncompliant.

The internal standard area for perylene-d12 was high in sample JAX47-13S-120106. All compounds quantiated using the failed internal standard were qualified as estimated. Only nondetects were reported and these were qualified (UJ).

Sample JAX47-937MW2S-113006 was reanalyzed at a 10-fold dilution because the concentration of 2,4,5-trichlorophenol was in excess of the linear calibration range of the instrument. Only the result for 2,4,5-trichlorophenol was reported from the 10-fold dilution analysis.

Pest

The initial calibration performed on 12/1/06 at instrument JSVGCECD2 yielded %RSDs that exceeded the 20% quality control criterion for delta-BHC on column 1 and 4,4'-DDT on column2. Since the noncompliances only occur on one column only positive results are affected and the positive delta-BHC results in samples JAX47-937MW2S-113006 and JAX47-MW27S-113006 were qualified as estimated (J).

The continuing calibration performed on 12/8/06 at 11:13 on instrument JSVGCECD2 yielded %Ds that exceeded the 15% quality control criterion for gamma-chlordane and endrin on both columns and aldrin, heptachlor epoxide, gamma-chlordane, 4,4-DDE, endosulfan I, dieldrin, 4,4'-DDD, endosulfan II, and endrin ketone on column 2. The positive and nondetected results reported for gamma-chlordane and endrin in samples JAX47-937MW2S-113006, JAX47-MW6D-113006, JAX47-937MW10S-113006, JAX47-MW18D-113006, and JAX47-MW18S-113006 were qualified as estimated (J) and (UJ), respectively.

The continuing calibration performed on 1/5/06 at 17:58 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for delta-BHC on both column 1. No actions were warranted as no environmental samples were impacted by this noncompliance.

The surrogate %R for decachlorobiphenyl on column 1 was high in sample JAX47-937MW2S-113006. Positive results reported from column I in this sample were qualified as estimated (J). Nondetects are no impacted by this noncompliance.

The laboratory control sample 6L07002 yielded a low %R for endrin ketone on column 2. No action was warranted as the recovery was noncompliant on one column only.

Positive pesticide results were qualified as estimated (J) as a result of high percent differences (>100%) between analytical columns in the following:

Analyte	%D
JAX47-937MW2S-113006	
gamma-BHC	1757
beta-BHC	378.4
Aldrin	1321.1
Endosulfan sulfate	593.3
Endrin ketone	944.5
JAX47-MW20S-113006	
Heptachlor epoxide	100
JAX47-MW27S-113006	
Alpha-chlordane	500
4,4'-DDD	1600
JAX47-R01-113006	
Dieldrin	1300
JAX47-DU01-120106	
Endrin	320
Endosulfan II	114.3
Endrin Ketone	750
JAX47-MW13S-120106	
4,4'-DDE	425
Endrin	316.7
Endosulfan II	125
Methoxychlor	309.1
Endrin ketone	211.8

Positive pesticide results were qualified as estimated (J) as a result of percent differences (>25% but less than 100%) between analytical columns in the following:

Analyte	%D
JAX47-937MW2S-113006	
Alpha-Chlordane	39.1
4,4'-DDE	94.1
4,4'-DDD	80.3
JAX47-MW20S-113006	
Endosulfan II	33.3
JAX47-MW27S-113006	
Dieldrin	33.3
Endrin ketone	50
JAX47-DU01-120106	
Aldrin	40
Heptachlor epoxide	25.9
JAX47-MW13S-120106	
Heptachlor	33.3
Aldrin	45.5
Heptachlor epoxide	46.4
alpha-Chlordane	36.8

Poor field duplicate precision was noted for alpha-chlordane, endrin aldehyde, and endrin ketone in the sample pair JAX47-DU01-120106/JAX47-MS13S-120106. the relative precent differences (RPDs) for these compounds were greater than the 30% quality control limit. Positive results for these compounds in the field duplicate pair were qualified as estimated (J).

The laboratory reported the higher of the results from the 2 analytical columns but the Form Is don't always agree with the database. Results summarized in the database were used for validation.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Acetone and 1,2,4-trichlorobenzene were detected in method blanks. Several VOC, SVOC, and PEST compounds had noncompliant calibration %RSDs and %Ds. SVOC and PEST surrogate noncompliances were noted. VOC, SVOC, and PEST LCS noncompliances were noted. Positive pesticide results were estimated due to high %Ds between analytical columns.

Other Factors Affecting Data Quality: A few VOC, SVOC, and PEST samples required dilution.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99). The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech NUS

Kelly A. Carper
Environmental Scientist

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-937MW2S-113006
samp_date	11/30/2006
lab_id	B610359-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.3	U	A
1,2-DIBROMO-3-CHLOROPROPANE	2.7		
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	4.4		
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	1.5	J	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.8	J	P
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	1		
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	
DICHLORODIFLUOROMETHANE	0.3	U	

nsample	JAX47-937MW2S-113006
samp_date	11/30/2006
lab_id	B610359-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	26.8		
ISOPROPYLBENZENE	1.6		
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	1.7		
TETRACHLOROETHENE	3.8		
TOLUENE	3.5		
TOTAL XYLENES	89.5		
TRANS-1,2-DICHLOROETHENE	1.7		
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	3.1		
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	5.1		

nsample	JAX47-937MW2S-113006-RE
samp_date	11/30/2006
lab_id	B610359-01RE1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,2-DICHLOROETHENE	228	J	H

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-937MW6D-113006	nsample	JAX47-937MW6D-113006	nsample	JAX47-DU01-120106
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	12/1/2006
lab_id	B610359-02	lab_id	B610359-02	lab_id	B610359-10
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	JAX47-MW13S-120106

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.9	J	P
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	8.6		
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	4.4	J	G
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	2	J	G
1,4-DICHLOROBENZENE	6.3	J	G
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.9	J	GP
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	4.2	J	G
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-DU01-120106	nsample	JAX47-MW10S-113006	nsample	JAX47-MW10S-113006
samp_date	12/1/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-10	lab_id	B610359-03	lab_id	B610359-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:	JAX47-MW13S-120106	DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.5	J	P
ISOPROPYLBENZENE	0.3	J	P
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.8	J	P
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW13D-120106	nsample	JAX47-MW13D-120106	nsample	JAX47-MW13S-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610359-11	lab_id	B610359-11	lab_id	B610359-12
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.4	U	A
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	6.6		
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	2.3	J	G
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	1.3	J	G
1,4-DICHLOROBENZENE	3.9	J	G
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.6	J	GP
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	2.6	J	G
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW13S-120106
samp_date	12/1/2006
lab_id	B610359-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	JAX47-MW18D-113006
samp_date	11/30/2006
lab_id	B610359-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

nsample	JAX47-MW18D-113006
samp_date	11/30/2006
lab_id	B610359-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW18S-113006	nsample	JAX47-MW18S-113006	nsample	JAX47-MW20S-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-05	lab_id	B610359-05	lab_id	B610359-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW20S-113006
samp_date	11/30/2006
lab_id	B610359-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	JAX47-MW27S-113006
samp_date	11/30/2006
lab_id	B610359-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.8	U	A
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.4	J	P
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	J	P
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

nsample	JAX47-MW27S-113006
samp_date	11/30/2006
lab_id	B610359-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	Trip Blank #2	nsample	Trip Blank #2	nsample	USGS-SSMW45-113006
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	11/30/2006
lab_id	B610359-13	lab_id	B610359-13	lab_id	B610359-09
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2.7	J	P
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	UR	C
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	UJ	C
BROMOMETHANE	0.6	UJ	C
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OV

nsample	USGS-SSMW45-113006
samp_date	11/30/2006
lab_id	B610359-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-937MW2S-113006	nsample	JAX47-937MW2S-113006	nsample	JAX47-937MW2S-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-01	lab_id	B610359-01	lab_id	B610359-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	104		
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	6	J	P
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	10	J	P
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	14		
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-937MW6D-113006	nsample	JAX47-937MW6D-113006	nsample	JAX47-937MW6D-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-02	lab_id	B610359-02	lab_id	B610359-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-DU01-120106	nsample	JAX47-DU01-120106	nsample	JAX47-DU01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610359-10	lab_id	B610359-10	lab_id	B610359-10
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:	JAX47-MW13S-120106	DUP_OF:	JAX47-MW13S-120106	DUP_OF:	JAX47-MW13S-120106

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW10S-113006	nsample	JAX47-MW10S-113006	nsample	JAX47-MW10S-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-03	lab_id	B610359-03	lab_id	B610359-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW13D-120106	nsample	JAX47-MW13D-120106	nsample	JAX47-MW13D-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610359-11	lab_id	B610359-11	lab_id	B610359-11
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW13S-120106	nsample	JAX47-MW13S-120106	nsample	JAX47-MW13S-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610359-12	lab_id	B610359-12	lab_id	B610359-12
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	UJ	N

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	UJ	N
BENZO(G,H,I)PERYLENE	3	UJ	N
BENZO(K)FLUORANTHENE	1	UJ	N
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	UJ	N
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	UJ	N
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	UJ	N
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW18D-113006	nsample	JAX47-MW18D-113006	nsample	JAX47-MW18D-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-04	lab_id	B610359-04	lab_id	B610359-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW18S-113006	nsample	JAX47-MW18S-113006	nsample	JAX47-MW18S-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-05	lab_id	B610359-05	lab_id	B610359-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW20S-113006	nsample	JAX47-MW20S-113006	nsample	JAX47-MW20S-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-06	lab_id	B610359-06	lab_id	B610359-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW27S-113006	nsample	JAX47-MW27S-113006	nsample	JAX47-MW27S-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-07	lab_id	B610359-07	lab_id	B610359-07
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: OS

nsample	USGS-SSMW45-113006	nsample	USGS-SSMW45-113006	nsample	USGS-SSMW45-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-09	lab_id	B610359-09	lab_id	B610359-09
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	UJ	C
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-937MW2S-113006	nsample	JAX47-937MW6D-113006	nsample	JAX47-DU01-120106
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	12/1/2006
lab_id	B610359-01	lab_id	B610359-02	lab_id	B610359-10
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	JAX47-MW13S-120106

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.071	J	RU
4,4'-DDE	0.033	J	PRU
4,4'-DDT	0.002	U	
ALDRIN	3.5	J	U
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.27	J	CRU
BETA-BHC	0.097	J	U
DELTA-BHC	0.42	J	CR
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.045	J	PRU
ENDRIN	0.002	UJ	C
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	4.7	J	U
GAMMA-BHC (LINDANE)	0.007	J	PRU
GAMMA-CHLORDANE	0.001	UJ	C
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	UJ	C
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.004	J	EP
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	UJ	C
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.54		
4,4'-DDE	0.002	U	
4,4'-DDT	0.38		
ALDRIN	0.01	J	PU
ALPHA-BHC	2		
ALPHA-CHLORDANE	0.16	J	G
BETA-BHC	0.28		
DELTA-BHC	1.7		
DIELDRIN	0.038	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.007	J	PU
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.021	J	PU
ENDRIN ALDEHYDE	0.011	J	GP
ENDRIN KETONE	0.006	J	GPU
GAMMA-BHC (LINDANE)	2.5		
GAMMA-CHLORDANE	0.25		
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.073	J	U
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW10S-113006	nsample	JAX47-MW13D-120106	nsample	JAX47-MW13S-120106
samp_date	11/30/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610359-03	lab_id	B610359-11	lab_id	B610359-12
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	UJ	C
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	UJ	C
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.31		
4,4'-DDE	0.003	J	P
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.69		
4,4'-DDE	0.004	J	PU
4,4'-DDT	0.49		
ALDRIN	0.011	J	PU
ALPHA-BHC	2.7		
ALPHA-CHLORDANE	0.28	J	GU
BETA-BHC	0.32		
DELTA-BHC	2.3		
DIELDRIN	0.036	J	P
ENDOSULFAN I	0.011	J	P
ENDOSULFAN II	0.008	J	PU
ENDOSULFAN SULFATE	0.006	J	P
ENDRIN	0.025	J	PU
ENDRIN ALDEHYDE	0.021	J	GP
ENDRIN KETONE	0.017	J	GPU
GAMMA-BHC (LINDANE)	3.3		
GAMMA-CHLORDANE	0.32		
HEPTACHLOR	0.028	J	PU
HEPTACHLOR EPOXIDE	0.082	J	U
METHOXYCHLOR	0.011	J	PU
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW18D-113006	nsample	JAX47-MW18S-113006	nsample	JAX47-MW20S-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-04	lab_id	B610359-05	lab_id	B610359-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	UJ	C
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	UJ	C
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	UJ	C
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	UJ	C
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.009	J	P
DELTA-BHC	0.001	U	
DIELDRIN	0.047	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.003	J	PU
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.016	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.004	J	PU
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW27S-113006	nsample	JAX47-R01-113006	nsample	USGS-SSMW45-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-07	lab_id	B610359-08	lab_id	B610359-09
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.001	J	PU
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.21		
ALPHA-CHLORDANE	0.012	J	PU
BETA-BHC	0.16		
DELTA-BHC	0.41	J	C
DIELDRIN	0.004	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.013	J	P
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.006	J	EPU
GAMMA-BHC (LINDANE)	0.33		
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.012	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.028	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW2S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-01	File ID:	9LBA009A-0
Sampled:	11/30/06 16:10	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 13:49
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.007	JP
319-85-7	beta-BHC	1	0.097	P
319-86-8	delta-BHC	1	0.42	
76-44-8	Heptachlor	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.27	P
72-55-9	4,4'-DDE	1	0.033	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.071	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.045	JP
8001-35-2	Toxaphene	1	1.0	U
309-00-2	Aldrin	1	0.25	P
53494-70-5	Endrin ketone	1	0.45	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.749	75	25 - 140	
DBC	1.00	1.67	167	30 - 135	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW6D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-02	File ID:	9LBA010A-0
Sampled:	11/30/06 14:50	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 14:15
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4′-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4′-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4′-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.004	J
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.610	61	25 - 140	
DBC	1.00	0.724	72	30 - 135	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW10S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-03	File ID:	7LB038.D
Sampled:	11/30/06 16:15	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 05:52
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW10S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-03	File ID:	7LB038.D
Sampled:	11/30/06 16:15	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 05:52
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	49.2	98	85 - 115	
Toluene-d8	50.0	49.6	99	85 - 120	
4-Bromofluorobenzene	50.0	47.4	95	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	312036	11.44	345714	11.43	
1,4-Difluorobenzene	721269	12.1	782949	12.09	
Chlorobenzene-d5	808524	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	352256	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW2S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-01	File ID:	7LB047.D
Sampled:	11/30/06 16:10	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 10:28
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	5.1	
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.7	
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	291	E
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	4.4	
79-01-6	Trichloroethene	1	3.1	
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	3.5	
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	3.8	
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	0.8	J
100-41-4	Ethylbenzene	1	26.8	
100-42-5	Styrene	1	1.7	
75-25-2	Bromoform	1	1.5	
98-82-8	Isopropylbenzene	1	1.6	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW2S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-01	File ID:	7LB047.D
Sampled:	11/30/06 16:10	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 10:28
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	2.7	
120-82-1	1,2,4-Trichlorobenzene	1	0.3	J
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	89.5	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	52.6	105	85 - 115	
Toluene-d8	50.0	51.9	104	85 - 120	
4-Bromofluorobenzene	50.0	49.0	98	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	248646	11.43	345714	11.43	
1,4-Difluorobenzene	594380	12.09	782949	12.09	
Chlorobenzene-d5	669968	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	305552	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW2S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-01RE1	File ID:	7LJ020.D
Sampled:	11/30/06 16:10	Prepared:	12/06/06 11:00	Analyzed:	12/15/06 19:24
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethene	5	228	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.6	95	85 - 115	
Toluene-d8	50.0	47.7	95	85 - 120	
4-Bromofluorobenzene	50.0	40.7	81	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	276480	11.45	286819	11.44	
1,4-Difluorobenzene	597472	12.11	615674	12.1	
Chlorobenzene-d5	537452	15.29	559739	15.28	
1,4-Dichlorobenzene-d4	200054	17.48	226499	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW6D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-02	File ID:	7LB037.D
Sampled:	11/30/06 14:50	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 05:21
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.9	J
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW6D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-02	File ID:	7LB037.D
Sampled:	11/30/06 14:50	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 05:21
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	48.2	96	85 - 115	
Toluene-d8	50.0	49.4	99	85 - 120	
4-Bromofluorobenzene	50.0	47.2	94	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	317005	11.44	345714	11.43	
1,4-Difluorobenzene	738953	12.1	782949	12.09	
Chlorobenzene-d5	816466	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	368070	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-DU01-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-10	File ID:	7LB044.D
Sampled:	12/01/06 00:00	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 08:56
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	0.9	J
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	4.2	
100-41-4	Ethylbenzene	1	0.5	J
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	0.3	J

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-DU01-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-10	File ID:	7LB044.D
Sampled:	12/01/06 00:00	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 08:56
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	2.0	
106-46-7	1,4-Dichlorobenzene	1	6.3	
95-50-1	1,2-Dichlorobenzene	1	4.4	
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	8.6	
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	0.8	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	49.1	98	85 - 115	
Toluene-d8	50.0	50.6	101	85 - 120	
4-Bromofluorobenzene	50.0	47.0	94	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	285006	11.43	345714	11.43	
1,4-Difluorobenzene	662196	12.09	782949	12.09	
Chlorobenzene-d5	748721	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	330999	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW13D-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-11	File ID:	7LB045.D
Sampled:	12/01/06 10:45	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 09:26
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW13D-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-11	File ID:	7LB045.D
Sampled:	12/01/06 10:45	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 09:26
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.4	J
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	51.8	104	85 - 115	
Toluene-d8	50.0	49.4	99	85 - 120	
4-Bromofluorobenzene	50.0	47.4	95	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	274033	11.44	345714	11.43	
1,4-Difluorobenzene	661893	12.1	782949	12.09	
Chlorobenzene-d5	741125	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	335575	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-12	File ID:	7LB046.D
Sampled:	12/01/06 09:30	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 09:57
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	0.6	J
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	2.6	
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-12	File ID:	7LB046.D
Sampled:	12/01/06 09:30	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 09:57
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.3	
106-46-7	1,4-Dichlorobenzene	1	3.9	
95-50-1	1,2-Dichlorobenzene	1	2.3	
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	6.6	
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	49.7	99	85 - 115	
Toluene-d8	50.0	50.3	101	85 - 120	
4-Bromofluorobenzene	50.0	48.9	98	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	275864	11.43	345714	11.43	
1,4-Difluorobenzene	645843	12.1	782949	12.09	
Chlorobenzene-d5	730203	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	333212	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW18D-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-04	File ID:	7LB039.D
Sampled:	11/30/06 10:10	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 06:23
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW18D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-04	File ID:	7LB039.D
Sampled:	11/30/06 10:10	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 06:23
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.8	96	85 - 115	
Toluene-d8	50.0	49.1	98	85 - 120	
4-Bromofluorobenzene	50.0	47.3	95	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	310403	11.44	345714	11.43	
1,4-Difluorobenzene	716650	12.1	782949	12.09	
Chlorobenzene-d5	794791	15.29	858966	15.28	
1,4-Dichlorobenzene-d4	361525	17.47	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW18S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-05	File ID:	7LB040.D
Sampled:	11/30/06 12:07	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 06:53
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW18S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-05	File ID:	7LB040.D
Sampled:	11/30/06 12:07	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 06:53
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	48.6	97	85 - 115	
Toluene-d8	50.0	49.9	100	85 - 120	
4-Bromofluorobenzene	50.0	49.0	98	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	304461	11.44	345714	11.43	
1,4-Difluorobenzene	701481	12.1	782949	12.09	
Chlorobenzene-d5	763356	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	352857	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW20S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-06	File ID:	7LB041.D
Sampled:	11/30/06 13:45	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 07:24
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW20S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-06	File ID:	7LB041.D
Sampled:	11/30/06 13:45	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 07:24
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	48.3	97	85 - 115	
Toluene-d8	50.0	49.8	100	85 - 120	
4-Bromofluorobenzene	50.0	47.8	96	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	290880	11.44	345714	11.43	
1,4-Difluorobenzene	690308	12.1	782949	12.09	
Chlorobenzene-d5	775125	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	344946	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW27S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-07	File ID:	7LB042.D
Sampled:	11/30/06 11:15	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 07:54
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	0.2	J
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW27S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-07	File ID:	7LB042.D
Sampled:	11/30/06 11:15	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 07:54
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.4	J
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.8	J
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	49.2	98	85 - 115	
Toluene-d8	50.0	50.3	101	85 - 120	
4-Bromofluorobenzene	50.0	46.7	93	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	290822	11.44	345714	11.43	
1,4-Difluorobenzene	681937	12.1	782949	12.09	
Chlorobenzene-d5	764836	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	337402	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

Trip Blank #2

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	B610359-13	File ID:	7LB036.D
Sampled:	12/01/06 00:00	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 04:51
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	2.7	J
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

Trip Blank #2

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	B610359-13	File ID:	7LB036.D
Sampled:	12/01/06 00:00	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 04:51
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.8	94	85 - 115	
Toluene-d8	50.0	48.6	97	85 - 120	
4-Bromofluorobenzene	50.0	47.6	95	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	323478	11.44	345714	11.43	
1,4-Difluorobenzene	756594	12.1	782949	12.09	
Chlorobenzene-d5	826699	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	365868	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

USGS-SSMW45-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-09	File ID:	7LB043.D
Sampled:	11/30/06 15:10	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 08:25
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

USGS-SSMW45-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-09	File ID:	7LB043.D
Sampled:	11/30/06 15:10	Prepared:	12/06/06 11:00	Analyzed:	12/07/06 08:25
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	51.9	104	85 - 115	
Toluene-d8	50.0	49.7	99	85 - 120	
4-Bromofluorobenzene	50.0	46.4	93	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	280144	11.44	345714	11.43	
1,4-Difluorobenzene	673429	12.1	782949	12.09	
Chlorobenzene-d5	763609	15.27	858966	15.28	
1,4-Dichlorobenzene-d4	333256	17.46	390110	17.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW10S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-03	File ID:	5LC019.D
Sampled:	11/30/06 16:15	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 19:03
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW10S-113006

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-03 | File ID: 5LC019.D

Sampled: 11/30/06 16:15 | Prepared: 12/07/06 11:00 | Analyzed: 12/08/06 19:03

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 6L07001 | Sequence: BA00114 | Calibration: 0612007 | Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	35.7	36	20 - 110	
Phenol-d5	100	22.5	22	10 - 94	
Nitrobenzene-d5	50.0	31.1	62	40 - 110	
2-Fluorobiphenyl	50.0	29.5	59	50 - 110	
2,4,6-Tribromophenol	100	89.3	89	40 - 125	
Terphenyl-d14	50.0	39.3	79	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	188588	4.79	168681	4.79	
Naphthalene-d8	635268	5.98	582734	5.98	
Acenaphthene-d10	418797	7.71	385162	7.71	
Phenanthrene-d10	754765	9.2	672932	9.2	
Chrysene-d12	875874	11.85	722963	11.85	
Perylene-d12	898621	13.24	584124	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW2S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-01	File ID:	5LC017.D
Sampled:	11/30/06 16:10	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 18:15
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	6	J
91-20-3	Naphthalene	1	14	
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	J
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U
118-74-1	Hexachlorobenzene	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW2S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-01	File ID:	5LC017.D
Sampled:	11/30/06 16:10	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 18:15
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	53.6	54	20 - 110	
Phenol-d5	100	40.9	41	10 - 94	
Nitrobenzene-d5	50.0	35.7	71	40 - 110	
2-Fluorobiphenyl	50.0	35.3	71	50 - 110	
2,4,6-Tribromophenol	100	101	101	40 - 125	
Terphenyl-d14	50.0	41.0	82	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	188862	4.79	168681	4.79	
Naphthalene-d8	654545	5.98	582734	5.98	
Acenaphthene-d10	438864	7.72	385162	7.71	
Phenanthrene-d10	791842	9.2	672932	9.2	
Chrysene-d12	876067	11.87	722963	11.85	
Perylene-d12	922699	13.24	584124	13.24	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW2S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-01RE1	File ID:	5LC028.D
Sampled:	11/30/06 16:10	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 22:39
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-95-4	2,4,5-Trichlorophenol	10	104	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	45.8	46	20 - 110	
Phenol-d5	100	32.7	33	10 - 94	
Nitrobenzene-d5	50.0	27.2	54	40 - 110	
2-Fluorobiphenyl	50.0	32.0	64	50 - 110	
2,4,6-Tribromophenol	100	71.1	71	40 - 125	
Terphenyl-d14	50.0	35.7	71	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	193316	4.79	168681	4.79	
Naphthalene-d8	680198	5.98	582734	5.98	
Acenaphthene-d10	440039	7.71	385162	7.71	
Phenanthrene-d10	771542	9.2	672932	9.2	
Chrysene-d12	897687	11.85	722963	11.85	
Perylene-d12	943068	13.24	584124	13.24	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW6D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-02	File ID:	5LC018.D
Sampled:	11/30/06 14:50	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 18:39
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW6D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-02	File ID:	5LC018.D
Sampled:	11/30/06 14:50	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 18:39
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3´-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	54.5	54	20 - 110	
Phenol-d5	100	41.6	42	10 - 94	
Nitrobenzene-d5	50.0	38.0	76	40 - 110	
2-Fluorobiphenyl	50.0	34.4	69	50 - 110	
2,4,6-Tribromophenol	100	95.0	95	40 - 125	
Terphenyl-d14	50.0	42.9	86	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	176429	4.79	168681	4.79	
Naphthalene-d8	588299	5.98	582734	5.98	
Acenaphthene-d10	392326	7.71	385162	7.71	
Phenanthrene-d10	696013	9.2	672932	9.2	
Chrysene-d12	823260	11.85	722963	11.85	
Perylene-d12	849897	13.24	584124	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-DU01-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-10	File ID:	5LC025.D
Sampled:	12/01/06 00:00	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 21:27
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-DU01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-10	File ID:	5LC025.D
Sampled:	12/01/06 00:00	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 21:27
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3´-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	44.8	45	20 - 110	
Phenol-d5	100	28.6	29	10 - 94	
Nitrobenzene-d5	50.0	35.9	72	40 - 110	
2-Fluorobiphenyl	50.0	28.9	58	50 - 110	
2,4,6-Tribromophenol	100	106	106	40 - 125	
Terphenyl-d14	50.0	44.3	89	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	221458	4.79	168681	4.79	
Naphthalene-d8	765530	5.98	582734	5.98	
Acenaphthene-d10	504491	7.72	385162	7.71	
Phenanthrene-d10	910176	9.2	672932	9.2	
Chrysene-d12	1086426	11.85	722963	11.85	
Perylene-d12	1132880	13.24	584124	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW13D-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-11	File ID:	5LC026.D
Sampled:	12/01/06 10:45	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 21:51
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW13D-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-11	File ID:	5LC026.D
Sampled:	12/01/06 10:45	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 21:51
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	29.2	29	20 - 110	
Phenol-d5	100	20.0	20	10 - 94	
Nitrobenzene-d5	50.0	27.3	55	40 - 110	
2-Fluorobiphenyl	50.0	19.2	38	50 - 110	*
2,4,6-Tribromophenol	100	77.0	77	40 - 125	
Terphenyl-d14	50.0	39.6	79	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	210146	4.79	168681	4.79	
Naphthalene-d8	716213	5.98	582734	5.98	
Acenaphthene-d10	469221	7.71	385162	7.71	
Phenanthrene-d10	838410	9.2	672932	9.2	
Chrysene-d12	962835	11.85	722963	11.85	
Perylene-d12	1028329	13.24	584124	13.24	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-12	File ID:	5LC027.D
Sampled:	12/01/06 09:30	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 22:15
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-12	File ID:	5LC027.D
Sampled:	12/01/06 09:30	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 22:15
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	43.5	44	20 - 110	
Phenol-d5	100	27.3	27	10 - 94	
Nitrobenzene-d5	50.0	35.6	71	40 - 110	
2-Fluorobiphenyl	50.0	26.7	53	50 - 110	
2,4,6-Tribromophenol	100	106	106	40 - 125	
Terphenyl-d14	50.0	44.8	90	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	231751	4.79	168681	4.79	
Naphthalene-d8	800576	5.98	582734	5.98	
Acenaphthene-d10	531813	7.72	385162	7.71	
Phenanthrene-d10	943532	9.2	672932	9.2	
Chrysene-d12	1141073	11.85	722963	11.85	
Perylene-d12	1183025	13.24	584124	13.24	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW18D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-04	File ID:	5LC020.D
Sampled:	11/30/06 10:10	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 19:27
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW18D-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-04	File ID:	5LC020.D
Sampled:	11/30/06 10:10	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 19:27
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	42.4	42	20 - 110	
Phenol-d5	100	26.2	26	10 - 94	
Nitrobenzene-d5	50.0	35.7	71	40 - 110	
2-Fluorobiphenyl	50.0	31.5	63	50 - 110	
2,4,6-Tribromophenol	100	88.5	88	40 - 125	
Terphenyl-d14	50.0	39.5	79	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	191338	4.79	168681	4.79	
Naphthalene-d8	648020	5.98	582734	5.98	
Acenaphthene-d10	432219	7.71	385162	7.71	
Phenanthrene-d10	772275	9.2	672932	9.2	
Chrysene-d12	898343	11.85	722963	11.85	
Perylene-d12	925647	13.24	584124	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW18S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-05	File ID:	5LC021.D
Sampled:	11/30/06 12:07	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 19:51
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW18S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-05	File ID:	5LC021.D
Sampled:	11/30/06 12:07	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 19:51
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	36.1	36	20 - 110	
Phenol-d5	100	23.5	24	10 - 94	
Nitrobenzene-d5	50.0	30.4	61	40 - 110	
2-Fluorobiphenyl	50.0	29.8	60	50 - 110	
2,4,6-Tribromophenol	100	95.7	96	40 - 125	
Terphenyl-d14	50.0	45.2	90	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	188956	4.79	168681	4.79	
Naphthalene-d8	635647	5.98	582734	5.98	
Acenaphthene-d10	431996	7.72	385162	7.71	
Phenanthrene-d10	787145	9.2	672932	9.2	
Chrysene-d12	987826	11.85	722963	11.85	
Perylene-d12	1041936	13.24	584124	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW20S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-06	File ID:	5LC022.D
Sampled:	11/30/06 13:45	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 20:15
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW20S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-06	File ID:	5LC022.D
Sampled:	11/30/06 13:45	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 20:15
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3´-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	34.6	35	20 - 110	
Phenol-d5	100	23.0	23	10 - 94	
Nitrobenzene-d5	50.0	31.3	63	40 - 110	
2-Fluorobiphenyl	50.0	27.8	56	50 - 110	
2,4,6-Tribromophenol	100	83.5	83	40 - 125	
Terphenyl-d14	50.0	38.2	76	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	212018	4.79	168681	4.79	
Naphthalene-d8	703711	5.98	582734	5.98	
Acenaphthene-d10	469573	7.72	385162	7.71	
Phenanthrene-d10	845075	9.2	672932	9.2	
Chrysene-d12	1013138	11.85	722963	11.85	
Perylene-d12	1060801	13.24	584124	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW27S-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-07	File ID:	5LC023.D
Sampled:	11/30/06 11:15	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 20:39
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW27S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-07	File ID:	5LC023.D
Sampled:	11/30/06 11:15	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 20:39
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3´-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	36.8	37	20 - 110	
Phenol-d5	100	23.2	23	10 - 94	
Nitrobenzene-d5	50.0	32.2	64	40 - 110	
2-Fluorobiphenyl	50.0	26.6	53	50 - 110	
2,4,6-Tribromophenol	100	79.5	79	40 - 125	
Terphenyl-d14	50.0	36.6	73	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	216943	4.79	168681	4.79	
Naphthalene-d8	734442	5.98	582734	5.98	
Acenaphthene-d10	498028	7.72	385162	7.71	
Phenanthrene-d10	900486	9.2	672932	9.2	
Chrysene-d12	1058837	11.85	722963	11.85	
Perylene-d12	1092867	13.24	584124	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

USGS-SSMW45-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-09	File ID:	5LC024.D
Sampled:	11/30/06 15:10	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 21:03
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

USGS-SSMW45-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-09	File ID:	5LC024.D
Sampled:	11/30/06 15:10	Prepared:	12/07/06 11:00	Analyzed:	12/08/06 21:03
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	U
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	U
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3´-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	U
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	35.3	35	20 - 110	
Phenol-d5	100	22.7	23	10 - 94	
Nitrobenzene-d5	50.0	31.7	63	40 - 110	
2-Fluorobiphenyl	50.0	26.5	53	50 - 110	
2,4,6-Tribromophenol	100	75.9	76	40 - 125	
Terphenyl-d14	50.0	38.9	78	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	208576	4.79	168681	4.79	
Naphthalene-d8	699494	5.98	582734	5.98	
Acenaphthene-d10	462910	7.72	385162	7.71	
Phenanthrene-d10	813566	9.2	672932	9.2	
Chrysene-d12	938327	11.85	722963	11.85	
Perylene-d12	994715	13.24	584124	13.24	

PESTICIDES ANALYSIS DATA SHEET

JAX47-DU01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-10	File ID:	9LBA019-0
Sampled:	12/01/06 00:00	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 18:09
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-85-7	beta-BHC	1	0.28	
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.010	JP
1024-57-3	Heptachlor epoxide	1	0.073	P
NA	Chlordane-gamma	1	0.25	
NA	Chlordane-alpha	1	0.16	
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
72-54-8	4,4'-DDD	1	0.54	
33213-65-9	Endosulfan II	1	0.007	JP
50-29-3	4,4'-DDT	1	0.38	
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.006	JP
8001-35-2	Toxaphene	1	1.0	U
60-57-1	Dieldrin	1	0.034	J
72-20-8	Endrin	1	0.005	JP
7421-93-4	Endrin aldehyde	1	0.050	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.554	55	25 - 140	
DBC	1.00	0.720	72	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-DU01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-10RE1	File ID:	9A5A012-0
Sampled:	12/01/06 00:00	Prepared:	12/07/06 11:12	Analyzed:	01/05/07 18:24
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00142 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	10	2.0	D
58-89-9	gamma-BHC	10	2.5	D
319-86-8	delta-BHC	10	1.7	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW10S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-03	File ID:	9LBA011A-0
Sampled:	11/30/06 16:15	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 14:41
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.660	66	25 - 140	
DBC	1.00	0.760	76	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW13D-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-11	File ID:	9LBA020-0
Sampled:	12/01/06 10:45	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 18:35
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.003	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.31	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.621	62	25 - 140	
DBC	1.00	0.723	72	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-12	File ID:	9LBA021-0
Sampled:	12/01/06 09:30	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 19:01
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-85-7	beta-BHC	1	0.32	
76-44-8	Heptachlor	1	0.028	JP
309-00-2	Aldrin	1	0.011	JP
1024-57-3	Heptachlor epoxide	1	0.082	P
NA	Chlordane-gamma	1	0.32	
NA	Chlordane-alpha	1	0.28	P
72-55-9	4,4'-DDE	1	0.004	J
959-98-8	Endosulfan I	1	0.011	J
60-57-1	Dieldrin	1	0.036	J
72-54-8	4,4'-DDD	1	0.69	
33213-65-9	Endosulfan II	1	0.008	JP
50-29-3	4,4'-DDT	1	0.49	
72-43-5	Methoxychlor	1	0.011	JP
1031-07-8	Endosulfan sulfate	1	0.006	J
53494-70-5	Endrin ketone	1	0.017	JP
8001-35-2	Toxaphene	1	1.0	U
72-20-8	Endrin	1	0.006	JP
7421-93-4	Endrin aldehyde	1	0.050	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.528	53	25 - 140	
DBC	1.00	0.707	71	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-12RE1	File ID:	9LGA045-0
Sampled:	12/01/06 09:30	Prepared:	12/07/06 11:12	Analyzed:	12/13/06 08:47
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00142 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	10	2.7	D
58-89-9	gamma-BHC	10	3.3	D
319-86-8	delta-BHC	10	2.3	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW18D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-04	File ID:	9LBA012-0
Sampled:	11/30/06 10:10	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 15:07
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.662	66	25 - 140	
DBC	1.00	0.781	78	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW18S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-05	File ID:	9LBA013-0
Sampled:	11/30/06 12:07	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 15:33
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.661	66	25 - 140	
DBC	1.00	0.771	77	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW20S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-06	File ID:	9LBA015-0
Sampled:	11/30/06 13:45	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 16:25
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.009	J
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.004	JP
NA	Chlordane-gamma	1	0.016	J
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.047	J
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.003	JP
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.659	66	25 - 140	
DBC	1.00	0.771	77	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW27S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-07	File ID:	9LBA016-0
Sampled:	11/30/06 11:15	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 16:51
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.21	
58-89-9	gamma-BHC	1	0.33	
319-85-7	beta-BHC	1	0.16	
319-86-8	delta-BHC	1	0.41	
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.004	JP
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.001	J
33213-65-9	Endosulfan II	1	0.013	J
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.006	JP
8001-35-2	Toxaphene	1	1.0	U
NA	Chlordane-alpha	1	0.002	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.582	58	25 - 140	
DBC	1.00	0.758	76	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-R01-113006

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610359-08 File ID: 9LBA017-0

Sampled: 11/30/06 15:01 Prepared: 12/07/06 11:12 Analyzed: 12/08/06 17:17

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4′-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4′-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4′-DDT	1	0.012	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U
60-57-1	Dieldrin	1	0.002	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.672	67	25 - 140	
DBC	1.00	0.771	77	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

USGS-SSMW45-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-09	File ID:	9LBA018-0
Sampled:	11/30/06 15:10	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 17:43
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L07002 Sequence: BA00088 Calibration: 0612019 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4′-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4′-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4′-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.592	59	25 - 140	
DBC	1.00	0.707	71	30 - 135	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-010

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-R01-113006	B610359-08	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/5/2006	12/14/2006	4	9	13
M	UG/L	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/5/2006	12/14/2006	4	9	13
M	UG/L	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/5/2006	12/14/2006	4	9	13
M	UG/L	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
MF	UG/L	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
MF	UG/L	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
OS	%	JAX47-937MW2S-113006	B610359-01RE1	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-R01-113006	B610359-08	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	%	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	%	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	UG/L	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	UG/L	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	UG/L	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-937MW2S-113006	B610359-01RE1	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	UG/L	JAX47-MW13S-120106	B610359-12RE1	NM	12/1/2006	12/7/2006	12/13/2006	6	6	12
OS	UG/L	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-R01-113006	B610359-08	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-DU01-120106	B610359-10RE1	NM	12/1/2006	12/7/2006	1/5/2007	6	29	35
OV	%	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	Trip Blank #2	B610359-13	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	%	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	%	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	%	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-937MW2S-113006	B610359-01RE1	NM	11/30/2006	12/6/2006	12/15/2006	6	9	15

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	%	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-937MW2S-113006	B610359-01RE1	NM	11/30/2006	12/6/2006	12/15/2006	6	9	15
OV	UG/L	Trip Blank #2	B610359-13	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	UG/L	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	UG/L	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	UG/L	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-010

Lab Sample ID	Client Sample ID
B610359-01	JAX47-937MW2S-113006
B610359-02	JAX47-937MW6D-113006
B610359-03	JAX47-937MW10S-113006
B610359-04	JAX47-MW18D-113006
B610359-05	JAX47-MW18S-113006
B610359-06	JAX47-MW20S-113006
B610359-07	JAX47-MW27S-113006
B610359-08	JAX47-R01-113006
B610359-09	JAX47-USGS-SSMW45-113006
B610359-10	JAX47-DU01-120106
B610359-11	JAX47-MW13D-120106
B610359-12	JAX47-MW13S-120106
B610359-13	Trip Blank #2

Semi-volatile

Method: The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8270c. Water samples were received into the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, the Matrix Spike and Matrix Spike Duplicate was performed on an alternative sample not related to this project.
- The analysis of the Laboratory Control Standard, Matrix Spike and Matrix Spike Duplicate had positive results that exceeded the DoD QSM established control limits. The corresponding samples did not show positive results for those compounds, therefore the data was accepted.
- The surrogate 2-Fluorobiphenyl for sample ID JAX-MW13D-120106 was outside of the DoD QSM established control limits. The remaining surrogates were within the established control limits.
- Several compounds did not meet the specified control limits for the Continuing Calibration Check Standard. Data was accepted on criteria that all CCC and SPCC compounds passed.

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081A. Waters were received into the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, Matrix Spike and Matrix Spike Duplicate was performed on an alternative sample not related to this project.
- Laboratory Control Standard for Endrin Ketone on the secondary column was outside the DoD QSM established control limits however it is within the marginal exceedance limit.
- Matrix Spike was outside the DoD QSM established limits for Endrin Ketone but was in the marginal exceedance limit.
- JAX47-937MW2S-113 for the surrogate DBC was outside the DoD QSM established control limits due to sample matrix.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:
Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.13 13:03:48 -05'00'

Christina M. Tompkins

Volatiles

Method: The samples were analyzed by USEPA Method 8260B (VOA vial field sampling followed by purge and trap then capillary column GC/MS). Water samples were received into the laboratory in satisfactory condition.

Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, one of the Matrix Spike and Matrix Spike Duplicate was performed on an alternative sample not related to this project.
- JAX47-937MW6D-113006 was submitted for analysis but was not on the chain of custody. The sample was analyzed per client request.
- JAX47-937MW2S-113006 was analyzed within the method specified hold time. Cis-1,2 dichloroethene had a result that was above the high point of the calibration curve. The compound was re-analyzed at dilution, however was outside of the method specified hold time.
- The Matrix Spike and Matrix Spike Duplicate had several compounds that were outside the DoD QSM control limits. Data was accepted based on an acceptable Laboratory Control Standard and precision data.
- The Laboratory Control Standard for dichlorodifluoromethane and chloromethane exceeded the DoD QSM upper control limits. Results for these compounds should be considered bias high. Samples associated with this laboratory control standard did not have positive results for these compounds.
- Several compounds did not meet the specified control limits for the Continuing Calibration Check Standard. Data was accepted on criteria that all CCC and SPCC compounds passed.

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Water samples were received into the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No: **CTO 0047**	Turn Around Time: **Standard**	Field Ops Leader: **Charles Metz**	Carrier/Waybill No.	Point of Contact: **Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chuck Metz	12/01/2006	15:50	**Hand Deliver**	12/01/2006	16:50
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
				12/1/06	16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

METHOD DETECTION AND REPORTING LIMITS

EPA 8260B

Laboratory: ENCO Jacksonville **SDG:** BR006-010

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JVGCMS1

Analyte	MDL	MRL	Units
Dichlorodifluoromethane	0.300	1	ug/L
Chloromethane	0.300	1	ug/L
Vinyl chloride	0.400	1	ug/L
Bromomethane	0.600	1	ug/L
Chloroethane	0.300	1	ug/L
Trichlorofluoromethane	0.300	1	ug/L
1,1-Dichloroethene	0.200	1	ug/L
Acetone	2	5	ug/L
Carbon disulfide	0.900	5	ug/L
Methylene Chloride	2	2	ug/L
Methyl-tert-Butyl Ether	0.200	1	ug/L
trans-1,2-Dichloroethene	0.200	1	ug/L
1,1-Dichloroethane	0.200	1	ug/L
2-Butanone	2	5	ug/L
cis-1,2-Dichloroethene	0.200	1	ug/L
Chloroform	0.200	1	ug/L
1,1,1-Trichloroethane	0.300	1	ug/L
Carbon Tetrachloride	0.300	1	ug/L
1,2-Dichloroethane	0.100	1	ug/L
Benzene	0.200	1	ug/L
Trichloroethene	0.300	1	ug/L
1,2-Dichloropropane	0.400	1	ug/L
Bromodichloromethane	0.200	0.400	ug/L
cis-1,3-Dichloropropene	0.100	0.200	ug/L
4-Methyl-2-pentanone	2	5	ug/L
Toluene	0.200	1	ug/L
trans-1,3-Dichloropropene	0.200	0.200	ug/L
1,1,2-Trichloroethane	0.300	1	ug/L
Tetrachloroethene	0.300	1	ug/L
2-Hexanone	0.600	5	ug/L
Dibromochloromethane	0.200	0.200	ug/L
1,2-Dibromoethane	0.100	1	ug/L
Chlorobenzene	0.200	1	ug/L
Ethylbenzene	0.300	1	ug/L
m,p-Xylenes	0.300	2	ug/L
o-Xylene	0.200	1	ug/L
Styrene	0.100	1	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260B

Laboratory: ENCO Jacksonville **SDG:** BR006-010

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JVGCMS1

Analyte	MDL	MRL	Units
Bromoform	0.200	1	ug/L
Isopropylbenzene	0.100	1	ug/L
1,1,2,2-Tetrachloroethane	0.200	0.200	ug/L
1,3-Dichlorobenzene	0.200	1	ug/L
1,4-Dichlorobenzene	0.100	1	ug/L
1,2-Dichlorobenzene	0.200	1	ug/L
1,2-Dibromo-3-chloropropane	0.300	1	ug/L
1,2,4-Trichlorobenzene	0.100	1	ug/L
Freon 113	0.580	1	ug/L
Xylenes (Total)	0.300	1	ug/L
Cyclohexane	0.450	1	ug/L
Diethyl ether	0.540	1	ug/L
Methyl acetate	0.510	1	ug/L
Methyl cyclohexane	0.550	1	ug/L

HOLDING TIME SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-937MW2S-113006	11/30/06 16:10	12/01/06 16:50	12/06/06 11:00	5.78	NA	12/07/06 10:28	7.00	14.00	
JAX47-937MW2S-113006	11/30/06 16:10	12/01/06 16:50	12/06/06 11:00	5.78	NA	12/15/06 19:24	15.00	14.00	*
JAX47-937MW6D-113006	11/30/06 14:50	12/01/06 16:50	12/06/06 11:00	5.84	NA	12/07/06 05:21	7.00	14.00	
JAX47-937MW10S-113006	11/30/06 16:15	12/01/06 16:50	12/06/06 11:00	5.78	NA	12/07/06 05:52	7.00	14.00	
JAX47-MW18D-113006	11/30/06 10:10	12/01/06 16:50	12/06/06 11:00	6.03	NA	12/07/06 06:23	7.00	14.00	
JAX47-MW18S-113006	11/30/06 12:07	12/01/06 16:50	12/06/06 11:00	5.95	NA	12/07/06 06:53	7.00	14.00	
JAX47-MW20S-113006	11/30/06 13:45	12/01/06 16:50	12/06/06 11:00	5.89	NA	12/07/06 07:24	7.00	14.00	
JAX47-MW27S-113006	11/30/06 11:15	12/01/06 16:50	12/06/06 11:00	5.99	NA	12/07/06 07:54	7.00	14.00	
USGS-SSMW45-113006	11/30/06 15:10	12/01/06 16:50	12/06/06 11:00	5.83	NA	12/07/06 08:25	7.00	14.00	
JAX47-DU01-120106	12/01/06 00:00	12/01/06 16:50	12/06/06 11:00	5.46	NA	12/07/06 08:56	6.00	14.00	
JAX47-MW13D-120106	12/01/06 10:45	12/01/06 16:50	12/06/06 11:00	5.01	NA	12/07/06 09:26	6.00	14.00	
JAX47-MW13S-120106	12/01/06 09:30	12/01/06 16:50	12/06/06 11:00	5.06	NA	12/07/06 09:57	6.00	14.00	
Trip Blank #2	12/01/06 00:00	12/01/06 16:50	12/06/06 11:00	5.46	NA	12/07/06 04:51	6.00	14.00	

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07013 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L07013-BLK1	7LB030.D	12/06/06 11:00	
Blank	6L07013-BLK2	7LJ004.D	12/06/06 11:00	
Blank	6L07013-BLK2	7LC004.D	12/06/06 11:00	
LCS	6L07013-BS1	7LB031.D	12/06/06 11:00	
MW-4	6L07013-MS1	7LB032.D	12/06/06 11:00	
MW-4	6L07013-MSD1	7LB033.D	12/06/06 11:00	
JAX47-937MW2S-113006	B610359-01	7LB047.D	12/06/06 11:00	
JAX47-937MW2S-113006	B610359-01RE1	7LJ020.D	12/06/06 11:00	Added 12/20/2006 by JDB
JAX47-937MW6D-113006	B610359-02	7LB037.D	12/06/06 11:00	
JAX47-937MW10S-113006	B610359-03	7LB038.D	12/06/06 11:00	
JAX47-MW18D-113006	B610359-04	7LB039.D	12/06/06 11:00	
JAX47-MW18S-113006	B610359-05	7LB040.D	12/06/06 11:00	
JAX47-MW20S-113006	B610359-06	7LB041.D	12/06/06 11:00	
JAX47-MW27S-113006	B610359-07	7LB042.D	12/06/06 11:00	
USGS-SSMW45-113006	B610359-09	7LB043.D	12/06/06 11:00	
JAX47-DU01-120106	B610359-10	7LB044.D	12/06/06 11:00	
JAX47-MW13D-120106	B610359-11	7LB045.D	12/06/06 11:00	
JAX47-MW13S-120106	B610359-12	7LB046.D	12/06/06 11:00	
Trip Blank #2	B610359-13	7LB036.D	12/06/06 11:00	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L07013-BLK1	File ID:	7LB030.D
Prepared:	12/06/06 11:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 01:47	Instrument:	JVGCMS1		
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	0.4	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
110-82-7	Cyclohexane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-20-9	Methyl acetate	1.0	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L07013-BLK1	File ID:	7LB030.D
Prepared:	12/06/06 11:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 01:47	Instrument:	JVGCMS1		
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-87-2	Methyl cyclohexane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.260	J
60-29-7	Diethyl ether	1.0	U
76-13-1	Freon 113	1.0	U
NA	Xylenes (Total)	1.0	U

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
76-14-2	Freon 114		EST. CONC. (ug/L)	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.3	93	85 - 115	
Toluene-d8	50.0	47.8	96	85 - 120	
4-Bromofluorobenzene	50.0	46.2	92	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	352720	11.44	345714	11.43	
1,4-Difluorobenzene	796159	12.1	782949	12.09	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L07013-BLK1	File ID:	7LB030.D
Prepared:	12/06/06 11:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 01:47	Instrument:	JVGCMS1		
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5	863039	15.28	858966	15.28	
1,4-Dichlorobenzene-d4	397172	17.46	390110	17.46	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L07013-BLK2	File ID:	7LJ004.D
Prepared:	12/06/06 11:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 16:19	Instrument:	JVGCMS1		
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	2.22	J
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	0.4	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
110-82-7	Cyclohexane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-20-9	Methyl acetate	1.0	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L07013-BLK2	File ID:	7LJ004.D
Prepared:	12/06/06 11:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 16:19	Instrument:	JVGCMS1		
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-87-2	Methyl cyclohexane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
60-29-7	Diethyl ether	1.0	U
76-13-1	Freon 113	1.0	U
NA	Xylenes (Total)	1.0	U

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
76-14-2	Freon 114		EST. CONC. (ug/L)	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.6	95	85 - 115	
Toluene-d8	50.0	46.8	94	85 - 120	
4-Bromofluorobenzene	50.0	41.7	83	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	278836	11.44	286819	11.44	
1,4-Difluorobenzene	614214	12.1	615674	12.1	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L07013-BLK2	File ID:	7LJ004.D
Prepared:	12/06/06 11:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/07/06 16:19	Instrument:	JVGCMS1		
Batch:	6L07013	Sequence:	BA00112	Calibration:	0612011

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5	548612	15.28	559739	15.28	
1,4-Dichlorobenzene-d4	208439	17.46	226499	17.46	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-4

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07013
Laboratory ID: 6L07013-MS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-4

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	ND	36.8	184 *	30 - 155
Chloromethane	20.0	ND	30.7	154 *	40 - 125
Vinyl chloride	20.0	ND	30.2	151 *	50 - 145
Bromomethane	20.0	-4.73	31.8	182 *	30 - 145
Chloroethane	20.0	ND	27.4	137 *	60 - 135
Trichlorofluoromethane	20.0	ND	27.3	137	60 - 145
1,1-Dichloroethene	20.0	ND	23.6	118	70 - 130
Acetone	50.0	ND	55.6	111	40 - 140
Carbon disulfide	20.0	ND	22.2	111	35 - 160
Methylene Chloride	20.0	-1.47	24.1	128	55 - 140
Methyl-tert-Butyl Ether	20.0	ND	24.9	125	65 - 125
trans-1,2-Dichloroethene	20.0	ND	25.4	127	60 - 140
1,1-Dichloroethane	20.0	ND	23.2	116	70 - 135
2-Butanone	50.0	ND	60.0	120	30 - 150
cis-1,2-Dichloroethene	20.0	ND	24.3	122	70 - 125
Chloroform	20.0	ND	21.8	109	65 - 135
1,1,1-Trichloroethane	20.0	ND	22.1	110	65 - 130
Carbon Tetrachloride	20.0	ND	21.6	108	65 - 140
1,2-Dichloroethane	20.0	ND	20.3	102	70 - 130
Benzene	20.0	ND	24.0	120	80 - 120
Trichloroethene	20.0	ND	22.6	113	70 - 125
1,2-Dichloropropane	20.0	ND	23.2	116	75 - 125
Bromodichloromethane	20.0	ND	21.1	105	75 - 120
cis-1,3-Dichloropropene	20.0	ND	23.2	116	70 - 130
4-Methyl-2-pentanone	50.0	ND	57.4	115	60 - 135
Toluene	20.0	ND	21.3	106	75 - 120
trans-1,3-Dichloropropene	20.0	ND	21.6	108	55 - 140
1,1,2-Trichloroethane	20.0	ND	21.2	106	75 - 125
Tetrachloroethene	20.0	ND	14.7	74	45 - 150
2-Hexanone	50.0	ND	48.5	97	55 - 130
Dibromochloromethane	20.0	ND	20.8	104	0 - 200
1,2-Dibromoethane	20.0	ND	22.1	111	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-4

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07013
Laboratory ID: 6L07013-MS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-4

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Chlorobenzene	20.0	ND	21.4	107	80 - 120
Ethylbenzene	20.0	ND	20.6	103	75 - 125
m,p-Xylenes	40.0	ND	42.5	106	75 - 130
o-Xylene	20.0	ND	20.3	101	80 - 120
Styrene	20.0	ND	20.5	103	65 - 135
Bromoform	20.0	ND	21.0	105	70 - 130
Isopropylbenzene	20.0	ND	22.4	112	75 - 125
1,1,2,2-Tetrachloroethane	20.0	ND	21.1	106	65 - 130
1,3-Dichlorobenzene	20.0	ND	20.3	102	75 - 125
1,4-Dichlorobenzene	20.0	ND	21.3	106	75 - 125
1,2-Dichlorobenzene	20.0	ND	20.7	103	70 - 120
1,2-Dibromo-3-chloropropane	20.0	ND	18.7	94	50 - 130
1,2,4-Trichlorobenzene	20.0	ND	20.6	103	65 - 135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	35.9	180 *	3	30	30 - 155
Chloromethane	20.0	31.7	158 *	3	30	40 - 125
Vinyl chloride	20.0	30.4	152 *	0.4	30	50 - 145
Bromomethane	20.0	31.6	182 *	0.5	30	30 - 145
Chloroethane	20.0	26.6	133	3	30	60 - 135
Trichlorofluoromethane	20.0	27.4	137	0.3	30	60 - 145
1,1-Dichloroethene	20.0	23.0	115	2	30	70 - 130
Acetone	50.0	50.5	101	10	30	40 - 140
Carbon disulfide	20.0	21.8	109	2	30	35 - 160
Methylene Chloride	20.0	24.4	129	0.9	30	55 - 140
Methyl-tert-Butyl Ether	20.0	25.0	125	0.3	30	65 - 125
trans-1,2-Dichloroethene	20.0	24.7	124	3	30	60 - 140
1,1-Dichloroethane	20.0	24.4	122	5	30	70 - 135
2-Butanone	50.0	55.1	110	8	30	30 - 150
cis-1,2-Dichloroethene	20.0	24.9	125	2	30	70 - 125
Chloroform	20.0	22.4	112	3	30	65 - 135

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-4

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07013
Laboratory ID: 6L07013-MSD1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-4

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	20.0	22.6	113	2	30	65 - 130
Carbon Tetrachloride	20.0	21.3	107	1	30	65 - 140
1,2-Dichloroethane	20.0	21.0	105	3	30	70 - 130
Benzene	20.0	24.1	120	0.2	30	80 - 120
Trichloroethene	20.0	23.4	117	3	30	70 - 125
1,2-Dichloropropane	20.0	24.3	121	4	30	75 - 125
Bromodichloromethane	20.0	22.3	112	6	30	75 - 120
cis-1,3-Dichloropropene	20.0	23.7	118	2	30	70 - 130
4-Methyl-2-pentanone	50.0	52.6	105	9	30	60 - 135
Toluene	20.0	21.5	108	1	30	75 - 120
trans-1,3-Dichloropropene	20.0	23.1	116	7	30	55 - 140
1,1,2-Trichloroethane	20.0	22.4	112	6	30	75 - 125
Tetrachloroethene	20.0	14.9	75	1	30	45 - 150
2-Hexanone	50.0	47.3	95	2	30	55 - 130
Dibromochloromethane	20.0	21.0	105	1	200	0 - 200
1,2-Dibromoethane	20.0	22.3	112	0.8	30	80 - 120
Chlorobenzene	20.0	22.6	113	6	30	80 - 120
Ethylbenzene	20.0	21.0	105	2	30	75 - 125
m,p-Xylenes	40.0	41.9	105	2	30	75 - 130
o-Xylene	20.0	22.3	111	9	30	80 - 120
Styrene	20.0	20.7	103	0.6	30	65 - 135
Bromoform	20.0	20.6	103	2	30	70 - 130
Isopropylbenzene	20.0	22.4	112	0.3	30	75 - 125
1,1,2,2-Tetrachloroethane	20.0	21.7	109	3	30	65 - 130
1,3-Dichlorobenzene	20.0	20.4	102	0.6	30	75 - 125
1,4-Dichlorobenzene	20.0	21.3	106	0.09	30	75 - 125
1,2-Dichlorobenzene	20.0	21.3	107	3	30	70 - 120
1,2-Dibromo-3-chloropropane	20.0	20.0	100	6	30	50 - 130
1,2,4-Trichlorobenzene	20.0	21.1	105	2	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00112	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L07013-BLK1)			Lab File ID: 7LB030.D		Analyzed: 12/07/06 01:47			
Dibromofluoromethane	50.0	93	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	92	75 - 120	16.41	16.40833	0.0017	+/-0.5	
Trip Blank #2 (B610359-13)			Lab File ID: 7LB036.D		Analyzed: 12/07/06 04:51			
Dibromofluoromethane	50.0	94	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	95	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-937MW6D-113006 (B610359-02)			Lab File ID: 7LB037.D		Analyzed: 12/07/06 05:21			
Dibromofluoromethane	50.0	96	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	99	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	94	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-937MW10S-113006 (B610359-03)			Lab File ID: 7LB038.D		Analyzed: 12/07/06 05:52			
Dibromofluoromethane	50.0	98	85 - 115	10.89	10.89	0.0000	+/-0.5	
Toluene-d8	50.0	99	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	95	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-MW18D-113006 (B610359-04)			Lab File ID: 7LB039.D		Analyzed: 12/07/06 06:23			
Dibromofluoromethane	50.0	96	85 - 115	10.89	10.89	0.0000	+/-0.5	
Toluene-d8	50.0	98	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	95	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-MW18S-113006 (B610359-05)			Lab File ID: 7LB040.D		Analyzed: 12/07/06 06:53			
Dibromofluoromethane	50.0	97	85 - 115	10.89	10.89	0.0000	+/-0.5	
Toluene-d8	50.0	100	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	98	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-MW20S-113006 (B610359-06)			Lab File ID: 7LB041.D		Analyzed: 12/07/06 07:24			
Dibromofluoromethane	50.0	97	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	100	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	96	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-MW27S-113006 (B610359-07)			Lab File ID: 7LB042.D		Analyzed: 12/07/06 07:54			
Dibromofluoromethane	50.0	98	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	101	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	93	75 - 120	16.41	16.40833	0.0017	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00112	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
USGS-SSMW45-113006 (B610359-09)			Lab File ID: 7LB043.D		Analyzed: 12/07/06 08:25			
Dibromofluoromethane	50.0	104	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	99	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	93	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-DU01-120106 (B610359-10)			Lab File ID: 7LB044.D		Analyzed: 12/07/06 08:56			
Dibromofluoromethane	50.0	98	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	101	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	94	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX47-MW13D-120106 (B610359-11)			Lab File ID: 7LB045.D		Analyzed: 12/07/06 09:26			
Dibromofluoromethane	50.0	104	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	99	85 - 120	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	95	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-MW13S-120106 (B610359-12)			Lab File ID: 7LB046.D		Analyzed: 12/07/06 09:57			
Dibromofluoromethane	50.0	99	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	101	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	98	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-937MW2S-113006 (B610359-01)			Lab File ID: 7LB047.D		Analyzed: 12/07/06 10:28			
Dibromofluoromethane	50.0	105	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	104	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	98	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
Blank (6L07013-BLK2)			Lab File ID: 7LJ004.D		Analyzed: 12/07/06 16:19			
Dibromofluoromethane	50.0	95	85 - 115	10.9	10.89	0.0100	+/-0.5	
Toluene-d8	50.0	94	85 - 120	13.64	13.63	0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	83	75 - 120	16.41	16.40833	0.0017	+/-0.5	
JAX47-937MW2S-113006 (B610359-01RE1)			Lab File ID: 7LJ020.D		Analyzed: 12/15/06 19:24			
Dibromofluoromethane	50.0	95	85 - 115	10.9	10.89	0.0100	+/-0.5	
Toluene-d8	50.0	95	85 - 120	13.64	13.63	0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	81	75 - 120	16.41	16.40833	0.0017	+/-0.5	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00112	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (6L07013-BLK1)			Lab File ID: 7LB030.D			Analyzed: 12/07/06 01:47			
Pentafluorobenzene	352720	11.44	345714	11.43	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	796159	12.1	782949	12.09	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	863039	15.28	858966	15.28	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	397172	17.46	390110	17.46	102	50 - 200	0.0000	+/-0.50	
Trip Blank #2 (B610359-13)			Lab File ID: 7LB036.D			Analyzed: 12/07/06 04:51			
Pentafluorobenzene	323478	11.44	345714	11.43	94	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	756594	12.1	782949	12.09	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	826699	15.28	858966	15.28	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	365868	17.46	390110	17.46	94	50 - 200	0.0000	+/-0.50	
JAX47-937MW6D-113006 (B610359-02)			Lab File ID: 7LB037.D			Analyzed: 12/07/06 05:21			
Pentafluorobenzene	317005	11.44	345714	11.43	92	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	738953	12.1	782949	12.09	94	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	816466	15.28	858966	15.28	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	368070	17.46	390110	17.46	94	50 - 200	0.0000	+/-0.50	
JAX47-937MW10S-113006 (B610359-03)			Lab File ID: 7LB038.D			Analyzed: 12/07/06 05:52			
Pentafluorobenzene	312036	11.44	345714	11.43	90	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	721269	12.1	782949	12.09	92	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	808524	15.28	858966	15.28	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	352256	17.46	390110	17.46	90	50 - 200	0.0000	+/-0.50	
JAX47-MW18D-113006 (B610359-04)			Lab File ID: 7LB039.D			Analyzed: 12/07/06 06:23			
Pentafluorobenzene	310403	11.44	345714	11.43	90	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	716650	12.1	782949	12.09	92	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	794791	15.29	858966	15.28	93	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	361525	17.47	390110	17.46	93	50 - 200	0.0100	+/-0.50	
JAX47-MW18S-113006 (B610359-05)			Lab File ID: 7LB040.D			Analyzed: 12/07/06 06:53			
Pentafluorobenzene	304461	11.44	345714	11.43	88	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	701481	12.1	782949	12.09	90	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	763356	15.28	858966	15.28	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	352857	17.46	390110	17.46	90	50 - 200	0.0000	+/-0.50	
JAX47-MW20S-113006 (B610359-06)			Lab File ID: 7LB041.D			Analyzed: 12/07/06 07:24			
Pentafluorobenzene	290880	11.44	345714	11.43	84	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	690308	12.1	782949	12.09	88	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	775125	15.28	858966	15.28	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	344946	17.46	390110	17.46	88	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00112	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-MW27S-113006 (B610359-07)			Lab File ID: 7LB042.D			Analyzed: 12/07/06 07:54			
Pentafluorobenzene	290822	11.44	345714	11.43	84	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	681937	12.1	782949	12.09	87	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	764836	15.28	858966	15.28	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	337402	17.46	390110	17.46	86	50 - 200	0.0000	+/-0.50	
USGS-SSMW45-113006 (B610359-09)			Lab File ID: 7LB043.D			Analyzed: 12/07/06 08:25			
Pentafluorobenzene	280144	11.44	345714	11.43	81	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	673429	12.1	782949	12.09	86	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	763609	15.27	858966	15.28	89	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	333256	17.46	390110	17.46	85	50 - 200	0.0000	+/-0.50	
JAX47-DU01-120106 (B610359-10)			Lab File ID: 7LB044.D			Analyzed: 12/07/06 08:56			
Pentafluorobenzene	285006	11.43	345714	11.43	82	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	662196	12.09	782949	12.09	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	748721	15.28	858966	15.28	87	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	330999	17.46	390110	17.46	85	50 - 200	0.0000	+/-0.50	
JAX47-MW13D-120106 (B610359-11)			Lab File ID: 7LB045.D			Analyzed: 12/07/06 09:26			
Pentafluorobenzene	274033	11.44	345714	11.43	79	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	661893	12.1	782949	12.09	85	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	741125	15.28	858966	15.28	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	335575	17.46	390110	17.46	86	50 - 200	0.0000	+/-0.50	
JAX47-MW13S-120106 (B610359-12)			Lab File ID: 7LB046.D			Analyzed: 12/07/06 09:57			
Pentafluorobenzene	275864	11.43	345714	11.43	80	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	645843	12.1	782949	12.09	82	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	730203	15.28	858966	15.28	85	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	333212	17.46	390110	17.46	85	50 - 200	0.0000	+/-0.50	
JAX47-937MW2S-113006 (B610359-01)			Lab File ID: 7LB047.D			Analyzed: 12/07/06 10:28			
Pentafluorobenzene	248646	11.43	345714	11.43	72	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	594380	12.09	782949	12.09	76	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	669968	15.28	858966	15.28	78	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	305552	17.46	390110	17.46	78	50 - 200	0.0000	+/-0.50	
Blank (6L07013-BLK2)			Lab File ID: 7LJ004.D			Analyzed: 12/07/06 16:19			
Pentafluorobenzene	278836	11.44	286819	11.44	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	614214	12.1	615674	12.1	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	548612	15.28	559739	15.28	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	208439	17.46	226499	17.46	92	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00112	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-937MW2S-113006 (B610359-01RE1)			Lab File ID: 7LJ020.D			Analyzed: 12/15/06 19:24			
Pentafluorobenzene	276480	11.45	286819	11.44	96	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	597472	12.11	615674	12.1	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	537452	15.29	559739	15.28	96	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	200054	17.48	226499	17.46	88	50 - 200	0.0200	+/-0.50	

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07013
Laboratory ID: 6L07013-BS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	36.4	182 *	30 - 155
Chloromethane	20.0	27.4	137 *	40 - 125
Vinyl chloride	20.0	28.2	141	50 - 145
Bromomethane	20.0	25.0	125	30 - 145
Chloroethane	20.0	25.1	126	60 - 135
Trichlorofluoromethane	20.0	27.3	137	60 - 145
1,1-Dichloroethene	20.0	22.2	111	70 - 130
Acetone	50.0	49.8	100	40 - 140
Carbon disulfide	20.0	20.8	104	35 - 160
Methylene Chloride	20.0	22.7	114	55 - 140
Methyl-tert-Butyl Ether	20.0	22.0	110	65 - 125
trans-1,2-Dichloroethene	20.0	22.3	112	60 - 140
1,1-Dichloroethane	20.0	21.4	107	70 - 135
2-Butanone	50.0	48.4	97	30 - 150
cis-1,2-Dichloroethene	20.0	23.1	116	70 - 125
Chloroform	20.0	20.6	103	65 - 135
1,1,1-Trichloroethane	20.0	21.1	106	65 - 130
Carbon Tetrachloride	20.0	21.3	106	65 - 140
1,2-Dichloroethane	20.0	19.0	95	70 - 130
Benzene	20.0	22.6	113	80 - 120
Trichloroethene	20.0	24.0	120	70 - 125
1,2-Dichloropropane	20.0	21.7	109	75 - 125
Bromodichloromethane	20.0	19.8	99	75 - 102
cis-1,3-Dichloropropene	20.0	21.5	108	70 - 130
4-Methyl-2-pentanone	50.0	52.0	104	60 - 135
Toluene	20.0	21.1	105	75 - 120
trans-1,3-Dichloropropene	20.0	20.6	103	55 - 140
1,1,2-Trichloroethane	20.0	19.1	95	75 - 125
Tetrachloroethene	20.0	22.2	111	45 - 150
2-Hexanone	50.0	43.6	87	55 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L07013	Laboratory ID:	6L07013-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	20.0	19.2	96	61 - 118
1,2-Dibromoethane	20.0	19.7	99	80 - 120
Chlorobenzene	20.0	21.1	106	80 - 120
Ethylbenzene	20.0	20.0	100	75 - 125
m,p-Xylenes	40.0	41.6	104	75 - 130
o-Xylene	20.0	20.7	104	80 - 120
Styrene	20.0	19.0	95	65 - 135
Bromoform	20.0	18.5	93	70 - 130
Isopropylbenzene	20.0	22.8	114	75 - 125
1,1,2,2-Tetrachloroethane	20.0	17.3	86	65 - 130
1,3-Dichlorobenzene	20.0	19.3	96	75 - 125
1,4-Dichlorobenzene	20.0	20.6	103	75 - 125
1,2-Dichlorobenzene	20.0	19.5	97	70 - 120
1,2-Dibromo-3-chloropropane	20.0	18.9	95	50 - 130
1,2,4-Trichlorobenzene	20.0	19.4	97	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00112	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00112-TUN1	7LB026.D	12/06/06 23:44
Calibration Check	BA00112-CCV1	7LB027.D	12/07/06 00:14
Blank	6L07013-BLK1	7LB030.D	12/07/06 01:47
LCS	6L07013-BS1	7LB031.D	12/07/06 02:17
MW-4	6L07013-MS1	7LB032.D	12/07/06 02:48
MW-4	6L07013-MSD1	7LB033.D	12/07/06 03:18
Trip Blank #2	B610359-13	7LB036.D	12/07/06 04:51
JAX47-937MW6D-113006	B610359-02	7LB037.D	12/07/06 05:21
JAX47-937MW10S-113006	B610359-03	7LB038.D	12/07/06 05:52
JAX47-MW18D-113006	B610359-04	7LB039.D	12/07/06 06:23
JAX47-MW18S-113006	B610359-05	7LB040.D	12/07/06 06:53
JAX47-MW20S-113006	B610359-06	7LB041.D	12/07/06 07:24
JAX47-MW27S-113006	B610359-07	7LB042.D	12/07/06 07:54
USGS-SSMW45-113006	B610359-09	7LB043.D	12/07/06 08:25
JAX47-DU01-120106	B610359-10	7LB044.D	12/07/06 08:56
JAX47-MW13D-120106	B610359-11	7LB045.D	12/07/06 09:26
JAX47-MW13S-120106	B610359-12	7LB046.D	12/07/06 09:57
JAX47-937MW2S-113006 ✓	B610359-01	7LB047.D	12/07/06 10:28
Blank	6L07013-BLK2	7LC004.D	12/07/06 16:19
Blank	6L07013-BLK2	7LJ004.D	12/07/06 16:19
MS Tune	BA00112-TUN2	7LJ001.D	12/15/06 09:39
Calibration Check	BA00112-CCV2	7LJ002.D	12/15/06 10:10
JAX47-937MW2S-113006	B610359-01RE1	7LJ020.D	12/15/06 19:24

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00102	Instrument:	JVGCMS1
Calibration:	0612011		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6L0029	8260 Calibration standard #1 (0.0002mg/L)	BA00102-CAL1	7KY005.D	11/30/06 16:52
B6L0031	8260 Calibration standard #2(0.001mg/L)	BA00102-CAL2	7KY007.D	11/30/06 17:54
B6L0032	8260 Calibration standard #3(0.005mg/L)	BA00102-CAL3	7KY008.D	11/30/06 18:25
B6L0033	8260 Calibration standard #4(0.020mg/L)	BA00102-CAL4	7KY009.D	11/30/06 18:55
B6L0037	8260 Calibration standard #5(0.050mg/L)	BA00102-CAL5	7KY010.D	11/30/06 19:26
B6L0036	8260 Calibration standard #6(0.100mg/L)	BA00102-CAL6	7KY012.D	11/30/06 20:27
B6L0035	8260 Calibration standard #7(0.200mg/L)	BA00102-CAL7	7KY015.D	11/30/06 21:59

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	0.2	0	1	0.4527052	5	0.4385709	20	0.5180889	50	0.5412341	100	0.4731216
Chloromethane	0.2	0	1	0.9004876	5	0.970924	20	0.9544188	50	1.004201	100	0.9882035
Vinyl chloride	0.2	0	1	0.8435794	5	0.7751133	20	0.8489353	50	0.8759871	100	0.8379553
Bromomethane	0.2	0	1	1.324246	5	0.7120602	20	0.5709026	50	0.5328988	100	0.4530427
Chloroethane	0.2	0	1	0.7522113	5	0.596223	20	0.6032934	50	0.5746812	100	0.5635746
Trichlorofluoromethane	0.2	0	1	0.8057719	5	0.888461	20	1.023145	50	1.001561	100	0.9104718
Acrolein	1	0	5	0.2432675	25	0.1884124	100	0.2159134	250	0.1969796	500	0.1858666
1,1-Dichloroethene	0.2	0	1	0.6486346	5	0.7442675	20	0.697001	50	0.6975718	100	0.6654715
Acetone	1	0	5	0.3448751	25	0.2930081	100	0.297826	250	0.2591769	500	0.2407759
Iodomethane	1	0	5	0.4393938	25	0.618348	100	0.8392478	250	0.9210181	500	0.9455904
Carbon disulfide	1	0	5	2.857694	25	2.862586	100	3.029316	250	2.902376	500	2.749817
Acetonitrile	2	0	10	0.1703897	50	0.1487251	200	0.1364299	500	0.1292897	1000	0.1212697
3-Chloropropene	0.2	0	1	1.059791	5	1.070891	20	1.229112	50	1.308025	100	1.316929
Methylene Chloride	0.2	0	1	1.467994	5	0.9940292	20	0.9176805	50	0.9153201	100	0.8884126
Acrylonitrile	1	0.6156966	5	0.5092195	25	0.4831243	100	0.5129563	250	0.4565103	500	0.4537351
Methyl-tert-Butyl Ether	0.2	0	1	2.312951	5	2.024389	20	2.114785	50	2.112303	100	1.969259
trans-1,2-Dichloroethene	0.2	0	1	0.7967139	5	0.8283642	20	0.7737983	50	0.7838383	100	0.7600927
1,1-Dichloroethane	0.2	0	1	1.861428	5	1.46014	20	1.586984	50	1.537344	100	1.49502
Vinyl acetate	1	0	5	2.233398	25	1.488247	100	1.858673	250	1.457027	500	1.270261
Isopropyl Ether	0.2	0	1	3.356399	5	3.409184	20	3.398534	50	3.292367	100	3.21945
Chloroprene	0.2	0	1	0.5302893	5	0.5554583	20	0.6155971	50	0.628601	100	0.6284106
2-Butanone	1	0	5	0.101135	25	8.173172E-02	100	9.740836E-02	250	8.773909E-02	500	7.885221E-02
cis-1,2-Dichloroethene	0.2	0	1	0.8183744	5	0.821207	20	0.8335893	50	0.8413664	100	0.8666011
2,2-Dichloropropane	0.2	0	1	1.050733	5	0.8713461	20	0.915118	50	0.878696	100	0.8363256
Propionitrile	2	0	10	0.144141	50	0.1130482	200	0.1262721	500	0.1177768	1000	0.1109099
Methacrylonitrile	2	0	10	0.7072165	50	0.6225723	200	0.6860151	500	0.6384344	1000	0.5794172
Bromochloromethane	0.2	0	1	0.3355414	5	0.4062859	20	0.3454918	50	0.346342	100	0.3258011
Chloroform	0.2	0	1	1.690506	5	1.546842	20	1.423763	50	1.470779	100	1.420618
1,1,1-Trichloroethane	0.2	0	1	1.211809	5	1.061672	20	1.07235	50	1.10444	100	1.048643
1,1-Dichloropropene	0.2	0	1	1.033798	5	1.058327	20	1.046034	50	1.096283	100	1.054003
Isobutyl alcohol	4	0	20	6.424318E-02	100	7.322675E-02	400	7.878055E-02	1000	7.303572E-02	2000	6.896568E-02

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Carbon Tetrachloride	0.2	0	1	0.4273157	5	0.375078	20	0.3851301	50	0.4176403	100	0.3950114
1,2-Dichloroethane	0.2	0	1	0.6675944	5	0.5059996	20	0.5512738	50	0.5305609	100	0.4997872
Benzene	0.2	0	1	1.413063	5	1.295651	20	1.375797	50	1.390209	100	1.347036
Trichloroethene	0.2	0	1	0.313313	5	0.2953517	20	0.2999687	50	0.3272521	100	0.3137329
1,2-Dichloropropane	0.2	0	1	0.3913603	5	0.3568954	20	0.4090993	50	0.4196903	100	0.3905292
Methyl Methacrylate	0.2	0	1	0.2286104	5	0.1905495	20	0.2421094	50	0.2525738	100	0.2387685
1,4-Dioxane	4	0	20	5.730387E-03	100	3.385931E-03	400	3.455499E-03	1000	3.411555E-03	2000	3.150756E-03
Dibromomethane	0.2	0	1	0.2802099	5	0.2265042	20	0.2545991	50	0.2432576	100	0.232115
Bromodichloromethane	0.2	0.6257632	1	0.4843603	5	0.5173915	20	0.5319154	50	0.5345409	100	0.5106716
2-Chloroethyl Vinyl Ether	1	0	5	2.117564E-02	25	5.047338E-02	100	0.1163377	250	0.1495266	500	0.1528417
cis-1,3-Dichloropropene	0.2	0.4507688	1	0.580126	5	0.5442463	20	0.5994065	50	0.6214545	100	0.5828153
4-Methyl-2-pentanone	1	0	5	4.489235E-02	25	4.047381E-02	100	5.040262E-02	250	4.597459E-02	500	4.320079E-02
Toluene	0.2	0	1	0.8322361	5	0.7228087	20	0.7611497	50	0.7709031	100	0.7327633
trans-1,3-Dichloropropene	0.2	0.3488668	1	0.5584862	5	0.4402746	20	0.4989761	50	0.5056609	100	0.4620594
Cyclohexane	0.2	0	1	1.559559	5	1.332361	20	1.394472	50	1.418223	100	1.391492
Ethyl Methacrylate	0.2	0	1	0.4369676	5	0.3960162	20	0.4784739	50	0.47325	100	0.4440635
1,1,2-Trichloroethane	0.2	0	1	0.3461616	5	0.291369	20	0.3004889	50	0.3015254	100	0.2840139
Methyl acetate	0.2	0	1	1.053884	5	0.9068596	20	0.8828904	50	0.8917693	100	0.8947374
1,3-Dichloropropane	0.2	0	1	0.6290669	5	0.555932	20	0.5875407	50	0.5837365	100	0.5514672
Methyl cyclohexane	0.2	0	1	1.228273	5	0.5823733	20	0.4903148	50	0.5012077	100	0.4732786
Tetrachloroethene	0.2	0	1	0.1777002	5	0.3312601	20	0.3192749	50	0.3468595	100	0.3458462
2-Hexanone	1	0	5	0.2461002	25	0.2542623	100	0.3272361	250	0.2970349	500	0.2665461
Dibromochloromethane	0.2	0.2906535	1	0.2603495	5	0.2739836	20	0.3117213	50	0.3203275	100	0.3051617
1,2-Dibromoethane	0.2	0	1	0.2639284	5	0.2983132	20	0.2988854	50	0.322266	100	0.2948322
Chlorobenzene	0.2	0	1	0.7063894	5	0.7472387	20	0.7607488	50	0.8036382	100	0.7746858
1,1,1,2-Tetrachloroethane	0.2	0.3022136	1	0.2435366	5	0.2132768	20	0.2614637	50	0.2761685	100	0.2622711
Ethylbenzene	0.2	0	1	0.3562327	5	0.3629354	20	0.3919429	50	0.4225946	100	0.3873192
m,p-Xylenes	0.4	0	2	0.4503264	10	0.4421989	40	0.4853094	100	0.496674	200	0.4886988
o-Xylene	0.2	0	1	0.4346371	5	0.4441399	20	0.4604771	50	0.4919662	100	0.4714157
Styrene	0.2	0	1	0.7281961	5	0.7036161	20	0.8082171	50	0.8939935	100	0.8818113
Bromoform	0.2	0	1	5.859528E-02	5	0.1462953	20	0.1617545	50	0.168585	100	0.1668081

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Isopropylbenzene	0.2	~~0~~	1	0.8571224	5	0.9697186	20	1.090855	50	1.144667	100	1.08869
1,1,2,2-Tetrachloroethane	0.2	0.4846978	1	0.3678019	5	0.3751002	20	0.4149004	50	0.4018475	100	0.3609996
Bromobenzene	0.2	~~0~~	1	0.3058773	5	0.2470437	20	0.270625	50	0.2855355	100	0.275122
1,2,3-Trichloropropane	0.2	0.5866742	1	0.4547793	5	0.4935353	20	0.5743583	50	0.5389843	100	0.4861114
trans-1,4-Dichloro-2-butene	0.2	~~0~~	1	0.1461553	5	0.142865	20	0.1517414	50	0.1363605	100	0.1273112
n-Propyl Benzene	0.2	~~0~~	1	1.484691	5	1.479836	20	1.617666	50	1.717671	100	1.623803
2-Chlorotoluene	0.2	~~0~~	1	2.245793	5	2.345773	20	2.513058	50	2.508591	100	2.405014
1,3,5-Trimethylbenzene	0.2	~~0~~	1	2.024604	5	1.88962	20	2.136336	50	2.259376	100	2.107292
4-Chlorotoluene	0.2	~~0~~	1	2.214925	5	2.007918	20	2.215175	50	2.234617	100	2.174927
tert-Butylbenzene	0.2	~~0~~	1	1.495112	5	1.477466	20	1.637827	50	1.711954	100	1.676964
Pentachloroethane	0.2		1		5		20		50		100	
1,2,4-Trimethylbenzene	0.2	~~0~~	1	1.832199	5	2.076745	20	2.243341	50	2.367686	100	2.261212
sec-Butylbenzene	0.2	~~0~~	1	2.284047	5	2.521036	20	2.768656	50	2.85426	100	2.710145
1,3-Dichlorobenzene	0.2	~~0~~	1	1.281119	5	1.114931	20	1.123647	50	1.162306	100	1.124015
4-Isopropyltoluene	0.2	~~0~~	1	1.767622	5	1.689125	20	1.984851	50	2.135973	100	2.081691
1,4-Dichlorobenzene	0.2	~~0~~	1	1.288694	5	1.063806	20	1.142237	50	1.172141	100	1.172395
n-Butyl Benzene	0.2	~~0~~	1	1.982752	5	1.982981	20	2.253824	50	2.352202	100	2.282808
1,2-Dichlorobenzene	0.2	~~0~~	1	1.03853	5	0.9791866	20	1.083838	50	1.12923	100	1.074542
1,2-Dibromo-3-chloropropane	0.2	~~0~~	1	5.946362E-02	5	9.809863E-02	20	0.1061258	50	0.1090568	100	0.1119963
1,2,4-Trichlorobenzene	0.2	~~0~~	1	0.5537312	5	0.5660412	20	0.5838868	50	0.638422	100	0.647462
Hexachlorobutadiene	0.2	~~0~~	1	0.1111629	5	0.1440078	20	0.1701205	50	0.1765023	100	0.1774448
Naphthalene	0.2	~~0~~	1	1.8197	5	1.344917	20	1.609407	50	1.682724	100	1.635245
1,2,3-Trichlorobenzene	0.2	~~0~~	1	0.586493	5	0.5401117	20	0.5677634	50	0.6050382	100	0.5748309
Diethyl ether	0.2	~~0~~	1	0.8455486	5	0.7019079	20	0.7070302	50	0.7194921	100	0.6822284
Freon 113	0.4	~~0~~	2	0.4469947	10	0.3790186	40	0.3533423	100	0.3863404	200	0.3507724
Dibromofluoromethane	50	~~0.3701885~~	50	0.354325	50	0.3547079	50	0.3605933	50	0.36206	50	0.364917
Toluene-d8	50	~~1.271092~~	50	1.307543	50	1.294722	50	1.311751	50	1.329164	50	1.353979
4-Bromofluorobenzene	50	~~0.5341534~~	50	0.5540134	50	0.5710301	50	0.559818	50	0.5710208	50	0.5968494
1,2-Dichloroethane-d4	50	~~1.117654~~	50	1.085556	50	1.004396	50	1.044627	50	0.9939997	50	0.9610773

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	200	0.5109127										
Chloromethane	200	0.974821										
Vinyl chloride	200	0.8559908										
Bromomethane	200	0.4421445										
Chloroethane	200	0.5296387										
Trichlorofluoromethane	200	0.9066765										
Acrolein	1000	0.2003366										
1,1-Dichloroethene	200	0.6622854										
Acetone	1000	0.236633										
Iodomethane	1000	0.92213										
Carbon disulfide	1000	2.468094										
Acetonitrile	2000	0.122463										
3-Chloropropene	200	1.27716										
Methylene Chloride	200	0.8645884										
Acrylonitrile	1000	0.4423922										
Methyl-tert-Butyl Ether	200	1.958143										
trans-1,2-Dichloroethene	200	0.7593701										
1,1-Dichloroethane	200	1.441537										
Vinyl acetate	1000	~~1.88214~~										
Isopropyl Ether	200	3.0802										
Chloroprene	200	0.6310418										
2-Butanone	1000	8.042822E-02										
cis-1,2-Dichloroethene	200	0.8411498										
2,2-Dichloropropane	200	0.7913921										
Propionitrile	2000	0.1104053										
Methacrylonitrile	2000	0.5437753										
Bromochloromethane	200	0.3097922										
Chloroform	200	1.387334										
1,1,1-Trichloroethane	200	1.028823										
1,1-Dichloropropene	200	1.045315										
Isobutyl alcohol	4000	6.838683E-02										

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Carbon Tetrachloride	200	0.3974334										
1,2-Dichloroethane	200	0.4949146										
Benzene	200	1.321551										
Trichloroethene	200	0.302139										
1,2-Dichloropropane	200	0.3860918										
Methyl Methacrylate	200	0.2566334										
1,4-Dioxane	4000	3.317532E-03										
Dibromomethane	200	0.2383189										
Bromodichloromethane	200	0.5222266										
2-Chloroethyl Vinyl Ether	1000	0.171795										
cis-1,3-Dichloropropene	200	0.5933154										
4-Methyl-2-pentanone	1000	4.695378E-02										
Toluene	200	0.7334864										
trans-1,3-Dichloropropene	200	0.4576566										
Cyclohexane	200	1.364602										
Ethyl Methacrylate	200	0.457751										
1,1,2-Trichloroethane	200	0.2805485										
Methyl acetate	200	0.7995889										
1,3-Dichloropropane	200	0.5410367										
Methyl cyclohexane	200	0.4760751										
Tetrachloroethene	200	~~0.207303~~										
2-Hexanone	1000	0.2626613										
Dibromochloromethane	200	0.3157025										
1,2-Dibromoethane	200	0.2963606										
Chlorobenzene	200	0.7617193										
1,1,1,2-Tetrachloroethane	200	0.2593994										
Ethylbenzene	200	0.3949464										
m,p-Xylenes	400	0.4910323										
o-Xylene	200	0.4774095										
Styrene	200	0.8627798										
Bromoform	200	0.1738215										

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Isopropylbenzene	200	1.07862										
1,1,2,2-Tetrachloroethane	200	0.412203										
Bromobenzene	200	0.2826647										
1,2,3-Trichloropropane	200	0.4933462										
trans-1,4-Dichloro-2-butene	200	0.1209867										
n-Propyl Benzene	200	1.59285										
2-Chlorotoluene	200	2.370379										
1,3,5-Trimethylbenzene	200	2.155277										
4-Chlorotoluene	200	2.13496										
tert-Butylbenzene	200	1.726945										
Pentachloroethane	200											
1,2,4-Trimethylbenzene	200	2.264591										
sec-Butylbenzene	200	2.734621										
1,3-Dichlorobenzene	200	1.13866										
4-Isopropyltoluene	200	2.086401										
1,4-Dichlorobenzene	200	1.171586										
n-Butyl Benzene	200	2.266742										
1,2-Dichlorobenzene	200	1.109524										
1,2-Dibromo-3-chloropropane	200	0.1204406										
1,2,4-Trichlorobenzene	200	0.6728036										
Hexachlorobutadiene	200	0.1839823										
Naphthalene	200	1.730267										
1,2,3-Trichlorobenzene	200	0.6100554										
Diethyl ether	200	0.6591005										
Freon 113	400	0.3574556										
Dibromofluoromethane	50	0.3315153										
Toluene-d8	50	1.270039										
4-Bromofluorobenzene	50	0.5417665										
1,2-Dichloroethane-d4	50	0.8645335										

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612011	Instrument:	JVGCMS1
Matrix:	Water	Calibration Date:	11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dichlorodifluoromethane	0.4891056	8.263214	4.126667	0.1238832			15	
Chloromethane	0.9655093	3.728292	4.638333	0.1619998			SPCC (0.1)	
Vinyl chloride	0.8395935	4.076439	4.818333	0.0824676			CCC (20)	
Bromomethane	0.6725491	49.6437	5.585	9.772775E-02	0.9980846		0.99	
Chloroethane	0.6032704	12.85019	5.881667	0.1273458			15	
Trichlorofluoromethane	0.9226812	8.61043	6.201667	6.840952E-02			15	
Acrolein	0.2051294	10.47996	7.888333	5.220398E-02			15	
1,1-Dichloroethene	0.685872	5.063244	7.283333	0.0697844			CCC (20)	
Acetone	0.2787158	14.82686	8.388333	8.930864E-02			15	
Iodomethane	0.7809547	26.43857	7.578333	5.201365E-02	0.9996908		0.99	
Carbon disulfide	2.811647	6.788939	7.378333	5.460098E-02			15	
Acetonitrile	0.1380945	13.60038	9.143333	5.597861E-02			15	
3-Chloropropene	1.210318	9.623492	8.16	2.450681E-02			15	
Methylene Chloride	1.008004	22.77009	8.336667	0.0633192	0.9997634		0.99	
Acrylonitrile	0.4962335	11.9714	9.621428	3.543329E-02			15	
Methyl-tert-Butyl Ether	2.081972	6.324892	8.768334	8.624266E-02			15	
trans-1,2-Dichloroethene	0.7836962	3.333029	8.625	6.076272E-02			15	
1,1-Dichloroethane	1.563742	9.917041	9.575	5.562758E-02			SPCC (0.1)	
Vinyl acetate	1.661521	23.13122	9.87	1.926967E-02	0.9889033		0.99	
Isopropyl Ether	3.292689	3.825919	9.35	1.232276E-02			15	
Chloroprene	0.598233	7.346196	9.548333	4.627723E-02			15	
2-Butanone	8.788243E-02	10.69049	11.02167	6.799587E-02			15	
cis-1,2-Dichloroethene	0.837048	2.083256	10.32	0.0147416			15	
2,2-Dichloropropane	0.8906018	9.985542	10.47833	3.896961E-02			15	
Propionitrile	0.1204256	10.82057	11.4	3.753579E-03			15	
Methacrylonitrile	0.6295718	9.847603	11.435	5.313458E-02			15	
Bromochloromethane	0.3448757	9.577937	10.58667	4.882721E-02	0.998923		0.99	
Chloroform	1.489974	7.566166	10.65	1.081857E-02			CCC (20)	
1,1,1-Trichloroethane	1.087956	6.039617	10.965	4.730071E-02			15	
1,1-Dichloropropene	1.055627	2.048352	11.115	4.777277E-02			15	
Isobutyl alcohol	7.110645E-02	7.065213	11.50333	4.396352E-02			15	
Carbon Tetrachloride	0.3996015	4.91674	10.885	5.259331E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612011	Instrument:	JVGCMS1
Matrix:	Water	Calibration Date:	11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dichloroethane	0.5416884	12.04494	11.64333	4.395917E-02			15	
Benzene	1.357218	3.24838	11.42833	4.055526E-02			15	
Trichloroethene	0.3086262	3.801424	12.09333	4.244813E-02			15	
1,2-Dichloropropane	0.3922777	5.501212	12.69	1.313138E-02			CCC (20)	
Methyl Methacrylate	0.2348742	10.17942	12.82833	3.438979E-02			15	
1,4-Dioxane	3.741943E-03	26.1882	12.935	4.115165E-02	0.999133		0.99	
Dibromomethane	0.2458341	7.895044	12.58167	2.722672E-02			15	
Bromodichloromethane	0.5324099	8.340159	12.73	9.976292E-03			15	
2-Chloroethyl Vinyl Ether	0.1103583	55.39909	13.29167	3.035253E-02	0.9972193		0.99	
cis-1,3-Dichloropropene	0.5674475	9.957627	13.41286	3.623176E-02			15	
4-Methyl-2-pentanone	4.531632E-02	7.456596	14.02167	2.686936E-02			15	
Toluene	0.7588912	5.322928	13.68833	3.304316E-02			CCC (20)	
trans-1,3-Dichloropropene	0.4674258	13.99263	14.08857	2.914047E-02			15	
Cyclohexane	1.410118	5.59365	10.63333	0.0495549			15	
Ethyl Methacrylate	0.4477537	6.700453	14.17333	3.024873E-02			15	
1,1,2-Trichloroethane	0.3006846	7.924853	14.27833	3.250169E-02			15	
Methyl acetate	0.9049549	9.119063	8.593334	5.886581E-02			15	
1,3-Dichloropropane	0.5747967	5.625288	14.58167	3.017796E-02			15	
Methyl cyclohexane	0.6252538	47.68198	12.11667	6.511288E-02	0.9998393		0.99	
Tetrachloroethene	0.3041882	23.54363	14.122	2.611843E-02	0.9997888		0.99	
2-Hexanone	0.2756401	11.12374	14.88167	2.317611E-02			15	
Dibromochloromethane	0.2968428	7.645503	14.49286	5.273439E-02			15	
1,2-Dibromoethane	0.2957643	6.295197	14.78833	0.0245476			15	
Chlorobenzene	0.75907	4.230163	15.3	1.718374E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.2597614	10.54839	15.34429	3.216631E-02			15	
Ethylbenzene	0.3859952	6.211594	15.28	9.388808E-03			CCC (20)	
m,p-Xylenes	0.4757066	4.887123	15.415	3.330498E-02			15	
o-Xylene	0.4633409	4.612091	15.83833	2.892547E-02			15	
Styrene	0.8131023	9.984198	15.88167	2.888939E-02			15	
Bromoform	0.1459766	30.02477	15.96167	2.723676E-02	0.999666		SPCC (0.1)	
Isopropylbenzene	1.038279	10.17184	16.11333	2.495369E-02			15	
1,1,2,2-Tetrachloroethane	0.4025072	10.48271	16.53857	2.007184E-02			SPCC (0.3)	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612011	Instrument:	JVGCMS1
Matrix:	Water	Calibration Date:	11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Bromobenzene	0.2778114	6.973197	16.54	1.557433E-02			15	
1,2,3-Trichloropropane	0.5182556	9.502706	16.70571	2.461927E-02			15	
trans-1,4-Dichloro-2-butene	0.13757	8.503743	16.70333	2.260211E-02			15	
n-Propyl Benzene	1.586086	5.733572	16.48833	3.367371E-02			15	
2-Chlorotoluene	2.398101	4.259706	16.68	9.120699E-03			15	
1,3,5-Trimethylbenzene	2.095418	6.02326	16.63667	3.700984E-02			15	
4-Chlorotoluene	2.163754	3.895487	16.82833	2.621553E-02			15	
tert-Butylbenzene	1.621045	6.721607	16.96167	2.396541E-02			15	
Pentachloroethane							15	
1,2,4-Trimethylbenzene	2.174296	8.832853	17.015	0.0366926			15	
sec-Butylbenzene	2.645461	7.87505	17.12833	1.023672E-02			15	
1,3-Dichlorobenzene	1.157446	5.428462	17.40333	2.577167E-02			15	
4-Isopropyltoluene	1.95761	9.4942	17.23333	3.383868E-02			15	
1,4-Dichlorobenzene	1.168477	6.187377	17.48333	2.829391E-02			15	
n-Butyl Benzene	2.186885	7.391293	17.64667	0.0328921			15	
1,2-Dichlorobenzene	1.069142	5.039583	17.91333	0.0300671			15	
1,2-Dibromo-3-chloropropane	0.1008636	21.37288	18.74	3.494366E-02	0.9987075		0.99	
1,2,4-Trichlorobenzene	0.6103911	8.004216	19.50333	2.593028E-02			15	
Hexachlorobutadiene	0.1605368	17.38199	19.405	4.641348E-02	0.999727		0.99	
Naphthalene	1.637043	9.859078	19.93	2.009993E-02			15	
1,2,3-Trichlorobenzene	0.5807154	4.448561	20.185	2.613821E-02			15	
Diethyl ether	0.7192179	9.094101	6.831667	0.1707826			15	
Freon 113	0.3789873	9.583965	7.358333	0.1021996			15	
Dibromofluoromethane	0.3546864	3.408894	10.89	1.492901E-02			15	
Toluene-d8	1.3112	2.192469	13.63	1.100379E-02			15	
4-Bromofluorobenzene	0.5657497	3.32656	16.40833	1.767008E-02			15	
1,2-Dichloroethane-d4	0.9923649	7.658875	11.56333	0.0440664			15	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7LB026.D	Injection Date:	12/06/06
Instrument ID:	JVGCMS1	Injection Time:	23:44
Sequence:	BA00112	Lab Sample ID:	BA00112-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.5	PASS
75	30 - 60% of 95	46.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	8.28	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	70.6	PASS
175	5 - 9% of 174	8.03	PASS
176	95 - 101% of 174	97.1	PASS
177	5 - 9% of 176	7.05	PASS

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LB027.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00112	Injection Date:	12/07/06
Lab Sample ID:	BA00112-CCV1	Injection Time:	00:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	41.4	0.4891056	0.40524		-17.1	
Chloromethane	A	50.0	44.7	0.9655093	0.863364	0.1	-10.6	
Vinyl chloride	A	50.0	48.2	0.8395935	0.810173		-3.5	15
Bromomethane	L	50.0	64.8	0.6725491	0.607132		29.5	15 *
Chloroethane	A	50.0	48.1	0.6032704	0.580865		-3.7	
Trichlorofluoromethane	A	50.0	50.1	0.9226812	0.924553		0.2	
1,1-Dichloroethene	A	50.0	50.4	0.685872	0.691207		0.8	15
Acetone	A	250	223	0.2787158	0.248691		-10.8	
Carbon disulfide	A	250	261	2.811647	2.94068		4.6	
Methylene Chloride	L	50.0	53.2	1.008004	0.944535		6.4	
Methyl-tert-Butyl Ether	A	50.0	47.8	2.081972	1.99115		-4.4	
trans-1,2-Dichloroethene	A	50.0	52.2	0.7836962	0.818769		4.5	
1,1-Dichloroethane	A	50.0	46.5	1.563742	1.4532	0.1	-7.1	15
2-Butanone	A	250	271	8.788243E-02	0.0953754		8.5	
cis-1,2-Dichloroethene	A	50.0	54.4	0.837048	0.910897		8.8	
Chloroform	A	50.0	46.4	1.489974	1.38394		-7.1	15
1,1,1-Trichloroethane	A	50.0	46.3	1.087956	1.00841		-7.3	15
Carbon Tetrachloride	A	50.0	44.9	0.3996015	0.359124		-10.1	15
1,2-Dichloroethane	A	50.0	41.6	0.5416884	0.450618		-16.8	
Benzene	A	50.0	50.2	1.357218	1.36413		0.5	15
Trichloroethene	A	50.0	51.9	0.3086262	0.320574		3.9	15
1,2-Dichloropropane	A	50.0	47.9	0.3922777	0.375612		-4.2	
Bromodichloromethane	A	50.0	47.8	0.5324099	0.493754		-7.3	15
cis-1,3-Dichloropropene	A	50.0	50.4	0.5674475	0.572538		0.9	15
4-Methyl-2-pentanone	A	250	287	4.531632E-02	0.0519554		14.7	
Toluene	A	50.0	46.6	0.7588912	0.706782		-6.9	15
trans-1,3-Dichloropropene	A	50.0	45.7	0.4674258	0.427065		-8.6	15
1,1,2-Trichloroethane	A	50.0	45.4	0.3006846	0.273245		-9.1	15
Tetrachloroethene	L	50.0	48.5	0.3041882	0.333005		-3.1	15

CONTINUING CALIBRATION CHECK
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LB027.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00112	Injection Date:	12/07/06
Lab Sample ID:	BA00112-CCV1	Injection Time:	00:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2-Hexanone	A	250	242	0.2756401	0.266305		-3.4		
Dibromochloromethane	A	50.0	47.6	0.2968428	0.282527		-4.8	15	
1,2-Dibromoethane	A	50.0	48.1	0.2957643	0.284583		-3.8	15	
Chlorobenzene	A	50.0	48.9	0.75907	0.742086	0.3	-2.2	15	
Ethylbenzene	A	50.0	50.1	0.3859952	0.386909		0.2	15	
m,p-Xylenes	A	100	96.5	0.4757066	0.458871		-3.5	15	
o-Xylene	A	50.0	49.0	0.4633409	0.454032		-2.0	15	
Styrene	A	50.0	49.7	0.8131023	0.807754		-0.7	15	
Bromoform	L	50.0	45.5	0.1459766	0.153416	0.1	-8.9	15	
Isopropylbenzene	A	50.0	48.1	1.038279	0.999168		-3.8	15	
1,1,2,2-Tetrachloroethane	A	50.0	43.1	0.4025072	0.347319	0.3	-13.7	15	
1,3-Dichlorobenzene	A	50.0	44.5	1.157446	1.02924		-11.1	15	
1,4-Dichlorobenzene	A	50.0	45.3	1.168477	1.05848		-9.4	15	
1,2-Dichlorobenzene	A	50.0	46.4	1.069142	0.991607		-7.3	15	
1,2-Dibromo-3-chloropropane	L	50.0	42.1	0.1008636	0.0951603		-15.8	15	*
1,2,4-Trichlorobenzene	A	50.0	46.0	0.6103911	0.561803		-8.0	15	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7LJ001.D	Injection Date:	12/15/06
Instrument ID:	JVGCMS1	Injection Time:	09:39
Sequence:	BA00112	Lab Sample ID:	BA00112-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.3	PASS
75	30 - 60% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.28	PASS
173	Less than 2% of 174	0.525	PASS
174	50 - 200% of 95	58	PASS
175	5 - 9% of 174	8.81	PASS
176	95 - 101% of 174	99.2	PASS
177	5 - 9% of 176	6.97	PASS

CONTINUING CALIBRATION CHECK
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LJ002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00112	Injection Date:	12/15/06
Lab Sample ID:	BA00112-CCV2	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	84.6	0.4891056	0.827048		69.1	
Chloromethane	A	50.0	61.4	0.9655093	1.18646	0.1	22.9	
Vinyl chloride	A	50.0	57.4	0.8395935	0.963039		14.7	15
Bromomethane	L	50.0	70.7	0.6725491	0.658189		41.3	15 *
Chloroethane	A	50.0	50.1	0.6032704	0.604503		0.2	
Trichlorofluoromethane	A	50.0	46.1	0.9226812	0.851164		-7.8	
1,1-Dichloroethene	A	50.0	45.4	0.685872	0.623003		-9.2	15
Acetone	A	250	178	0.2787158	0.198223		-28.9	
Carbon disulfide	A	250	162	2.811647	1.82236		-35.2	
Methylene Chloride	L	50.0	51.7	1.008004	0.918911		3.4	
Methyl-tert-Butyl Ether	A	50.0	46.9	2.081972	1.95427		-6.1	
trans-1,2-Dichloroethene	A	50.0	49.8	0.7836962	0.781057		-0.3	
1,1-Dichloroethane	A	50.0	49.1	1.563742	1.53586	0.1	-1.8	15
2-Butanone	A	250	189	8.788243E-02	0.0664196		-24.4	
cis-1,2-Dichloroethene	A	50.0	49.8	0.837048	0.833592		-0.4	
Chloroform	A	50.0	47.6	1.489974	1.41966		-4.7	15
1,1,1-Trichloroethane	A	50.0	43.4	1.087956	0.94462		-13.2	15
Carbon Tetrachloride	A	50.0	44.3	0.3996015	0.354103		-11.4	15
1,2-Dichloroethane	A	50.0	46.9	0.5416884	0.508337		-6.2	
Benzene	A	50.0	53.4	1.357218	1.44804		6.7	15
Trichloroethene	A	50.0	46.2	0.3086262	0.284951		-7.7	15
1,2-Dichloropropane	A	50.0	52.6	0.3922777	0.412801		5.2	
Bromodichloromethane	A	50.0	50.8	0.5324099	0.524643		-1.5	15
cis-1,3-Dichloropropene	A	50.0	54.2	0.5674475	0.614668		8.3	15
4-Methyl-2-pentanone	A	250	198	4.531632E-02	0.0358868		-20.8	
Toluene	A	50.0	55.4	0.7588912	0.841623		10.9	15
trans-1,3-Dichloropropene	A	50.0	58.9	0.4674258	0.550335		17.7	15 *
1,1,2-Trichloroethane	A	50.0	53.9	0.3006846	0.32414		7.8	15
Tetrachloroethene	L	50.0	32.0	0.3041882	0.218025		-36.1	15 *

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LJ002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00112	Injection Date:	12/15/06
Lab Sample ID:	BA00112-CCV2	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2-Hexanone	A	250	240	0.2756401	0.264285		-4.1		
Dibromochloromethane	A	50.0	53.9	0.2968428	0.320062		7.8	15	
1,2-Dibromoethane	A	50.0	56.5	0.2957643	0.334256		13.0	15	
Chlorobenzene	A	50.0	55.6	0.75907	0.843886	0.3	11.2	15	
Ethylbenzene	A	50.0	57.9	0.3859952	0.447133		15.8	15	*
m,p-Xylenes	A	100	116	0.4757066	0.553594		16.4	15	*
o-Xylene	A	50.0	55.9	0.4633409	0.518072		11.8	15	
Styrene	A	50.0	56.9	0.8131023	0.92492		13.8	15	
Bromoform	L	50.0	48.2	0.1459766	0.162578	0.1	-3.7	15	
Isopropylbenzene	A	50.0	56.4	1.038279	1.17132		12.8	15	
1,1,2,2-Tetrachloroethane	A	50.0	55.4	0.4025072	0.446138	0.3	10.8	15	
1,3-Dichlorobenzene	A	50.0	55.1	1.157446	1.27582		10.2	15	
1,4-Dichlorobenzene	A	50.0	57.6	1.168477	1.34496		15.1	15	
1,2-Dichlorobenzene	A	50.0	56.8	1.069142	1.21559		13.7	15	
1,2-Dibromo-3-chloropropane	L	50.0	50.4	0.1008636	0.115219		0.8	15	
1,2,4-Trichlorobenzene	A	50.0	57.0	0.6103911	0.695385		13.9	15	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 8270C

Laboratory: ENCO Jacksonville **SDG:** BR006-010

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCMS1

Analyte	MDL	MRL	Units
Phenol	2	10.0	ug/L
Bis(2-chloroethyl)ether	3	10.0	ug/L
2-Chlorophenol	3	10.0	ug/L
2-Methylphenol	2	10.0	ug/L
Bis(2-chloroisopropyl)ether	4	10.0	ug/L
3 & 4-Methylphenol	2	10.0	ug/L
N-Nitroso-di-n-propylamine	3	10.0	ug/L
Hexachloroethane	3	10.0	ug/L
Nitrobenzene	4	10.0	ug/L
Isophorone	3	10.0	ug/L
2-Nitrophenol	3	10.0	ug/L
2,4-Dimethylphenol	2	10.0	ug/L
Bis(2-chloroethoxy)methane	3	10.0	ug/L
2,4-Dichlorophenol	2	10.0	ug/L
Naphthalene	3	10.0	ug/L
4-Chloroaniline	2	10.0	ug/L
Hexachlorobutadiene	3	10.0	ug/L
4-Chloro-3-methylphenol	1	10.0	ug/L
2-Methylnaphthalene	2	10.0	ug/L
Hexachlorocyclopentadiene	2	10.0	ug/L
2,4,6-Trichlorophenol	2	10.0	ug/L
2,4,5-Trichlorophenol	2	10.0	ug/L
2-Chloronaphthalene	2	10.0	ug/L
2-Nitroaniline	2	10.0	ug/L
Dimethylphthalate	1	10.0	ug/L
2,6-Dinitrotoluene	2	10.0	ug/L
Acenaphthylene	2	10.0	ug/L
3-Nitroaniline	0.930	10.0	ug/L
Acenaphthene	2	10.0	ug/L
2,4-Dinitrophenol	1	10.0	ug/L
4-Nitrophenol	1	10.0	ug/L
Dibenzofuran	2	10.0	ug/L
2,4-Dinitrotoluene	2	10.0	ug/L
Diethylphthalate	2	10.0	ug/L
4-Chlorophenyl-phenylether	2	10.0	ug/L
Fluorene	1	10.0	ug/L
4-Nitroaniline	2	10.0	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8270C

Laboratory: ENCO Jacksonville **SDG:** BR006-010

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCMS1

Analyte	MDL	MRL	Units
2-Methyl-4,6-dinitrophenol	0.970	10.0	ug/L
N-Nitrosodiphenylamine	2	10.0	ug/L
4-Bromophenyl-phenylether	2	10.0	ug/L
Hexachlorobenzene	2	10.0	ug/L
Pentachlorophenol	1	10.0	ug/L
Phenanthrene	1	10.0	ug/L
Anthracene	1	10.0	ug/L
Carbazole	1	10.0	ug/L
Di-n-butylphthalate	1	10.0	ug/L
Fluoranthene	2	10.0	ug/L
Pyrene	2	10.0	ug/L
Butylbenzylphthalate	1	10.0	ug/L
3,3′-Dichlorobenzidine	2	10.0	ug/L
Benzo(a)anthracene	1	10.0	ug/L
Bis(2-ethylhexyl)phthalate	2	10.0	ug/L
Chrysene	2	10.0	ug/L
Di-n-octylphthalate	2	10.0	ug/L
Benzo(b)fluoranthene	2	10.0	ug/L
Benzo(k)fluoranthene	1	10.0	ug/L
Benzo(a)pyrene	1	10.0	ug/L
Indeno(1,2,3-cd)pyrene	3	10.0	ug/L
Dibenzo(a,h)anthracene	3	10.0	ug/L
Benzo(g,h,i)perylene	3	10.0	ug/L
Acetophenone	2	10.0	ug/L
1,1'-Biphenyl	3	10.0	ug/L
Atrazine	1	10.0	ug/L
Benzaldehyde	3	10.0	ug/L
Caprolactam	2	10.0	ug/L

PREPARATION BATCH SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07001 Batch Matrix: Water Preparation: EPA 3510C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L07001-BLK1	5LC010.D	12/07/06 11:00	
LCS	6L07001-BS1	5LC011.D	12/07/06 11:00	
MW-1	6L07001-MS1	5LC012.D	12/07/06 11:00	
MW-1	6L07001-MSD1	5LC013.D	12/07/06 11:00	
JAX47-937MW2S-113006	B610359-01	5LC017.D	12/07/06 11:00	
JAX47-937MW2S-113006	B610359-01RE1	5LC028.D	12/07/06 11:00	d10 due to strong odor
JAX47-937MW6D-113006	B610359-02	5LC018.D	12/07/06 11:00	
JAX47-937MW10S-113006	B610359-03	5LC019.D	12/07/06 11:00	
JAX47-MW18D-113006	B610359-04	5LC020.D	12/07/06 11:00	
JAX47-MW18S-113006	B610359-05	5LC021.D	12/07/06 11:00	
JAX47-MW20S-113006	B610359-06	5LC022.D	12/07/06 11:00	
JAX47-MW27S-113006	B610359-07	5LC023.D	12/07/06 11:00	
USGS-SSMW45-113006	B610359-09	5LC024.D	12/07/06 11:00	
JAX47-DU01-120106	B610359-10	5LC025.D	12/07/06 11:00	
JAX47-MW13D-120106	B610359-11	5LC026.D	12/07/06 11:00	
JAX47-MW13S-120106	B610359-12	5LC027.D	12/07/06 11:00	

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L07001-BLK1	File ID:	5LC010.D
Prepared:	12/07/06 11:00	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/08/06 15:26	Instrument:	JSVGCMS1		
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	10	U
106-44-5	3 & 4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L07001-BLK1	File ID:	5LC010.D
Prepared:	12/07/06 11:00	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/08/06 15:26	Instrument:	JSVGCMS1		
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
92-52-4	1,1'-Biphenyl	10	U
1912-24-9	Atrazine	10	U
85-68-7	Butylbenzylphthalate	10	U
100-52-7	Benzaldehyde	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
105-60-2	Caprolactam	10	U
56-55-3	Benzo(a)anthracene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L07001-BLK1	File ID:	5LC010.D
Prepared:	12/07/06 11:00	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/08/06 15:26	Instrument:	JSVGCMS1		
Batch:	6L07001	Sequence:	BA00114	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
98-86-2	Acetophenone	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	54.0	54	20 - 110	
Nitrobenzene-d5	50.0	50.8	102	40 - 110	
2-Fluorobiphenyl	50.0	45.1	90	50 - 110	
2,4,6-Tribromophenol	100	115	115	40 - 125	
Terphenyl-d14	50.0	54.6	109	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	144657	4.79	168681	4.79	
Naphthalene-d8	486896	5.98	582734	5.98	
Acenaphthene-d10	328579	7.71	385162	7.71	
Phenanthrene-d10	589556	9.2	672932	9.2	
Chrysene-d12	674936	11.85	722963	11.85	
Perylene-d12	692464	13.24	584124	13.24	

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L07001	Laboratory ID:	6L07001-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	34.6	69	35 - 110
2-Chlorophenol	50.0	31.3	63	35 - 105
2-Methylphenol	50.0	28.1	56	40 - 110
Bis(2-chloroisopropyl)ether	50.0	37.6	75	25 - 130
3 & 4-Methylphenol	50.0	27.0	54	30 - 110
N-Nitroso-di-n-propylamine	50.0	37.4	75	35 - 130
Hexachloroethane	50.0	33.0	66	30 - 95
Nitrobenzene	50.0	37.1	74	45 - 110
Isophorone	50.0	38.2	76	50 - 110
2-Nitrophenol	50.0	35.3	71	40 - 115
2,4-Dimethylphenol	50.0	31.4	63	30 - 110
Bis(2-chloroethoxy)methane	50.0	36.8	74	45 - 105
2,4-Dichlorophenol	50.0	34.9	70	50 - 105
Naphthalene	50.0	33.7	67	40 - 100
4-Chloroaniline	50.0	58.2	116 *	15 - 110
Hexachlorobutadiene	50.0	34.5	69	25 - 105
4-Chloro-3-methylphenol	50.0	34.9	70	45 - 110
2-Methylnaphthalene	50.0	34.4	69	45 - 105
2,4,6-Trichlorophenol	50.0	36.1	72	50 - 115
2,4,5-Trichlorophenol	50.0	35.2	70	50 - 110
2-Chloronaphthalene	50.0	34.7	69	50 - 105
2-Nitroaniline	50.0	42.4	85	50 - 115
Dimethylphthalate	50.0	37.8	76	25 - 125
2,6-Dinitrotoluene	50.0	37.6	75	50 - 115
Acenaphthylene	50.0	37.8	76	50 - 105
3-Nitroaniline	50.0	109	219 *	20 - 125
Acenaphthene	50.0	35.9	72	45 - 110
2,4-Dinitrophenol	50.0	25.4	51	15 - 140
2,4-Dinitrotoluene	50.0	38.8	78	50 - 120
Diethylphthalate	50.0	39.1	78	40 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L07001	Laboratory ID:	6L07001-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
4-Chlorophenyl-phenylether	50.0	37.8	76	50 - 110
Fluorene	50.0	36.9	74	50 - 110
4-Nitroaniline	50.0	84.6	169 *	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	29.0	58	40 - 130
N-Nitrosodiphenylamine	50.0	57.9	116 *	50 - 110
Hexachlorobenzene	50.0	39.2	78	50 - 110
Pentachlorophenol	50.0	37.8	76	40 - 115
Phenanthrene	50.0	38.4	77	50 - 115
Anthracene	50.0	38.3	77	55 - 110
Carbazole	50.0	123	245 *	50 - 115
Di-n-butylphthalate	50.0	39.5	79	55 - 115
Fluoranthene	50.0	39.6	79	55 - 115
Pyrene	50.0	40.0	80	50 - 130
Butylbenzylphthalate	50.0	40.5	81	45 - 115
Benzo(a)anthracene	50.0	39.6	79	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	39.8	80	40 - 125
Chrysene	50.0	39.6	79	55 - 110
Di-n-octylphthalate	50.0	41.0	82	35 - 135
Benzo(b)fluoranthene	50.0	39.2	78	45 - 120
Benzo(k)fluoranthene	50.0	41.0	82	45 - 125
Benzo(a)pyrene	50.0	38.8	78	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	36.9	74	45 - 125
Dibenzo(a,h)anthracene	50.0	36.6	73	40 - 125
Benzo(g,h,i)perylene	50.0	34.1	68	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07001
Laboratory ID: 6L07001-MS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	ND	32.9	66	35 - 110
2-Chlorophenol	50.0	ND	29.6	59	35 - 105
2-Methylphenol	50.0	ND	27.7	55	40 - 110
Bis(2-chloroisopropyl)ether	50.0	ND	36.0	72	25 - 130
3 & 4-Methylphenol	50.0	ND	26.0	52	30 - 110
N-Nitroso-di-n-propylamine	50.0	ND	36.4	73	35 - 130
Hexachloroethane	50.0	ND	29.7	59	30 - 95
Nitrobenzene	50.0	ND	35.5	71	45 - 110
Isophorone	50.0	ND	38.1	76	50 - 110
2-Nitrophenol	50.0	ND	34.0	68	40 - 115
2,4-Dimethylphenol	50.0	ND	28.2	56	30 - 110
Bis(2-chloroethoxy)methane	50.0	ND	36.0	72	45 - 105
2,4-Dichlorophenol	50.0	ND	34.9	70	50 - 105
Naphthalene	50.0	ND	32.7	65	40 - 100
4-Chloroaniline	50.0	ND	61.2	122 *	15 - 110
Hexachlorobutadiene	50.0	ND	32.8	66	25 - 105
4-Chloro-3-methylphenol	50.0	ND	35.8	72	45 - 110
2-Methylnaphthalene	50.0	ND	34.8	70	45 - 105
2,4,6-Trichlorophenol	50.0	ND	37.9	76	50 - 115
2,4,5-Trichlorophenol	50.0	ND	37.5	75	50 - 110
2-Chloronaphthalene	50.0	ND	36.1	72	50 - 105
2-Nitroaniline	50.0	ND	44.4	89	50 - 115
Dimethylphthalate	50.0	ND	39.8	80	25 - 125
2,6-Dinitrotoluene	50.0	ND	38.4	77	50 - 115
Acenaphthylene	50.0	ND	39.1	78	50 - 105
3-Nitroaniline	50.0	ND	114	228 *	20 - 125
Acenaphthene	50.0	ND	37.4	75	45 - 110
2,4-Dinitrophenol	50.0	ND	30.4	61	15 - 140
2,4-Dinitrotoluene	50.0	ND	40.6	81	50 - 120
Diethylphthalate	50.0	ND	41.2	82	40 - 120
4-Chlorophenyl-phenylether	50.0	ND	39.3	79	50 - 110
Fluorene	50.0	ND	38.8	78	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07001
Laboratory ID: 6L07001-MS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
4-Nitroaniline	50.0	ND	94.6	189 *	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	ND	34.0	68	40 - 130
N-Nitrosodiphenylamine	50.0	ND	61.5	123 *	50 - 110
Hexachlorobenzene	50.0	ND	40.7	81	50 - 110
Pentachlorophenol	50.0	ND	38.8	78	40 - 115
Phenanthrene	50.0	ND	39.9	80	50 - 115
Anthracene	50.0	ND	40.2	80	55 - 110
Carbazole	50.0	ND	129	258 *	50 - 115
Di-n-butylphthalate	50.0	ND	41.0	82	55 - 115
Fluoranthene	50.0	ND	41.4	83	55 - 115
Pyrene	50.0	ND	41.6	83	50 - 130
Butylbenzylphthalate	50.0	ND	42.2	84	45 - 115
Benzo(a)anthracene	50.0	ND	41.0	82	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	ND	41.4	83	40 - 125
Chrysene	50.0	ND	41.0	82	55 - 110
Di-n-octylphthalate	50.0	ND	41.2	82	35 - 135
Benzo(b)fluoranthene	50.0	ND	40.5	81	45 - 120
Benzo(k)fluoranthene	50.0	ND	43.0	86	45 - 125
Benzo(a)pyrene	50.0	ND	40.2	80	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	ND	39.9	80	45 - 125
Dibenzo(a,h)anthracene	50.0	ND	38.8	78	40 - 125
Benzo(g,h,i)perylene	50.0	ND	36.9	74	40 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	30.6	61	7	30	35 - 110
2-Chlorophenol	50.0	27.0	54	9	30	35 - 105
2-Methylphenol	50.0	24.8	50	11	30	40 - 110
Bis(2-chloroisopropyl)ether	50.0	32.9	66	9	30	25 - 130
3 & 4-Methylphenol	50.0	23.5	47	10	30	30 - 110
N-Nitroso-di-n-propylamine	50.0	34.2	68	6	30	35 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07001
Laboratory ID: 6L07001-MSD1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachloroethane	50.0	27.7	55	7	30	30 - 95
Nitrobenzene	50.0	33.8	68	5	30	45 - 110
Isophorone	50.0	36.9	74	3	30	50 - 110
2-Nitrophenol	50.0	32.4	65	5	30	40 - 115
2,4-Dimethylphenol	50.0	26.2	52	7	30	30 - 110
Bis(2-chloroethoxy)methane	50.0	34.1	68	5	30	45 - 105
2,4-Dichlorophenol	50.0	33.5	67	4	30	50 - 105
Naphthalene	50.0	30.9	62	6	30	40 - 100
4-Chloroaniline	50.0	59.1	118 *	4	30	15 - 110
Hexachlorobutadiene	50.0	31.0	62	6	30	25 - 105
4-Chloro-3-methylphenol	50.0	33.8	68	6	30	45 - 110
2-Methylnaphthalene	50.0	32.5	65	7	30	45 - 105
2,4,6-Trichlorophenol	50.0	34.8	70	8	30	50 - 115
2,4,5-Trichlorophenol	50.0	36.0	72	4	30	50 - 110
2-Chloronaphthalene	50.0	33.5	67	7	30	50 - 105
2-Nitroaniline	50.0	42.9	86	3	30	50 - 115
Dimethylphthalate	50.0	38.0	76	5	30	25 - 125
2,6-Dinitrotoluene	50.0	36.7	73	5	30	50 - 115
Acenaphthylene	50.0	36.7	73	6	30	50 - 105
3-Nitroaniline	50.0	113	227 *	0.4	30	20 - 125
Acenaphthene	50.0	35.0	70	7	30	45 - 110
2,4-Dinitrophenol	50.0	31.1	62	2	30	15 - 140
2,4-Dinitrotoluene	50.0	38.2	76	6	30	50 - 120
Diethylphthalate	50.0	39.0	78	5	30	40 - 120
4-Chlorophenyl-phenylether	50.0	37.3	75	5	30	50 - 110
Fluorene	50.0	36.6	73	6	30	50 - 110
4-Nitroaniline	50.0	80.3	161 *	16	30	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	34.1	68	0.1	30	40 - 130
N-Nitrosodiphenylamine	50.0	57.4	115 *	7	30	50 - 110
Hexachlorobenzene	50.0	39.1	78	4	30	50 - 110
Pentachlorophenol	50.0	36.6	73	6	30	40 - 115
Phenanthrene	50.0	38.4	77	4	30	50 - 115
Anthracene	50.0	37.9	76	6	30	55 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07001
Laboratory ID: 6L07001-MSD1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Carbazole	50.0	121	242 *	6	30	50 - 115
Di-n-butylphthalate	50.0	39.0	78	5	30	55 - 115
Fluoranthene	50.0	39.9	80	4	30	55 - 115
Pyrene	50.0	39.7	79	5	30	50 - 130
Butylbenzylphthalate	50.0	40.3	81	5	30	45 - 115
Benzo(a)anthracene	50.0	39.2	78	5	30	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	39.0	78	6	30	40 - 125
Chrysene	50.0	39.3	79	4	30	55 - 110
Di-n-octylphthalate	50.0	39.0	78	5	30	35 - 135
Benzo(b)fluoranthene	50.0	38.6	77	5	30	45 - 120
Benzo(k)fluoranthene	50.0	41.5	83	3	30	45 - 125
Benzo(a)pyrene	50.0	38.5	77	5	30	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	37.5	75	6	30	45 - 125
Dibenzo(a,h)anthracene	50.0	37.3	75	4	30	40 - 125
Benzo(g,h,i)perylene	50.0	35.2	70	5	30	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5LC005.D	Injection Date:	12/08/06
Instrument ID:	JSVGCMS1	Injection Time:	12:10
Sequence:	BA00114	Lab Sample ID:	BA00114-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	30.5	PASS
68	Less than 2% of 69	0.213	PASS
69	Less than 101% of 198	32.9	PASS
70	Less than 2% of 69	0.493	PASS
127	40 - 60% of 198	40.5	PASS
197	Less than 1% of 198	0.0701	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.02	PASS
275	10 - 30% of 198	26.8	PASS
365	1 - 100% of 198	2.77	PASS
443	17 - 23% of 442	21.2	PASS
441	0.01 - 100% of 443	73.1	PASS
442	40 - 100% of 198	56.1	PASS

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LC006.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00114	Injection Date:	12/08/06
Lab Sample ID:	BA00114-CCV1	Injection Time:	12:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bis(2-chloroethyl)ether	A	40.0	37.0	1.113659	1.03025		-7.5	15
2-Chlorophenol	A	40.0	39.5	1.347204	1.3311		-1.2	15
2-Methylphenol	A	40.0	39.1	0.9987735	0.976461		-2.2	15
Bis(2-chloroisopropyl)ether	A	40.0	40.5	1.273852	1.2904		1.3	15
3 & 4-Methylphenol	A	40.0	41.2	1.227253	1.26327		2.9	15
N-Nitroso-di-n-propylamine	A	40.0	40.6	0.7791327	0.790709	0.05	1.5	15
Hexachloroethane	A	40.0	39.8	0.5979318	0.595704		-0.4	15
Nitrobenzene	A	40.0	39.2	0.3447905	0.337677		-2.1	15
Isophorone	A	40.0	38.8	0.637638	0.619297		-2.9	15
2-Nitrophenol	A	40.0	38.4	0.2120211	0.2035		-4.0	15
2,4-Dimethylphenol	A	40.0	38.6	0.3165763	0.305098		-3.6	15
Bis(2-chloroethoxy)methane	A	40.0	39.0	0.3846464	0.374718		-2.6	15
2,4-Dichlorophenol	A	40.0	40.0	0.3590291	0.359485		0.1	15
Naphthalene	A	40.0	38.6	1.196628	1.15482		-3.5	15
4-Chloroaniline	A	40.0	68.3	0.4155317	0.30534		-26.5	
Hexachlorobutadiene	A	40.0	40.2	0.227538	0.228976		0.6	
4-Chloro-3-methylphenol	A	40.0	39.6	0.3049334	0.301911		-1.0	15
2-Methylnaphthalene	A	40.0	39.3	0.8038685	0.79022		-1.7	15
2,4,6-Trichlorophenol	A	40.0	39.4	0.5046372	0.497653		-1.4	15
2,4,5-Trichlorophenol	A	40.0	39.6	0.5118521	0.506358		-1.1	15
2-Chloronaphthalene	A	40.0	38.5	1.308326	1.26025		-3.7	15
2-Nitroaniline	A	40.0	42.4	0.2980158	0.268181		-10.0	
Dimethylphthalate	A	40.0	39.0	1.472225	1.43459		-2.6	15
2,6-Dinitrotoluene	A	40.0	38.5	0.3238295	0.311747		-3.7	
Acenaphthylene	A	40.0	38.7	1.877258	1.81597		-3.3	15
3-Nitroaniline	A	40.0	70.0	0.2987519	0.125834		-57.9	
Acenaphthene	A	40.0	39.0	1.200929	1.16995		-2.6	15
2,4-Dinitrophenol	Q	40.0	23.5	0.1466689	0.0659624	0.05	-41.3	
2,4-Dinitrotoluene	A	40.0	39.4	0.429289	0.422681		-1.5	15

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LC006.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00114	Injection Date:	12/08/06
Lab Sample ID:	BA00114-CCV1	Injection Time:	12:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Diethylphthalate	A	40.0	39.1	1.41314	1.3829		-2.1		
4-Chlorophenyl-phenylether	A	40.0	39.8	0.8539739	0.849096		-0.6	15	
Fluorene	A	40.0	39.6	1.558152	1.54214		-1.0	15	
4-Nitroaniline	L	40.0	27.5	0.1842331	0.0929411		-31.2		
2-Methyl-4,6-dinitrophenol	Q	40.0	25.3	0.2569687	0.14683		-36.8	15	*
N-Nitrosodiphenylamine	A	40.0	35.3	0.636881	0.561954		-11.8		
Hexachlorobenzene	A	40.0	40.6	0.3939929	0.399832		1.5	15	
Pentachlorophenol	Q	40.0	42.2	0.1500199	0.160619		5.5	15	
Phenanthrene	A	40.0	39.5	1.32166	1.30551		-1.2	15	
Anthracene	A	40.0	38.9	1.346312	1.30939		-2.7	15	
Carbazole	A	40.0	41.4	1.049298	0.328949		-68.7		
Di-n-butylphthalate	A	40.0	39.2	1.402729	1.37278		-2.1		
Fluoranthene	A	40.0	40.1	1.58865	1.59213		0.2	15	
Pyrene	A	40.0	39.9	1.656371	1.65162		-0.3	15	
Butylbenzylphthalate	A	40.0	40.3	0.645954	0.651095		0.8		
Benzo(a)anthracene	A	40.0	38.6	1.463374	1.41022		-3.6	15	
Bis(2-ethylhexyl)phthalate	A	40.0	38.4	0.7700769	0.739824		-3.9		
Chrysene	A	40.0	38.8	1.3725	1.33222		-2.9	15	
Di-n-octylphthalate	A	40.0	39.2	1.258534	1.23364		-2.0		
Benzo(b)fluoranthene	A	40.0	38.5	1.479716	1.42581		-3.6	15	
Benzo(k)fluoranthene	A	40.0	41.5	1.424611	1.47697		3.7	15	
Benzo(a)pyrene	A	40.0	38.4	1.299118	1.24634		-4.1	15	
Indeno(1,2,3-cd)pyrene	A	40.0	37.9	1.47866	1.40233		-5.2	15	
Dibenzo(a,h)anthracene	L	40.0	37.6	1.291882	1.25434		-6.0	15	
Benzo(g,h,i)perylene	A	40.0	35.3	1.144079	1.00918		-11.8	15	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LC008.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00114	Injection Date:	12/08/06
Lab Sample ID:	BA00114-CCV2	Injection Time:	14:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Chloroaniline	A	40.0	37.1	0.4155317	0.7753		86.6	
2-Nitroaniline	A	40.0	35.8	0.2980158	0.509391		70.9	
3-Nitroaniline	A	40.0	34.9	0.2987519	0.498275		66.8	
4-Nitroaniline	L	40.0	34.4	0.1842331	0.293647		-13.9	
Carbazole	A	40.0	36.7	1.049298	1.79028		70.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-937MW2S-113006	11/30/06 16:10	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 18:15	1.00	40.00	
JAX47-937MW2S-113006	11/30/06 16:10	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 22:39	1.00	40.00	
JAX47-937MW6D-113006	11/30/06 14:50	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 18:39	1.00	40.00	
JAX47-937MW10S-113006	11/30/06 16:15	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 19:03	1.00	40.00	
JAX47-MW18D-113006	11/30/06 10:10	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 19:27	1.00	40.00	
JAX47-MW18S-113006	11/30/06 12:07	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 19:51	1.00	40.00	
JAX47-MW20S-113006	11/30/06 13:45	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 20:15	1.00	40.00	
JAX47-MW27S-113006	11/30/06 11:15	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 20:39	1.00	40.00	
USGS-SSMW45-113006	11/30/06 15:10	12/01/06 16:50	12/07/06 11:00	7.00	7.00	12/08/06 21:03	1.00	40.00	
JAX47-DU01-120106	12/01/06 00:00	12/01/06 16:50	12/07/06 11:00	6.00	7.00	12/08/06 21:27	1.00	40.00	
JAX47-MW13D-120106	12/01/06 10:45	12/01/06 16:50	12/07/06 11:00	6.00	7.00	12/08/06 21:51	1.00	40.00	
JAX47-MW13S-120106	12/01/06 09:30	12/01/06 16:50	12/07/06 11:00	6.00	7.00	12/08/06 22:15	1.00	40.00	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00069	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00069-TUN2	5K1020.D	11/01/06 23:36
Cal Standard	BA00069-CAL7	5K1021.D	11/01/06 23:54
Cal Standard	BA00069-CAL8	5K1022.D	11/02/06 00:19
Cal Standard	BA00069-CAL9	5K1023.D	11/02/06 00:43
Cal Standard	BA00069-CALA	5K1024.D	11/02/06 01:08
Cal Standard	BA00069-CALB	5K1025.D	11/02/06 01:33
Cal Standard	BA00069-CALC	5K1026.D	11/02/06 01:58
MS Tune	BA00069-TUN3	5KC002.D	11/08/06 09:45
MS Tune	BA00069-TUN1	5KX014.D	11/29/06 16:09
Cal Standard	BA00069-CAL1	5KX015.D	11/29/06 16:27
Cal Standard	BA00069-CAL2	5KX016.D	11/29/06 16:51
Cal Standard	BA00069-CAL3	5KX017.D	11/29/06 17:15
Cal Standard	BA00069-CAL4	5KX018.D	11/29/06 17:39
Cal Standard	BA00069-CAL5	5KX019.D	11/29/06 18:04
Cal Standard	BA00069-CAL6	5KX020.D	11/29/06 18:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00114	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00114-TUN1	5LC005.D	12/08/06 12:10
Calibration Check	BA00114-CCV1	5LC006.D	12/08/06 12:27
Calibration Check	BA00114-CCV2	5LC008.D	12/08/06 14:37
Blank	6L07001-BLK1	5LC010.D	12/08/06 15:26
LCS	6L07001-BS1	5LC011.D	12/08/06 15:50
MW-1	6L07001-MS1	5LC012.D	12/08/06 16:14
MW-1	6L07001-MSD1	5LC013.D	12/08/06 16:38
JAX47-937MW2S-113006	B610359-01	5LC017.D	12/08/06 18:15
JAX47-937MW6D-113006	B610359-02	5LC018.D	12/08/06 18:39
JAX47-937MW10S-113006	B610359-03	5LC019.D	12/08/06 19:03
JAX47-MW18D-113006	B610359-04	5LC020.D	12/08/06 19:27
JAX47-MW18S-113006	B610359-05	5LC021.D	12/08/06 19:51
JAX47-MW20S-113006	B610359-06	5LC022.D	12/08/06 20:15
JAX47-MW27S-113006	B610359-07	5LC023.D	12/08/06 20:39
USGS-SSMW45-113006	B610359-09	5LC024.D	12/08/06 21:03
JAX47-DU01-120106	B610359-10	5LC025.D	12/08/06 21:27
JAX47-MW13D-120106	B610359-11	5LC026.D	12/08/06 21:51
JAX47-MW13S-120106	B610359-12	5LC027.D	12/08/06 22:15
JAX47-937MW2S-113006	B610359-01RE1	5LC028.D	12/08/06 22:39

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5K1020.D	Injection Date:	11/01/06
Instrument ID:	JSVGCMS1	Injection Time:	23:36
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.9	PASS
68	Less than 2% of 69	2.19	PASS
69	Less than 101% of 198	38	PASS
70	Less than 2% of 69	0.448	PASS
127	40 - 60% of 198	44.4	PASS
197	Less than 1% of 198	0.0916	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.94	PASS
275	10 - 30% of 198	24.9	PASS
365	1 - 100% of 198	2.46	PASS
443	17 - 23% of 442	20.2	PASS
441	0.01 - 100% of 443	73.7	PASS
442	40 - 100% of 198	59.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5KC002.D	Injection Date:	11/08/06
Instrument ID:	JSVGCMS1	Injection Time:	09:45
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.1	PASS
68	Less than 2% of 69	0.153	PASS
69	Less than 101% of 198	36.3	PASS
70	Less than 2% of 69	0.522	PASS
127	40 - 60% of 198	43.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.04	PASS
275	10 - 30% of 198	24.6	PASS
365	1 - 100% of 198	2.34	PASS
443	17 - 23% of 442	21.3	PASS
441	0.01 - 100% of 443	70.4	PASS
442	40 - 100% of 198	55.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5KX014.D	Injection Date:	11/29/06
Instrument ID:	JSVGCMS1	Injection Time:	16:09
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	34.4	PASS
68	Less than 2% of 69	1.72	PASS
69	Less than 101% of 198	38.3	PASS
70	Less than 2% of 69	0.81	PASS
127	40 - 60% of 198	43.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.67	PASS
275	10 - 30% of 198	24.2	PASS
365	1 - 100% of 198	2.45	PASS
443	17 - 23% of 442	20.1	PASS
441	0.01 - 100% of 443	77	PASS
442	40 - 100% of 198	44.7	PASS

INITIAL CALIBRATION STANDARDS
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00069	Instrument:	JSVGCMS1
Calibration:	0612007		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6J0127	8270 - 8270 Tune Working Std	BA00069-TUN2	5K1020.D	11/01/06 23:36
B6F0036	8270 - 10ug/mL Basic Extractables	BA00069-CAL7	5K1021.D	11/01/06 23:54
B6F0037	8270 - 20ug/mL Basic Extractables	BA00069-CAL8	5K1022.D	11/02/06 00:19
B6F0038	8270 - 40ug/mL Basic Extractables	BA00069-CAL9	5K1023.D	11/02/06 00:43
B6F0039	8270 - 60ug/mL Basic Extractables	BA00069-CALA	5K1024.D	11/02/06 01:08
B6F0040	8270 - 80ug/mL Basic Extractables	BA00069-CALB	5K1025.D	11/02/06 01:33
B6F0041	8270 - 100ug/mL Basic Extractables	BA00069-CALC	5K1026.D	11/02/06 01:58
B6J0127	8270 - 8270 Tune Working Std	BA00069-TUN3	5KC002.D	11/08/06 09:45
B6K0041	8270 - BNA 10ug/mL std	BA00069-CALD	5KC004.D	11/08/06 11:20
B6K0040	8270 - BNA 20ug/mL std	BA00069-CALE	5KC005.D	11/08/06 11:44
B6K0039	8270 - BNA 40ug/mL std	BA00069-CALF	5KC006.D	11/08/06 12:09
B6K0038	8270 - BNA 60ug/mL std	BA00069-CALG	5KC007.D	11/08/06 12:34
B6K0037	8270 - BNA 80ug/mL std	BA00069-CALH	5KC008.D	11/08/06 12:58
B6K0036	8270 - BNA 100ug/mL std	BA00069-CALI	5KC009.D	11/08/06 13:23
B6K0103	8270 - 8270 Tune Working Std	BA00069-TUN1	5KX014.D	11/29/06 16:09
B6K0109	8270 Curve - 10ppm curve std	BA00069-CAL1	5KX015.D	11/29/06 16:27
B6K0108	8270 Curve - 20ppm curve std	BA00069-CAL2	5KX016.D	11/29/06 16:51
B6K0107	8270 Curve - 40ppm curve std	BA00069-CAL3	5KX017.D	11/29/06 17:15
B6K0106	8270 Curve - 60ppm curve std	BA00069-CAL4	5KX018.D	11/29/06 17:39
B6K0105	8270 Curve - 80ppm curve std	BA00069-CAL5	5KX019.D	11/29/06 18:04
B6K0104	8270 Curve - 100ppm curve std	BA00069-CAL6	5KX020.D	11/29/06 18:28

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-Nitrosodimethylamine	10	0.4964268	20	0.5277345	40	0.5482018	60	0.5827292	80	0.6157412	100	0.602332
Pyridine	10	0.9306704	20	0.9159353	40	1.071494	60	1.01036	80	1.197729	100	1.117927
Phenol	10	1.330628	20	1.376179	40	1.458102	60	1.514629	80	1.579525	100	1.642845
Bis(2-chloroethyl)ether	10	1.006809	20	1.090329	40	1.058509	60	1.162999	80	1.239082	100	1.124225
2-Chlorophenol	10	1.238006	20	1.275594	40	1.311284	60	1.369235	80	1.435097	100	1.454009
1,3-Dichlorobenzene	10	1.531021	20	1.565797	40	1.613213	60	1.658113	80	1.753095	100	1.784422
1,4-Dichlorobenzene	10	1.568059	20	1.578611	40	1.624154	60	1.670101	80	1.779942	100	1.811965
Benzyl alcohol	10	0.6132678	20	0.6650187	40	0.6984909	60	0.7173918	80	0.7353298	100	0.7685643
1,2-Dichlorobenzene	10	1.472081	20	1.493495	40	1.545308	60	1.584513	80	1.685822	100	1.704527
2-Methylphenol	10	0.8986873	20	0.9386047	40	0.961231	60	1.014081	80	1.079605	100	1.100432
Bis(2-chloroisopropyl)ether	10	1.251148	20	1.243308	40	1.255684	60	1.270256	80	1.316609	100	1.306108
3 & 4-Methylphenol	10	0.9701088	20	1.112654	40	1.195895	60	1.28864	80	1.383647	100	1.412573
N-Nitroso-di-n-propylamine	10	0.7142015	20	0.7326155	40	0.7797061	60	0.8043967	80	0.8236674	100	0.8202091
Hexachloroethane	10	0.5394735	20	0.5619577	40	0.5864849	60	0.6087177	80	0.642691	100	0.648266
Nitrobenzene	10	0.3213079	20	0.3309049	40	0.340389	60	0.3479078	80	0.3646575	100	0.3635761
Isophorone	10	0.5958257	20	0.6142448	40	0.6303841	60	0.6462449	80	0.674079	100	0.6650494
2-Nitrophenol	10	0.1759331	20	0.1988437	40	0.2086904	60	0.2192294	80	0.2326803	100	0.2367497
2,4-Dimethylphenol	10	0.267037	20	0.2916773	40	0.3087565	60	0.3257564	80	0.3520045	100	0.3542258
Bis(2-chloroethoxy)methane	10	0.3471067	20	0.3675633	40	0.3767686	60	0.3888625	80	0.4131033	100	0.4144742
Benzoic acid	10	7.619063E-02	20	0.1242922	40	0.168128	60	0.1872505	80	0.208727	100	0.2165841
2,4-Dichlorophenol	10	0.2866253	20	0.3288369	40	0.3542495	60	0.3712614	80	0.4047817	100	0.4084198
1,2,4-Trichlorobenzene	10	0.4109044	20	0.4318418	40	0.4476621	60	0.4619183	80	0.4956442	100	0.503065
Naphthalene	10	1.067465	20	1.096783	40	1.160657	60	1.211726	80	1.310322	100	1.332816
4-Chloroaniline	10	~~0.2416442~~	20	~~0.2046119~~	40	~~0.1159995~~	60	~~0.1914037~~	80	~~0.1430239~~	100	~~0.1766788~~
Hexachlorobutadiene	10	0.2134656	20	0.2136215	40	0.221122	60	0.2279349	80	0.2443493	100	0.2447346
4-Chloro-3-methylphenol	10	0.2650432	20	0.2849029	40	0.3005574	60	0.3123914	80	0.3316757	100	0.3350295
2-Methylnaphthalene	10	0.7202093	20	0.7323328	40	0.7803268	60	0.8145528	80	0.8790112	100	0.8967782
1-Methylnaphthalene	10	0.6397577	20	0.6763764	40	0.7013898	60	0.7329348	80	0.7864404	100	0.8032699
Hexachlorocyclopentadiene	10	4.648456E-02	20	5.861965E-02	40	0.1011695	60	0.1180499	80	0.1427039	100	0.1597847
2,4,6-Trichlorophenol	10	0.4278608	20	0.4599432	40	0.502035	60	0.5222753	80	0.5562078	100	0.5595013
2,4,5-Trichlorophenol	10	0.393873	20	0.4722299	40	0.4979738	60	0.5420085	80	0.5707454	100	0.5942817

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Chloronaphthalene	10	1.125331	20	1.199377	40	1.272072	60	1.343114	80	1.44868	100	1.461381
2-Nitroaniline	10	~~0.2371525~~	20	~~0.2568192~~	40	~~0.2414965~~	60	~~0.263215~~	80	~~0.2522292~~	100	~~0.2663903~~
Dimethylphthalate	10	1.305287	20	1.376992	40	1.437549	60	1.519333	80	1.595335	100	1.598855
2,6-Dinitrotoluene	10	0.2813424	20	0.2965819	40	0.3196733	60	0.3345966	80	0.3576967	100	0.3530863
Acenaphthylene	10	1.76189	20	1.862191	40	1.906777	60	1.985783	80	1.968355	100	1.77855
3-Nitroaniline	10	~~0.1747551~~	20	~~0.1266649~~	40	~~2.049078E-02~~	60	~~3.338961E-02~~	80	~~2.204432E-02~~	100	~~0.0538346~~
Acenaphthene	10	1.041191	20	1.098134	40	1.161151	60	1.240425	80	1.322695	100	1.341978
2,4-Dinitrophenol	10	3.464745E-02	20	8.960109E-02	40	0.1533252	60	0.1782393	80	0.2015708	100	0.2226298
4-Nitrophenol	10	0.101323	20	0.137244	40	0.1590824	60	0.1688	80	0.1796411	100	0.1815952
Dibenzofuran	10	1.629641	20	1.729622	40	1.818031	60	1.917882	80	2.060403	100	2.109912
2,4-Dinitrotoluene	10	0.3646564	20	0.3997727	40	0.4189329	60	0.44473	80	0.4676735	100	0.4799682
Diethylphthalate	10	1.260251	20	1.3168	40	1.376308	60	1.453797	80	1.526042	100	1.545639
4-Chlorophenyl-phenylether	10	0.7340136	20	0.7875367	40	0.827723	60	0.8773842	80	0.939409	100	0.9577766
Fluorene	10	1.351283	20	1.420157	40	1.505346	60	1.608656	80	1.708162	100	1.755311
4-Nitroaniline	10	~~0.1791933~~	20	~~0.1616877~~	40	~~0.1168238~~	60	~~0.1095802~~	80	~~0.1037411~~	100	~~9.295602E-02~~
2-Methyl-4,6-dinitrophenol	10	0.1478697	20	0.2108437	40	0.2600367	60	0.2885362	80	0.309297	100	0.3252287
N-Nitrosodiphenylamine	10	0.8496246	20	0.8334134	40	0.5558634	60	0.5268767	80	0.4186267	100	~~0.4304152~~
DPH (as Azobenzene)	10	0.2955088	20	0.3183113	40	0.3299878	60	0.3538401	80	0.370571	100	0.3777743
4-Bromophenyl-phenylether	10	0.2520347	20	0.2742017	40	0.2889974	60	0.3059996	80	0.3253096	100	0.3349183
Hexachlorobenzene	10	0.3404056	20	0.3602108	40	0.3811164	60	0.4020569	80	0.4367788	100	0.443389
Pentachlorophenol	10	5.554475E-02	20	0.1067779	40	0.1522757	60	0.1711415	80	0.1982624	100	0.2161174
Phenanthrene	10	1.138832	20	1.209172	40	1.271087	60	1.348976	80	1.45681	100	1.505084
Anthracene	10	1.142806	20	1.230773	40	1.289597	60	1.385105	80	1.497236	100	1.532357
Carbazole	10	~~0.7484264~~	20	~~0.4936377~~	40	~~0.1939748~~	60	~~0.18169~~	80	~~0.1548202~~	100	~~0.1354584~~
Di-n-butylphthalate	10	1.213996	20	1.28138	40	1.358097	60	1.432399	80	1.552332	100	1.578171
Fluoranthene	10	1.357448	20	1.437538	40	1.535082	60	1.633164	80	1.757527	100	1.81114
Benzidine	10	0.1288933	20	0.1154883	40	0.0783878	60	0.1345791	80	0.1452869	100	0.165156
Pyrene	10	1.421078	20	1.503103	40	1.606052	60	1.70754	80	1.829351	100	1.871101
1,1'-Biphenyl												
Atrazine												
Butylbenzylphthalate	10	0.5567735	20	0.5920196	40	0.6220171	60	0.6604351	80	0.7093197	100	0.7351588

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612007	Instrument:	JSVGCMS1
Matrix:	Water	Calibration Date:	11/01/06 16:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde												
3,3'-Dichlorobenzidine	10	0.4085538	20	0.4053029	40	0.3790526	60	0.3977995	80	0.4081247	100	0.4426037
Caprolactam												
Benzo(a)anthracene	10	1.378266	20	1.429694	40	1.443026	60	1.469047	80	1.536159	100	1.524055
Bis(2-ethylhexyl)phthalate	10	0.681197	20	0.713179	40	0.7566778	60	0.7865418	80	0.8438767	100	0.8389889
Chrysene	10	1.241067	20	1.314434	40	1.348267.	60	1.394853	80	1.466771	100	1.469608
Di-n-octylphthalate	10	1.139674	20	1.190193	40	1.22623	60	1.27156	80	1.361133	100	1.362415
Benzo(b)fluoranthene	10	1.228081	20	1.328663	40	1.419732	60	1.456191	80	1.67873	100	1.766897
Benzo(k)fluoranthene	10	1.222199	20	1.302169	40	1.409838	60	1.532701	80	1.551709	100	1.529051
Benzo(a)pyrene	10	1.125952	20	1.191706	40	1.26279	60	1.332139	80	1.433103	100	1.44902
Indeno(1,2,3-cd)pyrene	10	1.172195	20	1.320024	40	1.453564	60	1.536891	80	1.676158	100	1.713127
Dibenzo(a,h)anthracene	10	1.007644	20	1.130488	40	1.26612	60	1.354048	80	1.479822	100	1.513169
Benzo(g,h,i)perylene	10	0.9464023	20	1.026485	40	1.112641	60	1.174591	80	1.293265	100	1.311089
Acetophenone												
Aniline	10		20		40		60		80		100	
2-Fluorophenol	10	0.8942506	20	0.9035985	40	1.054158	60	1.087768	80	1.139282	100	1.152442
Phenol-d5	10	1.25199	20	1.306114	40	1.336654	60	1.385578	80	1.450203	100	1.459501
Nitrobenzene-d5	10	0.310559	20	0.3170373	40	0.3272429	60	0.3312393	80	0.3455971	100	0.3462697
2-Fluorobiphenyl	10	1.354024	20	1.429532	40	1.475582	60	1.558828	80	1.659271	100	1.68691
2,4,6-Tribromophenol	10	0.2147565	20	0.2323261	40	0.2622404	60	0.2805108	80	0.3046321	100	0.3200227
Terphenyl-d14	10	1.001313	20	1.089632	40	1.174286	60	1.246686	80	1.34246	100	1.397479

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-Nitrosodimethylamine												
Pyridine	10	~~1.0205~~	20	~~1.001603~~	40	~~1.179189~~	60	~~1.201498~~	80	~~1.15629~~	100	~~1.244943~~
Phenol												
Bis(2-chloroethyl)ether												
2-Chlorophenol												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Benzyl alcohol												
1,2-Dichlorobenzene												
2-Methylphenol												
Bis(2-chloroisopropyl)ether												
3 & 4-Methylphenol												
N-Nitroso-di-n-propylamine												
Hexachloroethane												
Nitrobenzene												
Isophorone												
2-Nitrophenol												
2,4-Dimethylphenol												
Bis(2-chloroethoxy)methane												
Benzoic acid												
2,4-Dichlorophenol												
1,2,4-Trichlorobenzene												
Naphthalene												
4-Chloroaniline	10	0.3960957	20	0.3906489	40	0.4188442	60	0.4195752	80	0.4194649	100	0.4485616
Hexachlorobutadiene												
4-Chloro-3-methylphenol												
2-Methylnaphthalene												
1-Methylnaphthalene												
Hexachlorocyclopentadiene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Chloronaphthalene												
2-Nitroaniline	10	0.2919919	20	0.2908554	40	0.3026454	60	0.298676	80	0.2927418	100	0.3111843
Dimethylphthalate												
2,6-Dinitrotoluene												
Acenaphthylene												
3-Nitroaniline	10	0.2830856	20	0.2920269	40	0.302506	60	0.3037333	80	0.2939973	100	0.3171624
Acenaphthene												
2,4-Dinitrophenol												
4-Nitrophenol												
Dibenzofuran												
2,4-Dinitrotoluene												
Diethylphthalate												
4-Chlorophenyl-phenylether												
Fluorene												
4-Nitroaniline	10	0.2284883	20	0.2139495	40	0.1740258	60	0.1690071	80	0.1547607	100	0.1651672
2-Methyl-4,6-dinitrophenol												
N-Nitrosodiphenylamine												
DPH (as Azobenzene)	10	~~0.309307~~	20	~~0.3142824~~	40	~~0.3251827~~	60	~~0.3324999~~	80	~~0.3336577~~	100	~~0.3628688~~
4-Bromophenyl-phenylether												
Hexachlorobenzene												
Pentachlorophenol												
Phenanthrene												
Anthracene												
Carbazole	10	0.9961421	20	1.020945	40	1.058574	60	1.071273	80	1.026922	100	1.121931
Di-n-butylphthalate												
Fluoranthene												
Benzidine												
Pyrene												
1,1'-Biphenyl												
Atrazine												
Butylbenzylphthalate												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde												
3,3'-Dichlorobenzidine												
Caprolactam												
Benzo(a)anthracene												
Bis(2-ethylhexyl)phthalate												
Chrysene												
Di-n-octylphthalate												
Benzo(b)fluoranthene												
Benzo(k)fluoranthene												
Benzo(a)pyrene												
Indeno(1,2,3-cd)pyrene												
Dibenzo(a,h)anthracene												
Benzo(g,h,i)perylene												
Acetophenone												
Aniline	10		20		40		60		80		100	
2-Fluorophenol												
Phenol-d5												
Nitrobenzene-d5												
2-Fluorobiphenyl												
2,4,6-Tribromophenol												
Terphenyl-d14												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
N-Nitrosodimethylamine	0.5621943	8.193294	2.633333	0.1963783			15	
Pyridine	1.040686	10.54051	2.655	0.3152727			15	
Phenol	1.483651	8.038196	4.49	0.1988276			CCC (30)	
Bis(2-chloroethyl)ether	1.113659	7.325752	4.556667	0.1139776			15	
2-Chlorophenol	1.347204	6.467657	4.633333	0.1110654			15	
1,3-Dichlorobenzene	1.650943	6.138832	4.766667	0.1073817			15	
1,4-Dichlorobenzene	1.672139	6.160618	4.83	7.874393E-03			CCC (30)	
Benzyl alcohol	0.6996772	7.828096	4.928333	0.1530624			15	
1,2-Dichlorobenzene	1.580958	6.136074	4.97	1.841074E-02			15	
2-Methylphenol	0.9987735	8.028501	5.025	0.1077882			15	
Bis(2-chloroisopropyl)ether	1.273852	2.396582	5.04	1.126358E-02			15	
3 & 4-Methylphenol	1.227253	13.77085	5.165	0.1066847			15	
N-Nitroso-di-n-propylamine	0.7791327	5.934358	5.165	0.1066847			SPCC (0.05)	
Hexachloroethane	0.5979318	7.288353	5.28	1.458778E-02			15	
Nitrobenzene	0.3447905	5.058405	5.343333	9.768688E-02			15	
Isophorone	0.637638	4.705682	5.558333	0.1350731			15	
2-Nitrophenol	0.2120211	10.70834	5.64	1.271817E-02			CCC (30)	
2,4-Dimethylphenol	0.3165763	10.84362	5.665	9.541788E-02			15	
Bis(2-chloroethoxy)methane	0.3846464	6.85909	5.745	9.546621E-02			15	
Benzoic acid	0.1635287	33.05464	5.776667	0.5760865		0.9993511	0.99	
2,4-Dichlorophenol	0.3590291	12.98021	5.873333	8.704164E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.458506	7.846046	5.95	2.172452E-02			15	
Naphthalene	1.196628	9.127504	6.033333	8.235539E-02			15	
4-Chloroaniline	0.4155317	4.96787	6.123333	8.439695E-02			15	
Hexachlorobutadiene	0.227538	6.250511	6.14	2.432736E-02			CCC (30)	
4-Chloro-3-methylphenol	0.3049334	8.90665	6.541667	6.167171E-02			CCC (30)	
2-Methylnaphthalene	0.8038685	9.152093	6.701667	5.768975E-02			15	
1-Methylnaphthalene	0.7233615	8.772933	6.803333	7.451198E-02			15	
Hexachlorocyclopentadiene	0.1044687	43.19495	6.85	2.203062E-02		0.9975833	SPCC (0.05)	
2,4,6-Trichlorophenol	0.5046372	10.44058	6.98	1.920615E-02			CCC (30)	
2,4,5-Trichlorophenol	0.5118521	14.31777	7.02	9.988165E-03			15	
2-Chloronaphthalene	1.308326	10.31183	7.186667	7.386857E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2-Nitroaniline	0.2980158	2.644876	7.333333	6.876746E-02			15	
Dimethylphthalate	1.472225	8.125445	7.446667	7.018927E-02			15	
2,6-Dinitrotoluene	0.3238295	9.451377	7.518333	0.1008388			15	
Acenaphthylene	1.877258	5.01001	7.603333	6.753869E-02			15	
3-Nitroaniline	0.2987519	3.935311	7.738333	9.695871E-02			15	
Acenaphthene	1.200929	10.12647	7.773333	6.531179E-02			CCC (30)	
2,4-Dinitrophenol	0.1466689	48.81555	7.8	8.191584E-02		0.9994468	SPCC (0.05)	
4-Nitrophenol	0.1546143	19.86585	7.873333	6.493114E-02	0.9991882		SPCC (0.05)	
Dibenzofuran	1.877582	9.990709	7.946667	6.414562E-02			15	
2,4-Dinitrotoluene	0.429289	10.11951	7.925	7.111193E-02			15	
Diethylphthalate	1.41314	8.128289	8.145	6.657746E-02			15	
4-Chlorophenyl-phenylether	0.8539739	10.22404	8.27	1.557433E-02			15	
Fluorene	1.558152	10.29066	8.286667	6.113085E-02			15	
4-Nitroaniline	0.1842331	16.11958	8.341667	8.993467E-02	0.9944372		0.99	
2-Methyl-4,6-dinitrophenol	0.2569687	26.06665	8.336667	9.857811E-02		0.9998563	0.99	
N-Nitrosodiphenylamine	0.636881	30.42456	8.39	1.081293E-02			CCC (30)	
DPH (as Azobenzene)	0.3409989	9.363236	8.433333	0.0576731			15	
4-Bromophenyl-phenylether	0.2969102	10.57137	8.761667	4.475687E-02			15	
Hexachlorobenzene	0.3939929	10.47371	8.845	6.172816E-02			15	
Pentachlorophenol	0.1500199	39.93116	9.04	2.281919E-02		0.9994615	CCC (30)	
Phenanthrene	1.32166	10.76925	9.255	5.926022E-02			15	
Anthracene	1.346312	11.35618	9.305	0.0608593			15	
Carbazole	1.049298	4.256642	9.506667	5.204911E-02			15	
Di-n-butylphthalate	1.402729	10.39847	9.766667	5.554465E-02			15	
Fluoranthene	1.58865	11.23068	10.445	5.421693E-02			CCC (30)	
Benzidine	0.1279652	23.02702	10.56167	4.046433E-02		0.97494	0.99	*
Pyrene	1.656371	10.80103	10.67667	0.0491134			15	
1,1'-Biphenyl	1.497159	7.675694	7.211667	5.560347E-02			15	
Atrazine	0.2693472	7.97944	8.966667	5.956773E-02			15	
Butylbenzylphthalate	0.645954	10.63971	11.26667	4.492072E-02			15	
Benzaldehyde	1.106363	5.270253	4.49	2.212579E-02			15	
3,3'-Dichlorobenzidine	0.4069062	5.084068	11.82333	3.981086E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612007	Instrument:	JSVGCMS1
Matrix:	Water	Calibration Date:	11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Caprolactam	0.1078949	13.19479	6.453333	0.1882893			15	
Benzo(a)anthracene	1.463374	4.077702	11.865	4.565219E-02			15	
Bis(2-ethylhexyl)phthalate	0.7700769	8.571151	11.81667	3.787649E-02			15	
Chrysene	1.3725	6.520869	11.90333	6.741974E-02			15	
Di-n-octylphthalate	1.258534	7.224001	12.42167	3.993896E-02			CCC (30)	
Benzo(b)fluoranthene	1.479716	13.92776	12.88167	0.0619947			15	
Benzo(k)fluoranthene	1.424611	9.671884	12.90833	5.682324E-02			15	
Benzo(a)pyrene	1.299118	9.99828	13.21	6.667204E-02			CCC (30)	
Indeno(1,2,3-cd)pyrene	1.47866	14.09171	14.525	0.1287234			15	
Dibenzo(a,h)anthracene	1.291882	15.31227	14.525	0.1287234	0.9967171		0.995	
Benzo(g,h,i)perylene	1.144079	12.66476	14.9	0.1199012			15	
Acetophenone	1.606089	7.993928	5.23	1.686226E-02			15	
Aniline							15	
2-Fluorophenol	1.038583	10.96286	3.703333	0.1396023			15	
Phenol-d5	1.365007	6.010489	4.476667	0.1152809			15	
Nitrobenzene-d5	0.3296576	4.421747	5.323333	9.806076E-02			15	
2-Fluorobiphenyl	1.527358	8.59381	7.055	7.664578E-02			15	
2,4,6-Tribromophenol	0.2690814	15.17659	8.531666	4.779001E-02			15	
Terphenyl-d14	1.208643	12.45703	10.80167	4.106554E-02			15	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00114	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00114-CCV1)			Lab File ID: 5LC006.D		Analyzed: 12/08/06 12:27			
2-Fluorophenol	40.0	99	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	40.0	98	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	40.0	97	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	40.0	109	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	40.0	105	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
Blank (6L07001-BLK1)			Lab File ID: 5LC010.D		Analyzed: 12/08/06 15:26			
2-Fluorophenol	100	54	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	50.0	102	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	90	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	115	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	109	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
LCS (6L07001-BS1)			Lab File ID: 5LC011.D		Analyzed: 12/08/06 15:50			
2-Fluorophenol	100	43	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	50.0	73	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	69	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	95	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	85	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
Matrix Spike (6L07001-MS1)			Lab File ID: 5LC012.D		Analyzed: 12/08/06 16:14			
2-Fluorophenol	100	39	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	50.0	70	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	69	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	98	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	86	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
Matrix Spike Dup (6L07001-MSD1)			Lab File ID: 5LC013.D		Analyzed: 12/08/06 16:38			
2-Fluorophenol	100	37	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	50.0	67	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	65	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	91	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	84	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00114	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-937MW2S-113006 (B610359-01)			Lab File ID: 5LC017.D		Analyzed: 12/08/06 18:15			
2-Fluorophenol	100	54	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	41	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	71	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	71	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	101	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	82	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-937MW6D-113006 (B610359-02)			Lab File ID: 5LC018.D		Analyzed: 12/08/06 18:39			
2-Fluorophenol	100	54	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	42	10 - 94	4.45	4.476667	-0.0267	+/-0.1	
Nitrobenzene-d5	50.0	76	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	69	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	95	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	86	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-937MW10S-113006 (B610359-03)			Lab File ID: 5LC019.D		Analyzed: 12/08/06 19:03			
2-Fluorophenol	100	36	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	22	10 - 94	4.45	4.476667	-0.0267	+/-0.1	
Nitrobenzene-d5	50.0	62	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	59	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	89	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	79	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW18D-113006 (B610359-04)			Lab File ID: 5LC020.D		Analyzed: 12/08/06 19:27			
2-Fluorophenol	100	42	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	26	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	71	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	63	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	88	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	79	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW18S-113006 (B610359-05)			Lab File ID: 5LC021.D		Analyzed: 12/08/06 19:51			
2-Fluorophenol	100	36	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	24	10 - 94	4.45	4.476667	-0.0267	+/-0.1	
Nitrobenzene-d5	50.0	61	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	60	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	96	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	90	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00114	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW20S-113006 (B610359-06)			Lab File ID: 5LC022.D		Analyzed: 12/08/06 20:15			
2-Fluorophenol	100	35	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	23	10 - 94	4.45	4.476667	-0.0267	+/-0.1	
Nitrobenzene-d5	50.0	63	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	56	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	83	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	76	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW27S-113006 (B610359-07)			Lab File ID: 5LC023.D		Analyzed: 12/08/06 20:39			
2-Fluorophenol	100	37	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	23	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	64	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	53	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	79	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	73	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
USGS-SSMW45-113006 (B610359-09)			Lab File ID: 5LC024.D		Analyzed: 12/08/06 21:03			
2-Fluorophenol	100	35	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	23	10 - 94	4.45	4.476667	-0.0267	+/-0.1	
Nitrobenzene-d5	50.0	63	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	53	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	76	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	78	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-DU01-120106 (B610359-10)			Lab File ID: 5LC025.D		Analyzed: 12/08/06 21:27			
2-Fluorophenol	100	45	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	29	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	72	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	58	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	106	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	89	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW13D-120106 (B610359-11)			Lab File ID: 5LC026.D		Analyzed: 12/08/06 21:51			
2-Fluorophenol	100	29	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	20	10 - 94	4.45	4.476667	-0.0267	+/-0.1	
Nitrobenzene-d5	50.0	55	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	38	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	77	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	79	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00114	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW13S-120106 (B610359-12)			Lab File ID: 5LC027.D		Analyzed: 12/08/06 22:15			
2-Fluorophenol	100	44	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	27	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	71	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	53	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	106	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	90	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-937MW2S-113006 (B610359-01RE1)			Lab File ID: 5LC028.D		Analyzed: 12/08/06 22:39			
2-Fluorophenol	100	46	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Phenol-d5	100	33	10 - 94	4.46	4.476667	-0.0167	+/-0.1	
Nitrobenzene-d5	50.0	54	40 - 110	5.3	5.323333	-0.0233	+/-0.1	
2-Fluorobiphenyl	50.0	64	50 - 110	7.03	7.055	-0.0250	+/-0.1	
2,4,6-Tribromophenol	100	71	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	71	50 - 135	10.77	10.80167	-0.0317	+/-0.1	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00114	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (6L07001-BLK1)			Lab File ID: 5LC010.D			Analyzed: 12/08/06 15:26			
1,4-Dichlorobenzene-d4	144657	4.79	168681	4.79	86	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	486896	5.98	582734	5.98	84	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	328579	7.71	385162	7.71	85	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	589556	9.2	672932	9.2	88	50 - 200	0.0000	+/-0.05	
Chrysene-d12	674936	11.85	722963	11.85	93	50 - 200	0.0000	+/-0.05	
Perylene-d12	692464	13.24	584124	13.24	119	50 - 200	0.0000	+/-0.05	
JAX47-937MW2S-113006 (B610359-01)			Lab File ID: 5LC017.D			Analyzed: 12/08/06 18:15			
1,4-Dichlorobenzene-d4	188862	4.79	168681	4.79	112	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	654545	5.98	582734	5.98	112	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	438864	7.72	385162	7.71	114	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	791842	9.2	672932	9.2	118	50 - 200	0.0000	+/-0.05	
Chrysene-d12	876067	11.87	722963	11.85	121	50 - 200	0.0200	+/-0.05	
Perylene-d12	922699	13.24	584124	13.24	158	50 - 200	0.0000	+/-0.05	
JAX47-937MW6D-113006 (B610359-02)			Lab File ID: 5LC018.D			Analyzed: 12/08/06 18:39			
1,4-Dichlorobenzene-d4	176429	4.79	168681	4.79	105	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	588299	5.98	582734	5.98	101	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	392326	7.71	385162	7.71	102	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	696013	9.2	672932	9.2	103	50 - 200	0.0000	+/-0.05	
Chrysene-d12	823260	11.85	722963	11.85	114	50 - 200	0.0000	+/-0.05	
Perylene-d12	849897	13.24	584124	13.24	145	50 - 200	0.0000	+/-0.05	
JAX47-937MW10S-113006 (B610359-03)			Lab File ID: 5LC019.D			Analyzed: 12/08/06 19:03			
1,4-Dichlorobenzene-d4	188588	4.79	168681	4.79	112	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	635268	5.98	582734	5.98	109	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	418797	7.71	385162	7.71	109	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	754765	9.2	672932	9.2	112	50 - 200	0.0000	+/-0.05	
Chrysene-d12	875874	11.85	722963	11.85	121	50 - 200	0.0000	+/-0.05	
Perylene-d12	898621	13.24	584124	13.24	154	50 - 200	0.0000	+/-0.05	
JAX47-MW18D-113006 (B610359-04)			Lab File ID: 5LC020.D			Analyzed: 12/08/06 19:27			
1,4-Dichlorobenzene-d4	191338	4.79	168681	4.79	113	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	648020	5.98	582734	5.98	111	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	432219	7.71	385162	7.71	112	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	772275	9.2	672932	9.2	115	50 - 200	0.0000	+/-0.05	
Chrysene-d12	898343	11.85	722963	11.85	124	50 - 200	0.0000	+/-0.05	
Perylene-d12	925647	13.24	584124	13.24	158	50 - 200	0.0000	+/-0.05	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00114	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-MW18S-113006 (B610359-05)			Lab File ID: 5LC021.D			Analyzed: 12/08/06 19:51			
1,4-Dichlorobenzene-d4	188956	4.79	168681	4.79	112	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	635647	5.98	582734	5.98	109	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	431996	7.72	385162	7.71	112	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	787145	9.2	672932	9.2	117	50 - 200	0.0000	+/-0.05	
Chrysene-d12	987826	11.85	722963	11.85	137	50 - 200	0.0000	+/-0.05	
Perylene-d12	1041936	13.24	584124	13.24	178	50 - 200	0.0000	+/-0.05	
JAX47-MW20S-113006 (B610359-06)			Lab File ID: 5LC022.D			Analyzed: 12/08/06 20:15			
1,4-Dichlorobenzene-d4	212018	4.79	168681	4.79	126	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	703711	5.98	582734	5.98	121	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	469573	7.72	385162	7.71	122	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	845075	9.2	672932	9.2	126	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1013138	11.85	722963	11.85	140	50 - 200	0.0000	+/-0.05	
Perylene-d12	1060801	13.24	584124	13.24	182	50 - 200	0.0000	+/-0.05	
JAX47-MW27S-113006 (B610359-07)			Lab File ID: 5LC023.D			Analyzed: 12/08/06 20:39			
1,4-Dichlorobenzene-d4	216943	4.79	168681	4.79	129	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	734442	5.98	582734	5.98	126	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	498028	7.72	385162	7.71	129	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	900486	9.2	672932	9.2	134	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1058837	11.85	722963	11.85	146	50 - 200	0.0000	+/-0.05	
Perylene-d12	1092867	13.24	584124	13.24	187	50 - 200	0.0000	+/-0.05	
USGS-SSMW45-113006 (B610359-09)			Lab File ID: 5LC024.D			Analyzed: 12/08/06 21:03			
1,4-Dichlorobenzene-d4	208576	4.79	168681	4.79	124	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	699494	5.98	582734	5.98	120	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	462910	7.72	385162	7.71	120	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	813566	9.2	672932	9.2	121	50 - 200	0.0000	+/-0.05	
Chrysene-d12	938327	11.85	722963	11.85	130	50 - 200	0.0000	+/-0.05	
Perylene-d12	994715	13.24	584124	13.24	170	50 - 200	0.0000	+/-0.05	
JAX47-DU01-120106 (B610359-10)			Lab File ID: 5LC025.D			Analyzed: 12/08/06 21:27			
1,4-Dichlorobenzene-d4	221458	4.79	168681	4.79	131	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	765530	5.98	582734	5.98	131	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	504491	7.72	385162	7.71	131	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	910176	9.2	672932	9.2	135	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1086426	11.85	722963	11.85	150	50 - 200	0.0000	+/-0.05	
Perylene-d12	1132880	13.24	584124	13.24	194	50 - 200	0.0000	+/-0.05	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00114	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-MW13D-120106 (B610359-11)			Lab File ID: 5LC026.D			Analyzed: 12/08/06 21:51			
1,4-Dichlorobenzene-d4	210146	4.79	168681	4.79	125	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	716213	5.98	582734	5.98	123	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	469221	7.71	385162	7.71	122	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	838410	9.2	672932	9.2	125	50 - 200	0.0000	+/-0.05	
Chrysene-d12	962835	11.85	722963	11.85	133	50 - 200	0.0000	+/-0.05	
Perylene-d12	1028329	13.24	584124	13.24	176	50 - 200	0.0000	+/-0.05	
JAX47-MW13S-120106 (B610359-12)			Lab File ID: 5LC027.D			Analyzed: 12/08/06 22:15			
1,4-Dichlorobenzene-d4	231751	4.79	168681	4.79	137	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	800576	5.98	582734	5.98	137	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	531813	7.72	385162	7.71	138	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	943532	9.2	672932	9.2	140	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1141073	11.85	722963	11.85	158	50 - 200	0.0000	+/-0.05	
Perylene-d12	1183025	13.24	584124	13.24	203	50 - 200	0.0000	+/-0.05	
JAX47-937MW2S-113006 (B610359-01RE1)			Lab File ID: 5LC028.D			Analyzed: 12/08/06 22:39			
1,4-Dichlorobenzene-d4	193316	4.79	168681	4.79	115	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	680198	5.98	582734	5.98	117	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	440039	7.71	385162	7.71	114	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	771542	9.2	672932	9.2	115	50 - 200	0.0000	+/-0.05	
Chrysene-d12	897687	11.85	722963	11.85	124	50 - 200	0.0000	+/-0.05	
Perylene-d12	943068	13.24	584124	13.24	161	50 - 200	0.0000	+/-0.05	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00088	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Instrument Blank (BA00088-IBL1)			Lab File ID: 9LBA001B-0		Analyzed: 12/08/06 10:21			
2,4,5,6-TCMX			25 - 140	6.579	6.578857	0.0001	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.29	6.311	-0.0210	+/-0.3	
DBC			30 - 135	13.877	13.85357	0.0234	+/-0.3	
DBC [2C]			30 - 135	13.636	13.67986	-0.0439	+/-0.3	
Calibration Check (BA00088-CCV1)			Lab File ID: 9LBA003B-0		Analyzed: 12/08/06 11:13			
2,4,5,6-TCMX	0.100	89	25 - 140	6.558	6.578857	-0.0209	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	84	25 - 140	6.292	6.311	-0.0190	+/-0.3	
DBC	0.100	92	30 - 135	13.835	13.85357	-0.0186	+/-0.3	
DBC [2C]	0.100	87	30 - 135	13.662	13.67986	-0.0179	+/-0.3	
Blank (6L07002-BLK1)			Lab File ID: 9LBA004B-0		Analyzed: 12/08/06 11:39			
2,4,5,6-TCMX	1.00	75	25 - 140	6.561	6.578857	-0.0179	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	72	25 - 140	6.295	6.311	-0.0160	+/-0.3	
DBC	1.00	76	30 - 135	13.837	13.85357	-0.0166	+/-0.3	
DBC [2C]	1.00	73	30 - 135	13.665	13.67986	-0.0149	+/-0.3	
LCS (6L07002-BS1)			Lab File ID: 9LBA005A-0		Analyzed: 12/08/06 12:05			
2,4,5,6-TCMX	1.00	70	25 - 140	6.561	6.578857	-0.0179	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	68	25 - 140	6.296	6.311	-0.0150	+/-0.3	
DBC	1.00	72	30 - 135	13.838	13.85357	-0.0156	+/-0.3	
DBC [2C]	1.00	69	30 - 135	13.665	13.67986	-0.0149	+/-0.3	
Matrix Spike (6L07002-MS1)			Lab File ID: 9LBA006A-0		Analyzed: 12/08/06 12:31			
2,4,5,6-TCMX	1.00	70	25 - 140	6.563	6.578857	-0.0159	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	68	25 - 140	6.297	6.311	-0.0140	+/-0.3	
DBC	1.00	68	30 - 135	13.839	13.85357	-0.0146	+/-0.3	
DBC [2C]	1.00	66	30 - 135	13.666	13.67986	-0.0139	+/-0.3	
Matrix Spike Dup (6L07002-MSD1)			Lab File ID: 9LBA007A-0		Analyzed: 12/08/06 12:57			
2,4,5,6-TCMX	1.00	70	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	68	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	1.00	67	30 - 135	13.839	13.85357	-0.0146	+/-0.3	
DBC [2C]	1.00	66	30 - 135	13.666	13.67986	-0.0139	+/-0.3	
JAX47-937MW2S-113006 (B610359-01)			Lab File ID: 9LBA009A-0		Analyzed: 12/08/06 13:49			
2,4,5,6-TCMX	1.00	75	25 - 140	6.563	6.578857	-0.0159	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	84	25 - 140	6.296	6.311	-0.0150	+/-0.3	
DBC	1.00	167	30 - 135	13.843	13.85357	-0.0106	+/-0.3	*
DBC [2C]	1.00	87	30 - 135	13.667	13.67986	-0.0129	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00088	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-937MW6D-113006 (B610359-02)			Lab File ID: 9LBA010A-0		Analyzed: 12/08/06 14:15			
2,4,5,6-TCMX	1.00	61	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	58	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	1.00	72	30 - 135	13.839	13.85357	-0.0146	+/-0.3	
DBC [2C]	1.00	69	30 - 135	13.667	13.67986	-0.0129	+/-0.3	
JAX47-937MW10S-113006 (B610359-03)			Lab File ID: 9LBA011A-0		Analyzed: 12/08/06 14:41			
2,4,5,6-TCMX	1.00	66	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	64	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	1.00	76	30 - 135	13.84	13.85357	-0.0136	+/-0.3	
DBC [2C]	1.00	72	30 - 135	13.668	13.67986	-0.0119	+/-0.3	
JAX47-MW18D-113006 (B610359-04)			Lab File ID: 9LBA012-0		Analyzed: 12/08/06 15:07			
2,4,5,6-TCMX	1.00	66	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	63	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	1.00	78	30 - 135	13.839	13.85357	-0.0146	+/-0.3	
DBC [2C]	1.00	74	30 - 135	13.667	13.67986	-0.0129	+/-0.3	
JAX47-MW18S-113006 (B610359-05)			Lab File ID: 9LBA013-0		Analyzed: 12/08/06 15:33			
2,4,5,6-TCMX	1.00	66	25 - 140	6.563	6.578857	-0.0159	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	62	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	1.00	77	30 - 135	13.839	13.85357	-0.0146	+/-0.3	
DBC [2C]	1.00	73	30 - 135	13.666	13.67986	-0.0139	+/-0.3	
Calibration Check (BA00088-CCV2)			Lab File ID: 9LBA014-0		Analyzed: 12/08/06 15:59			
2,4,5,6-TCMX	0.100	94	25 - 140	6.565	6.578857	-0.0139	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	90	25 - 140	6.299	6.311	-0.0120	+/-0.3	
DBC	0.100	97	30 - 135	13.841	13.85357	-0.0126	+/-0.3	
DBC [2C]	0.100	94	30 - 135	13.668	13.67986	-0.0119	+/-0.3	
JAX47-MW20S-113006 (B610359-06)			Lab File ID: 9LBA015-0		Analyzed: 12/08/06 16:25			
2,4,5,6-TCMX	1.00	66	25 - 140	6.565	6.578857	-0.0139	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	62	25 - 140	6.299	6.311	-0.0120	+/-0.3	
DBC	1.00	77	30 - 135	13.84	13.85357	-0.0136	+/-0.3	
DBC [2C]	1.00	74	30 - 135	13.666	13.67986	-0.0139	+/-0.3	
JAX47-MW27S-113006 (B610359-07)			Lab File ID: 9LBA016-0		Analyzed: 12/08/06 16:51			
2,4,5,6-TCMX	1.00	58	25 - 140	6.563	6.578857	-0.0159	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	53	25 - 140	6.297	6.311	-0.0140	+/-0.3	
DBC	1.00	76	30 - 135	13.839	13.85357	-0.0146	+/-0.3	
DBC [2C]	1.00	72	30 - 135	13.665	13.67986	-0.0149	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00088	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-R01-113006 (B610359-08)			Lab File ID: 9LBA017-0		Analyzed: 12/08/06 17:17			
2,4,5,6-TCMX	1.00	67	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	68	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	1.00	77	30 - 135	13.84	13.85357	-0.0136	+/-0.3	
DBC [2C]	1.00	74	30 - 135	13.668	13.67986	-0.0119	+/-0.3	
USGS-SSMW45-113006 (B610359-09)			Lab File ID: 9LBA018-0		Analyzed: 12/08/06 17:43			
2,4,5,6-TCMX	1.00	59	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	56	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	1.00	71	30 - 135	13.84	13.85357	-0.0136	+/-0.3	
DBC [2C]	1.00	67	30 - 135	13.668	13.67986	-0.0119	+/-0.3	
JAX47-DU01-120106 (B610359-10)			Lab File ID: 9LBA019-0		Analyzed: 12/08/06 18:09			
2,4,5,6-TCMX	1.00	55	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	50	25 - 140	6.299	6.311	-0.0120	+/-0.3	
DBC	1.00	72	30 - 135	13.838	13.85357	-0.0156	+/-0.3	
DBC [2C]	1.00	66	30 - 135	13.665	13.67986	-0.0149	+/-0.3	
JAX47-MW13D-120106 (B610359-11)			Lab File ID: 9LBA020-0		Analyzed: 12/08/06 18:35			
2,4,5,6-TCMX	1.00	62	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	59	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	1.00	72	30 - 135	13.84	13.85357	-0.0136	+/-0.3	
DBC [2C]	1.00	69	30 - 135	13.666	13.67986	-0.0139	+/-0.3	
JAX47-MW13S-120106 (B610359-12)			Lab File ID: 9LBA021-0		Analyzed: 12/08/06 19:01			
2,4,5,6-TCMX	1.00	53	25 - 140	6.566	6.578857	-0.0129	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	48	25 - 140	6.3	6.311	-0.0110	+/-0.3	
DBC	1.00	71	30 - 135	13.84	13.85357	-0.0136	+/-0.3	
DBC [2C]	1.00	65	30 - 135	13.667	13.67986	-0.0129	+/-0.3	
Calibration Check (BA00088-CCV3)			Lab File ID: 9LBA022-0		Analyzed: 12/08/06 19:27			
2,4,5,6-TCMX	0.100	98	25 - 140	6.564	6.578857	-0.0149	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	93	25 - 140	6.298	6.311	-0.0130	+/-0.3	
DBC	0.100	103	30 - 135	13.84	13.85357	-0.0136	+/-0.3	
DBC [2C]	0.100	98	30 - 135	13.667	13.67986	-0.0129	+/-0.3	
Instrument Blank (BA00088-IBL2)			Lab File ID: 9LGA001-0		Analyzed: 12/12/06 16:33			
2,4,5,6-TCMX			25 - 140	6.851	6.578857	0.2721	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.567	6.311	0.2560	+/-0.3	
DBC			30 - 135	14.111	13.85357	0.2574	+/-0.3	
DBC [2C]			30 - 135	13.935	13.67986	0.2551	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00088	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00088-CCV4)			Lab File ID: 9LGA041-0		Analyzed: 12/13/06 07:03			
2,4,5,6-TCMX	0.100	94	25 - 140	6.849	6.578857	0.2701	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	96	25 - 140	6.566	6.311	0.2550	+/-0.3	
DBC	0.100	94	30 - 135	14.103	13.85357	0.2494	+/-0.3	
DBC [2C]	0.100	96	30 - 135	13.911	13.67986	0.2311	+/-0.3	
Calibration Check (BA00088-CCV5)			Lab File ID: 9LGA046-0		Analyzed: 12/13/06 09:13			
2,4,5,6-TCMX	0.100	96	25 - 140	6.85	6.578857	0.2711	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	96	25 - 140	6.566	6.311	0.2550	+/-0.3	
DBC	0.100	95	30 - 135	14.102	13.85357	0.2484	+/-0.3	
DBC [2C]	0.100	98	30 - 135	13.91	13.67986	0.2301	+/-0.3	
Instrument Blank (BA00088-IBL3)			Lab File ID: 9A5A001A-0		Analyzed: 01/05/07 12:56			
2,4,5,6-TCMX			25 - 140	6.537	6.578857	-0.0419	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.257	6.311	-0.0540	+/-0.3	
DBC			55 - 150	13.866	13.85357	0.0124	+/-0.3	
DBC [2C]			50 - 150	13.707	13.67986	0.0271	+/-0.3	
Calibration Check (BA00088-CCV6)			Lab File ID: 9A5A011-0		Analyzed: 01/05/07 17:58			
2,4,5,6-TCMX	0.100	104	79.6 - 120.4	6.582	6.578857	0.0031	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	100	79.6 - 120.4	6.321	6.311	0.0100	+/-0.3	
DBC	0.100	99	79.6 - 120.4	13.853	13.85357	-0.0006	+/-0.3	
DBC [2C]	0.100	96	79.6 - 120.4	13.687	13.67986	0.0071	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00142	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00142-CCV4)			Lab File ID: 9LGA046-0		Analyzed: 12/13/06 09:13			
2,4,5,6-TCMX	0.100	96	25 - 140	6.85	6.578857	0.2711	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	96	25 - 140	6.566	6.311	0.2550	+/-0.3	
DBC	0.100	95	55 - 150	14.102	13.85357	0.2484	+/-0.3	
DBC [2C]	0.100	98	50 - 150	13.91	13.67986	0.2301	+/-0.3	
Instrument Blank (BA00142-IBL1)			Lab File ID: 9A5A001A-0		Analyzed: 01/05/07 12:56			
2,4,5,6-TCMX			25 - 140	6.537	6.578857	-0.0419	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.257	6.311	-0.0540	+/-0.3	
DBC			55 - 150	13.866	13.85357	0.0124	+/-0.3	
DBC [2C]			50 - 150	13.707	13.67986	0.0271	+/-0.3	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00142	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00142-IBL1	9A5B001A-0	01/05/07 12:56
Instrument Blank	BA00142-IBL1	9A5A001A-0	01/05/07 12:56
Performance Mix	BA00142-PEM1	9A5B002A-0	01/05/07 14:05
Performance Mix	BA00142-PEM1	9A5A002A-0	01/05/07 14:05
JAX47-DU01-120106	B610359-10RE1	9A5B012-0	01/05/07 18:24
JAX47-DU01-120106	B610359-10RE1	9A5A012-0	01/05/07 18:24
JAX47-MW13S-120106	B610359-12RE1	9LGB045-0	12/13/06 08:47
JAX47-MW13S-120106	B610359-12RE1	9LGA045-0	12/13/06 08:47
Calibration Check	BA00142-CCV4	9LGB046-0	12/13/06 09:13
Calibration Check	BA00142-CCV4	9LGA046-0	12/13/06 09:13

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00120	Instrument:	JSVGCECD2
Calibration:	0612019		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00120-CAL1	9L1B006-0	12/01/06 16:41
B6H0044	608/8081 - .005 ppm curve solution	BA00120-CAL1	9L1A006-0	12/01/06 16:41
B6H0045	608/8081 - .010 ppm curve solution	BA00120-CAL2	9L1B007-0	12/01/06 17:07
B6H0045	608/8081 - .010 ppm curve solution	BA00120-CAL2	9L1A007-0	12/01/06 17:07
B6H0046	608/8081 - .025 ppm curve solution	BA00120-CAL3	9L1B008-0	12/01/06 17:33
B6H0046	608/8081 - .025 ppm curve solution	BA00120-CAL3	9L1A008-0	12/01/06 17:33
B6H0047	608/8081 - .05 ppm curve solution	BA00120-CAL4	9L1B009-0	12/01/06 17:59
B6H0047	608/8081 - .05 ppm curve solution	BA00120-CAL4	9L1A009-0	12/01/06 17:59
B6H0048	608/8081 - .10 ppm curve solution	BA00120-CAL5	9L1B010-0	12/01/06 18:25
B6H0048	608/8081 - .10 ppm curve solution	BA00120-CAL5	9L1A010-0	12/01/06 18:25
B6H0049	608/8081 - .15 ppm curve solution	BA00120-CAL6	9L1B011-0	12/01/06 18:51
B6H0049	608/8081 - .15 ppm curve solution	BA00120-CAL6	9L1A011-0	12/01/06 18:51
B6H0050	608/8081 - .20 ppm curve solution	BA00120-CAL7	9L1B012-0	12/01/06 19:17
B6H0050	608/8081 - .20 ppm curve solution	BA00120-CAL7	9L1A012-0	12/01/06 19:17

HOLDING TIME SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-937MW2S-113006	11/30/06 16:10	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 13:49	1.00	40.00	
JAX47-937MW6D-113006	11/30/06 14:50	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 14:15	1.00	40.00	
JAX47-937MW10S-113006	11/30/06 16:15	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 14:41	1.00	40.00	
JAX47-MW18D-113006	11/30/06 10:10	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 15:07	1.00	40.00	
JAX47-MW18S-113006	11/30/06 12:07	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 15:33	1.00	40.00	
JAX47-MW20S-113006	11/30/06 13:45	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 16:25	1.00	40.00	
JAX47-MW27S-113006	11/30/06 11:15	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 16:51	1.00	40.00	
JAX47-R01-113006	11/30/06 15:01	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 17:17	1.00	40.00	
USGS-SSMW45-113006	11/30/06 15:10	12/01/06 16:50	12/07/06 11:12	7.00	7.00	12/08/06 17:43	1.00	40.00	
JAX47-DU01-120106	12/01/06 00:00	12/01/06 16:50	12/07/06 11:12	6.00	7.00	12/08/06 18:09	1.00	40.00	
JAX47-DU01-120106	12/01/06 00:00	12/01/06 16:50	12/07/06 11:12	6.00	7.00	01/05/07 18:24	29.00	40.00	
JAX47-MW13D-120106	12/01/06 10:45	12/01/06 16:50	12/07/06 11:12	6.00	7.00	12/08/06 18:35	1.00	40.00	
JAX47-MW13S-120106	12/01/06 09:30	12/01/06 16:50	12/07/06 11:12	6.00	7.00	12/08/06 19:01	1.00	40.00	
JAX47-MW13S-120106	12/01/06 09:30	12/01/06 16:50	12/07/06 11:12	6.00	7.00	12/13/06 08:47	6.00	40.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-010

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.001	0.05	ug/L
gamma-BHC	0.002	0.05	ug/L
beta-BHC	0.002	0.05	ug/L
delta-BHC	0.001	0.05	ug/L
Heptachlor	0.001	0.05	ug/L
Aldrin	0.002	0.05	ug/L
Heptachlor epoxide	0.001	0.05	ug/L
Chlordane-gamma	0.001	0.05	ug/L
Chlordane-alpha	0.001	0.05	ug/L
4,4′-DDE	0.002	0.05	ug/L
Endosulfan I	0.002	0.05	ug/L
Dieldrin	0.0008	0.05	ug/L
Endrin	0.002	0.05	ug/L
4,4′-DDD	0.0004	0.05	ug/L
Endosulfan II	0.002	0.05	ug/L
4,4′-DDT	0.002	0.05	ug/L
Endrin aldehyde	0.009	0.05	ug/L
Methoxychlor	0.003	0.05	ug/L
Endosulfan sulfate	0.002	0.05	ug/L
Endrin ketone	0.003	0.05	ug/L
Toxaphene	0.05	0.05	ug/L
alpha-BHC [2C]	0.001	0.05	ug/L
gamma-BHC [2C]	0.002	0.05	ug/L
beta-BHC [2C]	0.002	0.05	ug/L
delta-BHC [2C]	0.001	0.05	ug/L
Heptachlor [2C]	0.001	0.05	ug/L
Aldrin [2C]	0.002	0.05	ug/L
Heptachlor epoxide [2C]	0.001	0.05	ug/L
Chlordane-gamma [2C]	0.001	0.05	ug/L
Chlordane-alpha [2C]	0.001	0.05	ug/L
4,4'-DDE [2C]	0.002	0.05	ug/L
Endosulfan I [2C]	0.002	0.05	ug/L
Dieldrin [2C]	0.0008	0.05	ug/L
Endrin [2C]	0.002	0.05	ug/L
4,4'-DDD [2C]	0.0004	0.05	ug/L
Endosulfan II [2C]	0.002	0.05	ug/L
4,4'-DDT [2C]	0.002	0.05	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-010

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.009	0.05	ug/L
Methoxychlor [2C]	0.003	0.05	ug/L
Endosulfan sulfate [2C]	0.002	0.05	ug/L
Endrin ketone [2C]	0.003	0.05	ug/L
Toxaphene [2C]	0.05	0.05	ug/L

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07002 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L07002-BLK1	9LBA004B-0	12/07/06 11:12	
Blank	6L07002-BLK1	9LBB004B-0	12/07/06 11:12	
LCS	6L07002-BS1	9LBA005A-0	12/07/06 11:12	
LCS	6L07002-BS1	9LBB005A-0	12/07/06 11:12	
MW-2	6L07002-MS1	9LBB006A-0	12/07/06 11:12	
MW-2	6L07002-MS1	9LBA006A-0	12/07/06 11:12	
MW-2	6L07002-MSD1	9LBB007A-0	12/07/06 11:12	
MW-2	6L07002-MSD1	9LBA007A-0	12/07/06 11:12	
JAX47-937MW2S-113006	B610359-01	9LBA009A-0	12/07/06 11:12	
JAX47-937MW2S-113006	B610359-01	9LBB009A-0	12/07/06 11:12	
JAX47-937MW6D-113006	B610359-02	9LBA010A-0	12/07/06 11:12	
JAX47-937MW6D-113006	B610359-02	9LBB010A-0	12/07/06 11:12	
JAX47-937MW10S-113006	B610359-03	9LBB011A-0	12/07/06 11:12	
JAX47-937MW10S-113006	B610359-03	9LBA011A-0	12/07/06 11:12	
JAX47-MW18D-113006	B610359-04	9LBA012-0	12/07/06 11:12	
JAX47-MW18D-113006	B610359-04	9LBB012-0	12/07/06 11:12	
JAX47-MW18S-113006	B610359-05	9LBB013-0	12/07/06 11:12	
JAX47-MW18S-113006	B610359-05	9LBA013-0	12/07/06 11:12	
JAX47-MW20S-113006	B610359-06	9LBA015-0	12/07/06 11:12	
JAX47-MW20S-113006	B610359-06	9LBB015-0	12/07/06 11:12	
JAX47-MW27S-113006	B610359-07	9LBB016-0	12/07/06 11:12	
JAX47-MW27S-113006	B610359-07	9LBA016-0	12/07/06 11:12	
JAX47-R01-113006	B610359-08	9LBB017-0	12/07/06 11:12	
JAX47-R01-113006	B610359-08	9LBA017-0	12/07/06 11:12	
USGS-SSMW45-113006	B610359-09	9LBA018-0	12/07/06 11:12	
USGS-SSMW45-113006	B610359-09	9LBB018-0	12/07/06 11:12	
JAX47-DU01-120106	B610359-10	9LBB019-0	12/07/06 11:12	
JAX47-DU01-120106	B610359-10	9LBA019-0	12/07/06 11:12	
JAX47-DU01-120106	B610359-10RE1	9A5B012-0	12/07/06 11:12	Added 1/8/07 by JBH
JAX47-DU01-120106	B610359-10RE1	9A5A012-0	12/07/06 11:12	Added 1/8/07 by JBH
JAX47-MW13D-120106	B610359-11	9LBA020-0	12/07/06 11:12	
JAX47-MW13D-120106	B610359-11	9LBB020-0	12/07/06 11:12	
JAX47-MW13S-120106	B610359-12	9LBA021-0	12/07/06 11:12	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L07002 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-MW13S-120106	B610359-12	9LBB021-0	12/07/06 11:12	
JAX47-MW13S-120106	B610359-12RE1	9LGB045-0	12/07/06 11:12	Added 12/12/06 by JBH
JAX47-MW13S-120106	B610359-12RE1	9LGA045-0	12/07/06 11:12	Added 12/12/06 by JBH

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L07002-BLK1	File ID:	9LBA004B-0
Prepared:	12/07/06 11:12	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/08/06 11:39	Instrument:	JSVGCECD2		
Batch:	6L07002	Sequence:	BA00088	Calibration:	0612019

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4´-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4´-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4´-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.0	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L07002-BLK1	File ID:	9LBB004B-0
Prepared:	12/07/06 11:12	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/08/06 11:39	Instrument:	JSVGCECD2		
Batch:	6L07002	Sequence:	BA00088	Calibration:	0612019

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.750	75	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.721	72	25 - 140	
DBC	1.00	0.759	76	30 - 135	
DBC [2C]	1.00	0.734	73	30 - 135	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

MW-2

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07002
Laboratory ID: 6L07002-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: MW-2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	ND	0.728	73	60 - 130
gamma-BHC	1.00	ND	0.742	74	25 - 135
beta-BHC	1.00	ND	0.791	79	65 - 125
delta-BHC	1.00	ND	0.847	85	45 - 135
Heptachlor	1.00	ND	0.724	72	40 - 130
Aldrin	1.00	ND	0.689	69	25 - 140
Heptachlor epoxide	1.00	ND	0.719	72	60 - 130
Chlordane-gamma	1.00	ND	0.709	71	60 - 125
Chlordane-alpha	1.00	ND	0.705	70	65 - 125
4,4'-DDE	1.00	ND	0.730	73	35 - 140
Endosulfan I	1.00	ND	0.704	70	50 - 110
Dieldrin	1.00	ND	0.740	74	60 - 130
Endrin	1.00	ND	0.716	72	55 - 135
4,4'-DDD	1.00	ND	0.751	75	25 - 150
Endosulfan II	1.00	ND	0.741	74	30 - 130
4,4'-DDT	1.00	ND	0.851	85	45 - 140
Endrin aldehyde	1.00	ND	0.792	79	55 - 135
Methoxychlor	1.00	ND	0.820	82	55 - 150
Endosulfan sulfate	1.00	ND	0.822	82	55 - 135
Endrin ketone	1.00	ND	0.745	74 *	75 - 125
alpha-BHC [2C]	1.00	ND	0.701	70	60 - 130
gamma-BHC [2C]	1.00	ND	0.714	71	25 - 135
beta-BHC [2C]	1.00	ND	0.758	76	65 - 125
delta-BHC [2C]	1.00	ND	0.811	81	45 - 135
Heptachlor [2C]	1.00	ND	0.709	71	40 - 130
Aldrin [2C]	1.00	ND	0.660	66	25 - 140
Heptachlor epoxide [2C]	1.00	ND	0.684	68	60 - 130
Chlordane-gamma [2C]	1.00	ND	0.677	68	60 - 125
Chlordane-alpha [2C]	1.00	ND	0.669	67	65 - 125
4,4'-DDE [2C]	1.00	ND	0.691	69	35 - 140
Endosulfan I [2C]	1.00	ND	0.681	68	50 - 110
Dieldrin [2C]	1.00	ND	0.692	69	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

MW-2

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07002
Laboratory ID: 6L07002-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: MW-2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	ND	0.683	68	55 - 135
4,4'-DDD [2C]	1.00	ND	0.715	72	25 - 150
Endosulfan II [2C]	1.00	ND	0.697	70	30 - 130
4,4'-DDT [2C]	1.00	ND	0.830	83	45 - 140
Endrin aldehyde [2C]	1.00	ND	0.762	76	55 - 135
Methoxychlor [2C]	1.00	ND	0.833	83	55 - 150
Endosulfan sulfate [2C]	1.00	ND	0.806	81	55 - 135
Endrin ketone [2C]	1.00	ND	0.728	73 *	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	0.755	76	4	30	60 - 130
gamma-BHC	1.00	0.768	77	3	30	25 - 135
beta-BHC	1.00	0.810	81	2	30	65 - 125
delta-BHC	1.00	0.879	88	4	30	45 - 135
Heptachlor	1.00	0.761	76	5	30	40 - 130
Aldrin	1.00	0.728	73	6	30	25 - 140
Heptachlor epoxide	1.00	0.747	75	4	30	60 - 130
Chlordane-gamma	1.00	0.741	74	4	30	60 - 125
Chlordane-alpha	1.00	0.737	74	4	30	65 - 125
4,4'-DDE	1.00	0.766	77	5	30	35 - 140
Endosulfan I	1.00	0.731	73	4	30	50 - 110
Dieldrin	1.00	0.770	77	4	30	60 - 130
Endrin	1.00	0.747	75	4	30	55 - 135
4,4'-DDD	1.00	0.787	79	5	30	25 - 150
Endosulfan II	1.00	0.769	77	4	30	30 - 130
4,4'-DDT	1.00	0.891	89	5	30	45 - 140
Endrin aldehyde	1.00	0.840	84	6	30	55 - 135
Methoxychlor	1.00	0.849	85	3	30	55 - 150
Endosulfan sulfate	1.00	0.846	85	3	30	55 - 135
Endrin ketone	1.00	0.765	76	3	30	75 - 125
alpha-BHC [2C]	1.00	0.728	73	4	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

MW-2

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07002
Laboratory ID: 6L07002-MSD1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: MW-2

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.744	74	4	30	25 - 135
beta-BHC [2C]	1.00	0.787	79	4	30	65 - 125
delta-BHC [2C]	1.00	0.838	84	3	30	45 - 135
Heptachlor [2C]	1.00	0.746	75	5	30	40 - 130
Aldrin [2C]	1.00	0.695	70	5	30	25 - 140
Heptachlor epoxide [2C]	1.00	0.706	71	3	30	60 - 130
Chlordane-gamma [2C]	1.00	0.706	71	4	30	60 - 125
Chlordane-alpha [2C]	1.00	0.697	70	4	30	65 - 125
4,4'-DDE [2C]	1.00	0.723	72	5	30	35 - 140
Endosulfan I [2C]	1.00	0.706	71	4	30	50 - 110
Dieldrin [2C]	1.00	0.717	72	4	30	60 - 130
Endrin [2C]	1.00	0.708	71	4	30	55 - 135
4,4'-DDD [2C]	1.00	0.744	74	4	30	25 - 150
Endosulfan II [2C]	1.00	0.721	72	3	30	30 - 130
4,4'-DDT [2C]	1.00	0.873	87	5	30	45 - 140
Endrin aldehyde [2C]	1.00	0.791	79	4	30	55 - 135
Methoxychlor [2C]	1.00	0.862	86	3	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.836	84	4	30	55 - 135
Endrin ketone [2C]	1.00	0.755	76	4	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L07002
Laboratory ID: 6L07002-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.726	73	60 - 130
gamma-BHC	1.00	0.740	74	25 - 135
beta-BHC	1.00	0.779	78	65 - 125
delta-BHC	1.00	0.839	84	45 - 135
Heptachlor	1.00	0.723	72	40 - 130
Aldrin	1.00	0.691	69	25 - 140
Heptachlor epoxide	1.00	0.718	72	60 - 130
Chlordane-gamma	1.00	0.707	71	60 - 125
Chlordane-alpha	1.00	0.705	70	65 - 125
4,4'-DDE	1.00	0.732	73	35 - 140
Endosulfan I	1.00	0.700	70	50 - 110
Dieldrin	1.00	0.736	74	60 - 130
Endrin	1.00	0.708	71	55 - 135
4,4'-DDD	1.00	0.748	75	25 - 150
Endosulfan II	1.00	0.740	74	30 - 130
4,4'-DDT	1.00	0.847	85	45 - 140
Endrin aldehyde	1.00	0.805	80	55 - 135
Methoxychlor	1.00	0.819	82	55 - 150
Endosulfan sulfate	1.00	0.825	82	55 - 135
Endrin ketone	1.00	0.751	75	75 - 125
alpha-BHC [2C]	1.00	0.698	70	60 - 130
gamma-BHC [2C]	1.00	0.711	71	25 - 135
beta-BHC [2C]	1.00	0.755	76	65 - 125
delta-BHC [2C]	1.00	0.808	81	45 - 135
Heptachlor [2C]	1.00	0.704	70	40 - 130
Aldrin [2C]	1.00	0.659	66	25 - 140
Heptachlor epoxide [2C]	1.00	0.681	68	60 - 130
Chlordane-gamma [2C]	1.00	0.674	67	60 - 125
Chlordane-alpha [2C]	1.00	0.665	66	65 - 125
4,4'-DDE [2C]	1.00	0.691	69	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L07002	Laboratory ID:	6L07002-BS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.677	68	50 - 110
Dieldrin [2C]	1.00	0.692	69	60 - 130
Endrin [2C]	1.00	0.671	67	55 - 135
4,4'-DDD [2C]	1.00	0.707	71	25 - 150
Endosulfan II [2C]	1.00	0.691	69	30 - 130
4,4'-DDT [2C]	1.00	0.836	84	45 - 140
Endrin aldehyde [2C]	1.00	0.755	76	55 - 135
Methoxychlor [2C]	1.00	0.823	82	55 - 150
Endosulfan sulfate [2C]	1.00	0.799	80	55 - 135
Endrin ketone [2C]	1.00	0.724	72 *	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00088	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00088-IBL3	9A5B001A-0	01/05/07 12:56
Instrument Blank	BA00088-IBL3	9A5A001A-0	01/05/07 12:56
Performance Mix	BA00088-PEM3	9A5A002A-0	01/05/07 14:05
Performance Mix	BA00088-PEM3	9A5B002A-0	01/05/07 14:05
Calibration Check	BA00088-CCV6	9A5B011-0	01/05/07 17:58
Calibration Check	BA00088-CCV6	9A5A011-0	01/05/07 17:58
Instrument Blank	BA00088-IBL1	9LBA001B-0	12/08/06 10:21
Instrument Blank	BA00088-IBL1	9LBB001B-0	12/08/06 10:21
Performance Mix	BA00088-PEM1	9LBB002B-0	12/08/06 10:47
Performance Mix	BA00088-PEM1	9LBA002B-0	12/08/06 10:47
Calibration Check	BA00088-CCV1	9LBB003B-0	12/08/06 11:13
Calibration Check	BA00088-CCV1	9LBA003B-0	12/08/06 11:13
Blank	6L07002-BLK1	9LBA004B-0	12/08/06 11:39
Blank	6L07002-BLK1	9LBB004B-0	12/08/06 11:39
LCS	6L07002-BS1	9LBB005A-0	12/08/06 12:05
LCS	6L07002-BS1	9LBA005A-0	12/08/06 12:05
MW-2	6L07002-MS1	9LBA006A-0	12/08/06 12:31
MW-2	6L07002-MS1	9LBB006A-0	12/08/06 12:31
MW-2	6L07002-MSD1	9LBA007A-0	12/08/06 12:57
MW-2	6L07002-MSD1	9LBB007A-0	12/08/06 12:57
JAX47-937MW2S-113006	B610359-01	9LBA009A-0	12/08/06 13:49
JAX47-937MW2S-113006	B610359-01	9LBB009A-0	12/08/06 13:49
JAX47-937MW6D-113006	B610359-02	9LBB010A-0	12/08/06 14:15
JAX47-937MW6D-113006	B610359-02	9LBA010A-0	12/08/06 14:15
JAX47-937MW10S-113006	B610359-03	9LBA011A-0	12/08/06 14:41
JAX47-937MW10S-113006	B610359-03	9LBB011A-0	12/08/06 14:41
JAX47-MW18D-113006	B610359-04	9LBA012-0	12/08/06 15:07
JAX47-MW18D-113006	B610359-04	9LBB012-0	12/08/06 15:07
JAX47-MW18S-113006	B610359-05	9LBA013-0	12/08/06 15:33
JAX47-MW18S-113006	B610359-05	9LBB013-0	12/08/06 15:33
Calibration Check	BA00088-CCV2	9LBA014-0	12/08/06 15:59
Calibration Check	BA00088-CCV2	9LBB014-0	12/08/06 15:59

OK

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00088	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612019

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-MW20S-113006	B610359-06	9LBA015-0	12/08/06 16:25
JAX47-MW20S-113006	B610359-06	9LBB015-0	12/08/06 16:25
JAX47-MW27S-113006	B610359-07	9LBB016-0	12/08/06 16:51
JAX47-MW27S-113006	B610359-07	9LBA016-0	12/08/06 16:51
JAX47-R01-113006	B610359-08	9LBB017-0	12/08/06 17:17
JAX47-R01-113006	B610359-08	9LBA017-0	12/08/06 17:17
USGS-SSMW45-113006	B610359-09	9LBA018-0	12/08/06 17:43
USGS-SSMW45-113006	B610359-09	9LBB018-0	12/08/06 17:43
JAX47-DU01-120106	B610359-10	9LBB019-0	12/08/06 18:09
JAX47-DU01-120106	B610359-10	9LBA019-0	12/08/06 18:09
JAX47-MW13D-120106	B610359-11	9LBB020-0	12/08/06 18:35
JAX47-MW13D-120106	B610359-11	9LBA020-0	12/08/06 18:35
JAX47-MW13S-120106	B610359-12	9LBA021-0	12/08/06 19:01
JAX47-MW13S-120106	B610359-12	9LBB021-0	12/08/06 19:01
Calibration Check	BA00088-CCV3	9LBA022-0	12/08/06 19:27
Calibration Check	BA00088-CCV3	9LBB022-0	12/08/06 19:27
Instrument Blank	BA00088-IBL2	9LGA001-0	12/12/06 16:33
Instrument Blank	BA00088-IBL2	9LGB001-0	12/12/06 16:33
Performance Mix	BA00088-PEM2	9LGA002-0	12/12/06 16:59
Performance Mix	BA00088-PEM2	9LGB002-0	12/12/06 16:59
Calibration Check	BA00088-CCV4	9LGA041-0	12/13/06 07:03
Calibration Check	BA00088-CCV4	9LGB041-0	12/13/06 07:03
Calibration Check	BA00088-CCV5	9LGA046-0	12/13/06 09:13
Calibration Check	BA00088-CCV5	9LGB046-0	12/13/06 09:13

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9A5A011-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	01/05/07
Lab Sample ID:	BA00088-CCV6	Injection Time:	17:58

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.102	7.398562E+07	7.40597E+07		0.1	20
gamma-BHC	A	0.100	0.101	6.491869E+07	6.52847E+07		0.6	20
beta-BHC	A	0.100	0.104	2.324562E+07	2.40882E+07		3.6	20
delta-BHC	A	0.100	0.104	4.983083E+07	5.92121E+07		18.8	20
Heptachlor	A	0.100	0.0962	6.182335E+07	6.17232E+07		-0.2	20
Aldrin	A	0.100	0.0962	6.313387E+07	5.9164E+07		-6.3	20
Heptachlor epoxide	A	0.100	0.0944	5.464768E+07	5.10242E+07		-6.6	20
Chlordane-gamma	A	0.100	0.0944	5.693179E+07	5.21838E+07		-8.3	20
Chlordane-alpha	A	0.100	0.0923	5.472262E+07	4.89014E+07		-10.6	20
4,4′-DDE	A	0.100	0.0948	5.1587E+07	4.97073E+07		-3.6	20
Endosulfan I	A	0.100	0.0932	5.229753E+07	4.635E+07		-11.4	20
Dieldrin	A	0.100	0.0926	5.202288E+07	5.03408E+07		-3.2	20
Endrin	A	0.100	0.0995	4.866294E+07	4.60628E+07		-5.3	20
4,4′-DDD	A	0.100	0.101	3.851972E+07	4.03861E+07		4.8	20
Endosulfan II	A	0.100	0.0940	4.404929E+07	4.17428E+07		-5.2	20
4,4′-DDT	A	0.100	0.0890	3.568835E+07	3.70636E+07		3.9	20
Endrin aldehyde	A	0.100	0.0897	3.019672E+07	2.81448E+07		-6.8	20
Methoxychlor	A	0.100	0.0877	1.779768E+07	1.85656E+07		4.3	20
Endosulfan sulfate	A	0.100	0.102	3.317137E+07	3.72772E+07		12.4	20
Endrin ketone	A	0.100	0.0944	4.394762E+07	4.3136E+07		-1.8	20
alpha-BHC [2C]	A	0.100	0.101	7.828165E+07	7.63366E+07		-2.5	20
gamma-BHC [2C]	A	0.100	0.100	6.871985E+07	6.72699E+07		-2.1	20
beta-BHC [2C]	A	0.100	0.105	2.514164E+07	2.58796E+07		2.9	20
delta-BHC [2C]	A	0.100	0.103	5.308931E+07	6.03354E+07		13.6	20
Heptachlor [2C]	A	0.100	0.0945	6.610146E+07	6.30273E+07		-4.7	20
Aldrin [2C]	A	0.100	0.0939	6.765244E+07	5.96832E+07		-11.8	20
Heptachlor epoxide [2C]	A	0.100	0.0943	5.916389E+07	5.30704E+07		-10.3	20
Chlordane-gamma [2C]	A	0.100	0.0945	6.192916E+07	5.4098E+07		-12.6	20
Chlordane-alpha [2C]	A	0.100	0.0920	5.890229E+07	5.03579E+07		-14.5	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9A5B011-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	01/05/07
Lab Sample ID:	BA00088-CCV6	Injection Time:	17:58

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0951	5.631129E+07	5.0814E+07		-9.8	20
Endosulfan I [2C]	A	0.100	0.0935	5.389465E+07	4.75899E+07		-11.7	20
Dieldrin [2C]	A	0.100	0.0939	5.915392E+07	5.26617E+07		-11.0	20
Endrin [2C]	A	0.100	0.0990	5.057263E+07	4.55896E+07		-9.9	20
4,4'-DDD [2C]	A	0.100	0.0986	4.247934E+07	4.10087E+07		-3.5	20
Endosulfan II [2C]	A	0.100	0.0930	4.869335E+07	4.26962E+07		-12.3	20
4,4'-DDT [2C]	A	0.100	0.0868	3.693651E+07	3.63336E+07		-1.6	20
Endrin aldehyde [2C]	A	0.100	0.0895	3.253183E+07	2.89262E+07		-11.1	20
Methoxychlor [2C]	A	0.100	0.0879	1.7353E+07	1.77477E+07		2.3	20
Endosulfan sulfate [2C]	A	0.100	0.0970	3.596362E+07	3.72019E+07		3.4	20
Endrin ketone [2C]	A	0.100	0.0931	4.611414E+07	4.27848E+07		-7.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LGA046-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00142	Injection Date:	12/13/06
Lab Sample ID:	BA00142-CCV4	Injection Time:	09:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0957	7.398562E+07	6.96693E+07		-5.8	20
gamma-BHC	A	0.100	0.0953	6.491869E+07	6.15924E+07		-5.1	20
beta-BHC	A	0.100	0.0974	2.324562E+07	2.26211E+07		-2.7	20
delta-BHC	A	0.100	0.0988	4.983083E+07	5.60234E+07		12.4	20
Heptachlor	A	0.100	0.0899	6.182335E+07	5.76833E+07		-6.7	20
Aldrin	A	0.100	0.0925	6.313387E+07	5.68751E+07		-9.9	20
Heptachlor epoxide	A	0.100	0.0898	5.464768E+07	4.85412E+07		-11.2	20
Chlordane-gamma	A	0.100	0.0918	5.693179E+07	5.07347E+07		-10.9	20
Chlordane-alpha	A	0.100	0.0908	5.472262E+07	4.81158E+07		-12.1	20
4,4′-DDE	A	0.100	0.0898	5.1587E+07	4.70836E+07		-8.7	20
Endosulfan I	A	0.100	0.0909	5.229753E+07	4.51892E+07		-13.6	20
Dieldrin	A	0.100	0.0913	5.202288E+07	4.96416E+07		-4.6	20
Endrin	A	0.100	0.0932	4.866294E+07	4.31346E+07		-11.4	20
4,4′-DDD	A	0.100	0.0906	3.851972E+07	3.62715E+07		-5.8	20
Endosulfan II	A	0.100	0.0914	4.404929E+07	4.06291E+07		-7.8	20
4,4′-DDT	A	0.100	0.0902	3.568835E+07	3.75744E+07		5.3	20
Endrin aldehyde	A	0.100	0.0971	3.019672E+07	3.04511E+07		0.8	20
Methoxychlor	A	0.100	0.0858	1.779768E+07	1.81715E+07		2.1	20
Endosulfan sulfate	A	0.100	0.0973	3.317137E+07	3.57304E+07		7.7	20
Endrin ketone	A	0.100	0.0926	4.394762E+07	4.22975E+07		-3.8	20
alpha-BHC [2C]	A	0.100	0.0966	7.828165E+07	7.29745E+07		-6.8	20
gamma-BHC [2C]	A	0.100	0.0970	6.871985E+07	6.51657E+07		-5.2	20
beta-BHC [2C]	A	0.100	0.0999	2.514164E+07	2.47024E+07		-1.7	20
delta-BHC [2C]	A	0.100	0.100	5.308931E+07	5.84863E+07		10.2	20
Heptachlor [2C]	A	0.100	0.0923	6.610146E+07	6.15945E+07		-6.8	20
Aldrin [2C]	A	0.100	0.0940	6.765244E+07	5.97556E+07		-11.7	20
Heptachlor epoxide [2C]	A	0.100	0.0914	5.916389E+07	5.14222E+07		-13.1	20
Chlordane-gamma [2C]	A	0.100	0.0942	6.192916E+07	5.39031E+07		-13.0	20
Chlordane-alpha [2C]	A	0.100	0.0930	5.890229E+07	5.08706E+07		-13.6	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LGB046-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00142	Injection Date:	12/13/06
Lab Sample ID:	BA00142-CCV4	Injection Time:	09:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0936	5.631129E+07	5.00261E+07		-11.2	20
Endosulfan I [2C]	A	0.100	0.0922	5.389465E+07	4.69204E+07		-12.9	20
Dieldrin [2C]	A	0.100	0.0933	5.915392E+07	5.23467E+07		-11.5	20
Endrin [2C]	A	0.100	0.0962	5.057263E+07	4.43129E+07		-12.4	20
4,4'-DDD [2C]	A	0.100	0.0944	4.247934E+07	3.92519E+07		-7.6	20
Endosulfan II [2C]	A	0.100	0.0939	4.869335E+07	4.30764E+07		-11.5	20
4,4'-DDT [2C]	A	0.100	0.0959	3.693651E+07	4.0124E+07		8.6	20
Endrin aldehyde [2C]	A	0.100	0.0997	3.253183E+07	3.22249E+07		-0.9	20
Methoxychlor [2C]	A	0.100	0.0907	1.7353E+07	1.83117E+07		5.5	20
Endosulfan sulfate [2C]	A	0.100	0.0996	3.596362E+07	3.82258E+07		6.3	20
Endrin ketone [2C]	A	0.100	0.0951	4.611414E+07	4.37311E+07		-5.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION DATA

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
Compound	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.505234E+07	0.01	7.002064E+07	0.025	7.020876E+07	0.05	7.726578E+07	0.1	8.91644E+07	0.15	7.479246E+07
gamma-BHC	0.005	5.11061E+07	0.01	6.221556E+07	0.025	6.155912E+07	0.05	6.711686E+07	0.1	7.703248E+07	0.15	6.481706E+07
beta-BHC	0.005	2.250888E+07	0.01	2.276296E+07	0.025	2.237892E+07	0.05	2.364666E+07	0.1	2.556304E+07	0.15	2.253503E+07
delta-BHC	0.005	3.455666E+07	0.01	4.164534E+07	0.025	4.480356E+07	0.05	5.13689E+07	0.1	6.301373E+07	0.15	5.425041E+07
Heptachlor	0.005	5.394744E+07	0.01	6.326453E+07	0.025	5.940172E+07	0.05	6.28584E+07	0.1	7.109027E+07	0.15	5.865991E+07
Aldrin	0.005	5.215794E+07	0.01	6.342919E+07	0.025	6.035536E+07	0.05	6.461566E+07	0.1	7.387655E+07	0.15	6.103463E+07
Isodrin	0.005	4.264138E+07	0.01	4.946856E+07	0.025	4.55162E+07	0.05	4.769252E+07	0.1	5.399816E+07	0.15	4.458081E+07
Heptachlor epoxide	0.005	4.98651E+07	0.01	5.684878E+07	0.025	5.26652E+07	0.05	5.500404E+07	0.1	6.181025E+07	0.15	5.103291E+07
Chlordane-gamma	0.005	4.905186E+07	0.01	5.663538E+07	0.025	5.343784E+07	0.05	5.719942E+07	0.1	6.634003E+07	0.15	5.520083E+07
Chlordane-alpha	0.005	4.86786E+07	0.01	5.543567E+07	0.025	5.153864E+07	0.05	5.465638E+07	0.1	6.292115E+07	0.15	5.235237E+07
4,4'-DDE	0.005	4.511698E+07	0.01	4.886426E+07	0.025	4.78502E+07	0.05	5.158702E+07	0.1	6.091367E+07	0.15	5.056267E+07
Endosulfan I	0.005	4.623756E+07	0.01	5.513334E+07	0.025	5.014068E+07	0.05	5.263724E+07	0.1	5.95629E+07	0.15	4.920647E+07
Dieldrin	0.005	4.561066E+07	0.01	5.18615E+07	0.025	4.894512E+07	0.05	5.209832E+07	0.1	6.043279E+07	0.15	5.014079E+07
Endrin	0.005	4.212818E+07	0.01	4.865663E+07	0.025	4.599992E+07	0.05	4.902394E+07	0.1	5.682325E+07	0.15	4.709038E+07
4,4'-DDD	0.005	3.164258E+07	0.01	3.534146E+07	0.025	3.530548E+07	0.05	3.889828E+07	0.1	4.633001E+07	0.15	3.897371E+07
Endosulfan II	0.005	4.027916E+07	0.01	4.475768E+07	0.025	4.178996E+07	0.05	4.401528E+07	0.1	5.006433E+07	0.15	4.193467E+07
4,4'-DDT	0.005	2.594216E+07	0.01	3.152064E+07	0.025	3.185242E+07	0.05	3.593352E+07	0.1	4.451414E+07	0.15	3.750389E+07
Endrin aldehyde	0.005	2.86073E+07	0.01	2.996952E+07	0.025	3.063946E+07	0.05	3.10346E+07	0.1	3.270087E+07	0.15	2.88723E+07
Methoxychlor	0.005	1.679069E+07	0.01	1.736966E+07	0.025	1.640701E+07	0.05	1.73608E+07	0.1	2.038491E+07	0.15	1.707881E+07
Mirex	0.0025	3.681133E+07	0.005	4.02482E+07	0.0125	3.425905E+07	0.025	3.382679E+07	0.05	3.725758E+07	0.075	3.07504E+07
Endosulfan sulfate	0.005	3.095656E+07	0.01	3.275636E+07	0.025	3.151565E+07	0.05	3.339074E+07	0.1	3.719751E+07	0.15	3.223892E+07
Endrin ketone	0.005	3.919972E+07	0.01	4.363298E+07	0.025	4.155036E+07	0.05	4.414446E+07	0.1	5.031978E+07	0.15	4.25955E+07
alpha-BHC [2C]	0.005	5.885358E+07	0.01	7.68531E+07	0.025	7.707956E+07	0.05	8.309544E+07	0.1	9.325327E+07	0.15	7.714126E+07
gamma-BHC [2C]	0.005	5.4789E+07	0.01	6.745944E+07	0.025	6.689304E+07	0.05	7.195134E+07	0.1	8.080955E+07	0.15	6.72634E+07
beta-BHC [2C]	0.005	2.39395E+07	0.01	2.458065E+07	0.025	2.443706E+07	0.05	2.59759E+07	0.1	2.769742E+07	0.15	2.43298E+07
delta-BHC [2C]	0.005	3.71598E+07	0.01	4.591163E+07	0.025	4.988392E+07	0.05	5.632462E+07	0.1	6.609067E+07	0.15	5.614539E+07
Heptachlor [2C]	0.005	5.709608E+07	0.01	6.795972E+07	0.025	6.456152E+07	0.05	6.863156E+07	0.1	7.596898E+07	0.15	6.219029E+07
Aldrin [2C]	0.005	5.718772E+07	0.01	6.933834E+07	0.025	6.641032E+07	0.05	7.028312E+07	0.1	7.817022E+07	0.15	6.391287E+07
Isodrin [2C]	0.005	4.689294E+07	0.01	5.449988E+07	0.025	5.060732E+07	0.05	5.279708E+07	0.1	5.832917E+07	0.15	4.769322E+07
Heptachlor epoxide [2C]	0.005	5.435238E+07	0.01	6.265399E+07	0.025	5.872728E+07	0.05	6.081498E+07	0.1	6.623183E+07	0.15	5.404695E+07
Chlordane-gamma [2C]	0.005	5.418146E+07	0.01	6.2997E+07	0.025	5.998712E+07	0.05	6.344758E+07	0.1	7.115562E+07	0.15	5.865527E+07

INITIAL CALIBRATION DATA

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	5.366218E+07	0.01	6.157693E+07	0.025	5.739892E+07	0.05	5.943788E+07	0.1	6.651774E+07	0.15	5.479261E+07
4,4'-DDE [2C]	0.005	4.62938E+07	0.01	5.375564E+07	0.025	5.341524E+07	0.05	5.811374E+07	0.1	6.711916E+07	0.15	5.533663E+07
Endosulfan I [2C]	0.005	4.927974E+07	0.01	5.698873E+07	0.025	5.330488E+07	0.05	5.465146E+07	0.1	6.048327E+07	0.15	4.963221E+07
Dieldrin [2C]	0.005	5.087686E+07	0.01	6.050144E+07	0.025	5.78944E+07	0.05	6.12726E+07	0.1	6.818807E+07	0.15	5.581013E+07
Endrin [2C]	0.005	4.427892E+07	0.01	5.182729E+07	0.025	4.929688E+07	0.05	5.209222E+07	0.1	5.801112E+07	0.15	4.752669E+07
4,4'-DDD [2C]	0.005	3.537354E+07	0.01	3.99924E+07	0.025	4.00174E+07	0.05	4.356242E+07	0.1	5.055757E+07	0.15	4.208391E+07
Endosulfan II [2C]	0.005	4.39486E+07	0.01	5.034173E+07	0.025	4.731136E+07	0.05	4.97636E+07	0.1	5.511519E+07	0.15	4.571471E+07
4,4'-DDT [2C]	0.005	2.566778E+07	0.01	3.118747E+07	0.025	3.317004E+07	0.05	3.814354E+07	0.1	4.700909E+07	0.15	3.941806E+07
Endrin aldehyde [2C]	0.005	3.129332E+07	0.01	3.177497E+07	0.025	3.223836E+07	0.05	3.40341E+07	0.1	3.562158E+07	0.15	3.119235E+07
Methoxychlor [2C]	0.005	1.491743E+07	0.01	1.669419E+07	0.025	1.604071E+07	0.05	1.80908E+07	0.1	2.001077E+07	0.15	1.668365E+07
Mirex [2C]	0.0025	4.202068E+07	0.005	4.393888E+07	0.0125	3.66293E+07	0.025	3.588842E+07	0.05	3.937208E+07	0.075	3.248043E+07
Endosulfan sulfate [2C]	0.005	3.393424E+07	0.01	3.554405E+07	0.025	3.473183E+07	0.05	3.685348E+07	0.1	4.025303E+07	0.15	3.4482E+07
Endrin ketone [2C]	0.005	4.139006E+07	0.01	4.651668E+07	0.025	4.461228E+07	0.05	4.718752E+07	0.1	5.248952E+07	0.15	4.392205E+07
2,4,5,6-TCMX	0.005	4.038382E+07	0.01	4.63885E+07	0.025	4.307652E+07	0.05	4.571434E+07	0.1	5.296239E+07	0.15	4.418503E+07
2,4,5,6-TCMX [2C]	0.005	4.58195E+07	0.01	5.282861E+07	0.025	4.91594E+07	0.05	5.18548E+07	0.1	5.868567E+07	0.15	4.823373E+07
DBC	0.005	3.395008E+07	0.01	3.743063E+07	0.025	3.449794E+07	0.05	3.638162E+07	0.1	4.263586E+07	0.15	3.549963E+07
DBC [2C]	0.005	3.67525E+07	0.01	4.082281E+07	0.025	3.7612E+07	0.05	3.93231E+07	0.1	4.474473E+07	0.15	3.690314E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.139495E+07										
gamma-BHC	0.2	7.058365E+07										
beta-BHC	0.2	2.332382E+07										
delta-BHC	0.2	5.91772E+07										
Heptachlor	0.2	6.35412E+07										
Aldrin	0.2	6.646775E+07										
Isodrin	0.2	4.860929E+07										
Heptachlor epoxide	0.2	5.53075E+07										
Chlordane-gamma	0.2	6.06572E+07										
Chlordane-alpha	0.2	5.747555E+07										
4,4'-DDE	0.2	5.62142E+07										
Endosulfan I	0.2	5.316455E+07										
Dieldrin	0.2	5.507095E+07										
Endrin	0.2	5.09183E+07										
4,4'-DDD	0.2	4.314654E+07										
Endosulfan II	0.2	4.550397E+07										
4,4'-DDT	0.2	4.255168E+07										
Endrin aldehyde	0.2	2.955302E+07										
Methoxychlor	0.2	1.91919E+07										
Mirex	0.1	3.381863E+07										
Endosulfan sulfate	0.2	3.414386E+07										
Endrin ketone	0.2	4.619054E+07										
alpha-BHC [2C]	0.2	8.16953E+07										
gamma-BHC [2C]	0.2	7.187315E+07										
beta-BHC [2C]	0.2	2.503114E+07										
delta-BHC [2C]	0.2	6.010915E+07										
Heptachlor [2C]	0.2	6.63021E+07										
Aldrin [2C]	0.2	6.82645E+07										
Isodrin [2C]	0.2	5.08702E+07										
Heptachlor epoxide [2C]	0.2	5.73198E+07										
Chlordane-gamma [2C]	0.2	6.308005E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.892975E+07										
4,4'-DDE [2C]	0.2	6.01448E+07										
Endosulfan I [2C]	0.2	5.292225E+07										
Dieldrin [2C]	0.2	5.953395E+07										
Endrin [2C]	0.2	5.09753E+07										
4,4'-DDD [2C]	0.2	4.576816E+07										
Endosulfan II [2C]	0.2	4.865824E+07										
4,4'-DDT [2C]	0.2	4.395956E+07										
Endrin aldehyde [2C]	0.2	3.156814E+07										
Methoxychlor [2C]	0.2	1.903347E+07										
Mirex [2C]	0.1	3.540572E+07										
Endosulfan sulfate [2C]	0.2	3.59467E+07										
Endrin ketone [2C]	0.2	4.668086E+07										
2,4,5,6-TCMX	0.2	4.865994E+07										
2,4,5,6-TCMX [2C]	0.2	5.234295E+07										
DBC	0.2	3.935926E+07										
DBC [2C]	0.2	4.010268E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.398562E+07	14.44351	7.757286	2.111835E-02			20	
gamma-BHC	6.491869E+07	12.46762	8.36	1.617719E-02			20	
beta-BHC	2.324562E+07	4.8318	8.557429	1.876516E-02			20	
delta-BHC	4.983083E+07	20.2115	8.861	1.447878E-02			20	*
Heptachlor	6.182335E+07	8.606743	9.196571	1.586097E-02			20	
Aldrin	6.313387E+07	10.45479	9.697286	1.233442E-02			20	
Isodrin	4.750099E+07	7.850342	10.24014	5.946941E-03			20	
Heptachlor epoxide	5.464768E+07	7.341674	10.68829	9.017128E-03			20	
Chlordane-gamma	5.693179E+07	9.61668	10.88429	0.011925			20	
Chlordane-alpha	5.472262E+07	8.426971	11.08657	1.488911E-02			20	
4,4'-DDE	5.1587E+07	10.39948	11.22971	1.642813E-02			20	
Endosulfan I	5.229753E+07	8.28437	11.289	7.631258E-03			20	
Dieldrin	5.202288E+07	9.090226	11.65243	1.033635E-02			20	
Endrin	4.866294E+07	9.344774	11.99529	5.869738E-03			20	
4,4'-DDD	3.851972E+07	13.00134	12.12643	1.716756E-02			20	
Endosulfan II	4.404929E+07	7.332252	12.33386	6.106009E-03			20	
4,4'-DDT	3.568835E+07	18.28237	12.52529	0.0130767			20	
Endrin aldehyde	3.019672E+07	4.666749	12.95286	7.993616E-03			20	
Methoxychlor	1.779768E+07	8.10226	13.24029	2.474817E-03			20	
Mirex	3.528171E+07	8.716491	13.403	1.647032E-02			20	
Endosulfan sulfate	3.317137E+07	6.262459	13.58729	1.513565E-02			20	
Endrin ketone	4.394762E+07	8.092502	13.981	8.894222E-03			20	
alpha-BHC [2C]	7.828165E+07	13.20581	7.588857	3.194446E-02			20	
gamma-BHC [2C]	6.871985E+07	11.39113	8.25	0.0360012			20	
beta-BHC [2C]	2.514164E+07	5.174674	8.446286	2.322355E-02			20	
delta-BHC [2C]	5.308931E+07	18.09423	8.939286	2.310905E-02			20	
Heptachlor [2C]	6.610146E+07	8.864959	8.988714	2.701861E-02			20	
Aldrin [2C]	6.765244E+07	9.460862	9.507857	1.561978E-02			20	
Isodrin [2C]	5.166997E+07	7.661482	10.13629	2.364944E-02			20	
Heptachlor epoxide [2C]	5.916389E+07	7.48889	10.43157	1.847776E-02			20	
Chlordane-gamma [2C]	6.192916E+07	8.452779	10.72443	1.927131E-02			20	
Chlordane-alpha [2C]	5.890229E+07	7.336484	10.94843	1.721687E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.631129E+07	11.48531	11.24086	4.215165E-03			20	
Endosulfan I [2C]	5.389465E+07	7.35647	11.01643	1.657668E-02			20	
Dieldrin [2C]	5.915392E+07	8.980967	11.42657	1.075473E-02			20	
Endrin [2C]	5.057263E+07	8.462393	11.86814	9.576847E-03			20	
4,4'-DDD [2C]	4.247934E+07	11.37708	12.09171	1.445025E-02			20	
Endosulfan II [2C]	4.869335E+07	7.423508	12.18871	2.177538E-03			20	
4,4'-DDT [2C]	3.693651E+07	20.15769	12.535	1.634163E-02			20	*
Endrin aldehyde [2C]	3.253183E+07	5.131246	12.68186	3.492462E-03			20	
Methoxychlor [2C]	1.7353E+07	10.24621	13.54314	1.284366E-02			20	
Mirex [2C]	3.796222E+07	10.58292	13.75929	8.98593E-03			20	
Endosulfan sulfate [2C]	3.596362E+07	5.920116	13.07857	1.077999E-02			20	
Endrin ketone [2C]	4.611414E+07	7.494185	13.833	1.340358E-02			20	
2,4,5,6-TCMX	4.591008E+07	8.852618	6.578857	2.297852E-02			20	
2,4,5,6-TCMX [2C]	5.127495E+07	8.052827	6.311	4.991169E-02			20	
DBC	3.710786E+07	8.205566	13.85357	1.282393E-03			20	
DBC [2C]	3.946585E+07	7.129374	13.67986	1.367179E-02			20	

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LBA003B-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/08/06
Lab Sample ID:	BA00088-CCV1	Injection Time:	11:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0904	7.398562E+07	6.69026E+07		-9.6	20
gamma-BHC	A	0.100	0.0906	6.491869E+07	5.88308E+07		-9.4	20
beta-BHC	A	0.100	0.0937	2.324562E+07	2.17734E+07		-6.3	20
delta-BHC	A	0.100	0.106	4.983083E+07	5.28999E+07		6.2	20
Heptachlor	A	0.100	0.0888	6.182335E+07	5.49015E+07		-11.2	20
Aldrin	A	0.100	0.0871	6.313387E+07	5.49933E+07		-12.9	20
Heptachlor epoxide	A	0.100	0.0859	5.464768E+07	4.6945E+07		-14.1	20
Chlordane-gamma	A	0.100	0.0859	5.693179E+07	4.89195E+07		-14.1	20
Chlordane-alpha	A	0.100	0.0849	5.472262E+07	4.64775E+07		-15.1	20
4,4′-DDE	A	0.100	0.0864	5.1587E+07	4.45583E+07		-13.6	20
Endosulfan I	A	0.100	0.0852	5.229753E+07	4.45695E+07		-14.8	20
Dieldrin	A	0.100	0.0887	5.202288E+07	4.61267E+07		-11.3	20
Endrin	A	0.100	0.0814	4.866294E+07	3.96253E+07		-18.6	20
4,4′-DDD	A	0.100	0.0882	3.851972E+07	3.39619E+07		-11.8	20
Endosulfan II	A	0.100	0.0878	4.404929E+07	3.86754E+07		-12.2	20
4,4′-DDT	A	0.100	0.0988	3.568835E+07	3.52739E+07		-1.2	20
Endrin aldehyde	A	0.100	0.0958	3.019672E+07	2.89296E+07		-4.2	20
Methoxychlor	A	0.100	0.0926	1.779768E+07	1.64749E+07		-7.4	20
Endosulfan sulfate	A	0.100	0.0968	3.317137E+07	3.21045E+07		-3.2	20
Endrin ketone	A	0.100	0.0881	4.394762E+07	3.87169E+07		-11.9	20
alpha-BHC [2C]	A	0.100	0.0852	7.828165E+07	6.66755E+07		-14.8	20
gamma-BHC [2C]	A	0.100	0.0856	6.871985E+07	5.88358E+07		-14.4	20
beta-BHC [2C]	A	0.100	0.0890	2.514164E+07	2.23751E+07		-11.0	20
delta-BHC [2C]	A	0.100	0.0997	5.308931E+07	5.29081E+07		-0.3	20
Heptachlor [2C]	A	0.100	0.0859	6.610146E+07	5.67661E+07		-14.1	20
Aldrin [2C]	A	0.100	0.0818	6.765244E+07	5.53337E+07		-18.2	20
Heptachlor epoxide [2C]	A	0.100	0.0807	5.916389E+07	4.77372E+07		-19.3	20
Chlordane-gamma [2C]	A	0.100	0.0803	6.192916E+07	4.972E+07		-19.7	20
Chlordane-alpha [2C]	A	0.100	0.0790	5.890229E+07	4.65139E+07		-21.0	20 *

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LBB003B-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/08/06
Lab Sample ID:	BA00088-CCV1	Injection Time:	11:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0816	5.631129E+07	4.59623E+07		-18.4	20	
Endosulfan I [2C]	A	0.100	0.0800	5.389465E+07	4.31086E+07		-20.0	20	
Dieldrin [2C]	A	0.100	0.0818	5.915392E+07	4.84116E+07		-18.2	20	
Endrin [2C]	A	0.100	0.0769	5.057263E+07	3.88709E+07		-23.1	20	*
4,4'-DDD [2C]	A	0.100	0.0839	4.247934E+07	3.55285E+07		-16.4	20	
Endosulfan II [2C]	A	0.100	0.0825	4.869335E+07	4.01272E+07		-17.6	20	
4,4'-DDT [2C]	A	0.100	0.0977	3.693651E+07	3.60839E+07		-2.3	20	
Endrin aldehyde [2C]	A	0.100	0.0919	3.253183E+07	2.99104E+07		-8.1	20	
Methoxychlor [2C]	A	0.100	0.0966	1.7353E+07	1.67712E+07		-3.4	20	
Endosulfan sulfate [2C]	A	0.100	0.0927	3.596362E+07	3.33357E+07		-7.3	20	
Endrin ketone [2C]	A	0.100	0.0839	4.611414E+07	3.86823E+07		-16.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LBA014-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/08/06
Lab Sample ID:	BA00088-CCV2	Injection Time:	15:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0954	7.398562E+07	7.05559E+07		-4.6	20
gamma-BHC	A	0.100	0.0956	6.491869E+07	6.20704E+07		-4.4	20
beta-BHC	A	0.100	0.0985	2.324562E+07	2.28898E+07		-1.5	20
delta-BHC	A	0.100	0.113	4.983083E+07	5.61122E+07		12.6	20
Heptachlor	A	0.100	0.0940	6.182335E+07	5.80991E+07		-6.0	20
Aldrin	A	0.100	0.0922	6.313387E+07	5.81875E+07		-7.8	20
Heptachlor epoxide	A	0.100	0.0903	5.464768E+07	4.93679E+07		-9.7	20
Chlordane-gamma	A	0.100	0.0913	5.693179E+07	5.1995E+07		-8.7	20
Chlordane-alpha	A	0.100	0.0904	5.472262E+07	4.94655E+07		-9.6	20
4,4′-DDE	A	0.100	0.0892	5.1587E+07	4.60226E+07		-10.8	20
Endosulfan I	A	0.100	0.0920	5.229753E+07	4.81063E+07		-8.0	20
Dieldrin	A	0.100	0.0929	5.202288E+07	4.83039E+07		-7.1	20
Endrin	A	0.100	0.0900	4.866294E+07	4.3781E+07		-10.0	20
4,4′-DDD	A	0.100	0.0930	3.851972E+07	3.58104E+07		-7.0	20
Endosulfan II	A	0.100	0.0934	4.404929E+07	4.11351E+07		-6.6	20
4,4′-DDT	A	0.100	0.107	3.568835E+07	3.80582E+07		6.6	20
Endrin aldehyde	A	0.100	0.102	3.019672E+07	3.09465E+07		2.5	20
Methoxychlor	A	0.100	0.100	1.779768E+07	1.78055E+07		0.04	20
Endosulfan sulfate	A	0.100	0.106	3.317137E+07	3.49852E+07		5.5	20
Endrin ketone	A	0.100	0.0958	4.394762E+07	4.20896E+07		-4.2	20
alpha-BHC [2C]	A	0.100	0.0914	7.828165E+07	7.15348E+07		-8.6	20
gamma-BHC [2C]	A	0.100	0.0929	6.871985E+07	6.38541E+07		-7.1	20
beta-BHC [2C]	A	0.100	0.0953	2.514164E+07	2.39711E+07		-4.7	20
delta-BHC [2C]	A	0.100	0.107	5.308931E+07	5.69001E+07		7.2	20
Heptachlor [2C]	A	0.100	0.0919	6.610146E+07	6.07578E+07		-8.1	20
Aldrin [2C]	A	0.100	0.0876	6.765244E+07	5.92333E+07		-12.4	20
Heptachlor epoxide [2C]	A	0.100	0.0861	5.916389E+07	5.09669E+07		-13.9	20
Chlordane-gamma [2C]	A	0.100	0.0866	6.192916E+07	5.36166E+07		-13.4	20
Chlordane-alpha [2C]	A	0.100	0.0865	5.890229E+07	5.0929E+07		-13.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LBB014-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/08/06
Lab Sample ID:	BA00088-CCV2	Injection Time:	15:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0876	5.631129E+07	4.93132E+07		-12.4	20
Endosulfan I [2C]	A	0.100	0.0873	5.389465E+07	4.70546E+07		-12.7	20
Dieldrin [2C]	A	0.100	0.0878	5.915392E+07	5.19568E+07		-12.2	20
Endrin [2C]	A	0.100	0.0854	5.057263E+07	4.31994E+07		-14.6	20
4,4'-DDD [2C]	A	0.100	0.0903	4.247934E+07	3.82251E+07		-10.0	20
Endosulfan II [2C]	A	0.100	0.0893	4.869335E+07	4.34327E+07		-10.8	20
4,4'-DDT [2C]	A	0.100	0.108	3.693651E+07	3.98038E+07		7.8	20
Endrin aldehyde [2C]	A	0.100	0.0996	3.253183E+07	3.23957E+07		-0.4	20
Methoxychlor [2C]	A	0.100	0.105	1.7353E+07	1.82757E+07		5.3	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.596362E+07	3.66949E+07		2.0	20
Endrin ketone [2C]	A	0.100	0.0923	4.611414E+07	4.25735E+07		-7.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LBA022-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/08/06
Lab Sample ID:	BA00088-CCV3	Injection Time:	19:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0988	7.398562E+07	7.30622E+07		-1.2	20
gamma-BHC	A	0.100	0.0999	6.491869E+07	6.48413E+07		-0.1	20
beta-BHC	A	0.100	0.102	2.324562E+07	2.3834E+07		2.5	20
delta-BHC	A	0.100	0.118	4.983083E+07	5.87292E+07		17.9	20
Heptachlor	A	0.100	0.0982	6.182335E+07	6.07135E+07		-1.8	20
Aldrin	A	0.100	0.0957	6.313387E+07	6.04048E+07		-4.3	20
Heptachlor epoxide	A	0.100	0.0940	5.464768E+07	5.1343E+07		-6.0	20
Chlordane-gamma	A	0.100	0.0948	5.693179E+07	5.39942E+07		-5.2	20
Chlordane-alpha	A	0.100	0.0939	5.472262E+07	5.13588E+07		-6.1	20
4,4′-DDE	A	0.100	0.0941	5.1587E+07	4.85485E+07		-5.9	20
Endosulfan I	A	0.100	0.0945	5.229753E+07	4.94198E+07		-5.5	20
Dieldrin	A	0.100	0.0970	5.202288E+07	5.04491E+07		-3.0	20
Endrin	A	0.100	0.0936	4.866294E+07	4.55553E+07		-6.4	20
4,4′-DDD	A	0.100	0.0978	3.851972E+07	3.76533E+07		-2.2	20
Endosulfan II	A	0.100	0.0975	4.404929E+07	4.29619E+07		-2.5	20
4,4′-DDT	A	0.100	0.111	3.568835E+07	3.94651E+07		10.6	20
Endrin aldehyde	A	0.100	0.107	3.019672E+07	3.22556E+07		6.8	20
Methoxychlor	A	0.100	0.103	1.779768E+07	1.83278E+07		3.0	20
Endosulfan sulfate	A	0.100	0.113	3.317137E+07	3.73654E+07		12.6	20
Endrin ketone	A	0.100	0.102	4.394762E+07	4.46159E+07		1.5	20
alpha-BHC [2C]	A	0.100	0.0943	7.828165E+07	7.37909E+07		-5.7	20
gamma-BHC [2C]	A	0.100	0.0958	6.871985E+07	6.58641E+07		-4.2	20
beta-BHC [2C]	A	0.100	0.0989	2.514164E+07	2.48569E+07		-1.1	20
delta-BHC [2C]	A	0.100	0.111	5.308931E+07	5.8772E+07		10.7	20
Heptachlor [2C]	A	0.100	0.0961	6.610146E+07	6.34972E+07		-3.9	20
Aldrin [2C]	A	0.100	0.0903	6.765244E+07	6.10665E+07		-9.7	20
Heptachlor epoxide [2C]	A	0.100	0.0890	5.916389E+07	5.26349E+07		-11.0	20
Chlordane-gamma [2C]	A	0.100	0.0893	6.192916E+07	5.53257E+07		-10.7	20
Chlordane-alpha [2C]	A	0.100	0.0880	5.890229E+07	5.18546E+07		-12.0	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LBB022-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/08/06
Lab Sample ID:	BA00088-CCV3	Injection Time:	19:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0909	5.631129E+07	5.11846E+07		-9.1	20
Endosulfan I [2C]	A	0.100	0.0887	5.389465E+07	4.78223E+07		-11.3	20
Dieldrin [2C]	A	0.100	0.0909	5.915392E+07	5.37728E+07		-9.1	20
Endrin [2C]	A	0.100	0.0898	5.057263E+07	4.53924E+07		-10.2	20
4,4'-DDD [2C]	A	0.100	0.0938	4.247934E+07	3.96972E+07		-6.5	20
Endosulfan II [2C]	A	0.100	0.0920	4.869335E+07	4.47757E+07		-8.0	20
4,4'-DDT [2C]	A	0.100	0.108	3.693651E+07	4.0035E+07		8.4	20
Endrin aldehyde [2C]	A	0.100	0.103	3.253183E+07	3.34339E+07		2.8	20
Methoxychlor [2C]	A	0.100	0.105	1.7353E+07	1.82038E+07		4.9	20
Endosulfan sulfate [2C]	A	0.100	0.108	3.596362E+07	3.87999E+07		7.9	20
Endrin ketone [2C]	A	0.100	0.0960	4.611414E+07	4.42466E+07		-4.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LGA041-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/13/06
Lab Sample ID:	BA00088-CCV4	Injection Time:	07:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0946	7.398562E+07	6.88708E+07		-6.9	20
gamma-BHC	A	0.100	0.0941	6.491869E+07	6.08438E+07		-6.3	20
beta-BHC	A	0.100	0.0965	2.324562E+07	2.24135E+07		-3.6	20
delta-BHC	A	0.100	0.0975	4.983083E+07	5.52978E+07		11.0	20
Heptachlor	A	0.100	0.0886	6.182335E+07	5.68593E+07		-8.0	20
Aldrin	A	0.100	0.0915	6.313387E+07	5.6272E+07		-10.9	20
Heptachlor epoxide	A	0.100	0.0886	5.464768E+07	4.79133E+07		-12.3	20
Chlordane-gamma	A	0.100	0.0907	5.693179E+07	5.01331E+07		-11.9	20
Chlordane-alpha	A	0.100	0.0899	5.472262E+07	4.76135E+07		-13.0	20
4,4′-DDE	A	0.100	0.0887	5.1587E+07	4.6531E+07		-9.8	20
Endosulfan I	A	0.100	0.0900	5.229753E+07	4.47424E+07		-14.4	20
Dieldrin	A	0.100	0.0902	5.202288E+07	4.90292E+07		-5.8	20
Endrin	A	0.100	0.0916	4.866294E+07	4.24102E+07		-12.8	20
4,4′-DDD	A	0.100	0.0894	3.851972E+07	3.57535E+07		-7.2	20
Endosulfan II	A	0.100	0.0901	4.404929E+07	4.00408E+07		-9.1	20
4,4′-DDT	A	0.100	0.0869	3.568835E+07	3.6198E+07		1.4	20
Endrin aldehyde	A	0.100	0.0957	3.019672E+07	2.99982E+07		-0.7	20
Methoxychlor	A	0.100	0.0816	1.779768E+07	1.72748E+07		-2.9	20
Endosulfan sulfate	A	0.100	0.0945	3.317137E+07	3.47286E+07		4.7	20
Endrin ketone	A	0.100	0.0894	4.394762E+07	4.08316E+07		-7.1	20
alpha-BHC [2C]	A	0.100	0.0964	7.828165E+07	7.27792E+07		-7.0	20
gamma-BHC [2C]	A	0.100	0.0958	6.871985E+07	6.43897E+07		-6.3	20
beta-BHC [2C]	A	0.100	0.0994	2.514164E+07	2.45859E+07		-2.2	20
delta-BHC [2C]	A	0.100	0.0994	5.308931E+07	5.81435E+07		9.5	20
Heptachlor [2C]	A	0.100	0.0917	6.610146E+07	6.12193E+07		-7.4	20
Aldrin [2C]	A	0.100	0.0937	6.765244E+07	5.95778E+07		-11.9	20
Heptachlor epoxide [2C]	A	0.100	0.0912	5.916389E+07	5.13013E+07		-13.3	20
Chlordane-gamma [2C]	A	0.100	0.0939	6.192916E+07	5.37123E+07		-13.3	20
Chlordane-alpha [2C]	A	0.100	0.0926	5.890229E+07	5.06954E+07		-13.9	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LGB041-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/13/06
Lab Sample ID:	BA00088-CCV4	Injection Time:	07:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0934	5.631129E+07	4.98782E+07		-11.4	20
Endosulfan I [2C]	A	0.100	0.0919	5.389465E+07	4.67781E+07		-13.2	20
Dieldrin [2C]	A	0.100	0.0929	5.915392E+07	5.2128E+07		-11.9	20
Endrin [2C]	A	0.100	0.0947	5.057263E+07	4.35997E+07		-13.8	20
4,4'-DDD [2C]	A	0.100	0.0933	4.247934E+07	3.87936E+07		-8.7	20
Endosulfan II [2C]	A	0.100	0.0931	4.869335E+07	4.27436E+07		-12.2	20
4,4'-DDT [2C]	A	0.100	0.0913	3.693651E+07	3.82121E+07		3.5	20
Endrin aldehyde [2C]	A	0.100	0.0990	3.253183E+07	3.20093E+07		-1.6	20
Methoxychlor [2C]	A	0.100	0.0846	1.7353E+07	1.70797E+07		-1.6	20
Endosulfan sulfate [2C]	A	0.100	0.0975	3.596362E+07	3.74053E+07		4.0	20
Endrin ketone [2C]	A	0.100	0.0918	4.611414E+07	4.22122E+07		-8.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LGA046-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/13/06
Lab Sample ID:	BA00088-CCV5	Injection Time:	09:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0957	7.398562E+07	6.96693E+07		-5.8	20
gamma-BHC	A	0.100	0.0953	6.491869E+07	6.15924E+07		-5.1	20
beta-BHC	A	0.100	0.0974	2.324562E+07	2.26211E+07		-2.7	20
delta-BHC	A	0.100	0.0988	4.983083E+07	5.60234E+07		12.4	20
Heptachlor	A	0.100	0.0899	6.182335E+07	5.76833E+07		-6.7	20
Aldrin	A	0.100	0.0925	6.313387E+07	5.68751E+07		-9.9	20
Heptachlor epoxide	A	0.100	0.0898	5.464768E+07	4.85412E+07		-11.2	20
Chlordane-gamma	A	0.100	0.0918	5.693179E+07	5.07347E+07		-10.9	20
Chlordane-alpha	A	0.100	0.0908	5.472262E+07	4.81158E+07		-12.1	20
4,4′-DDE	A	0.100	0.0898	5.1587E+07	4.70836E+07		-8.7	20
Endosulfan I	A	0.100	0.0909	5.229753E+07	4.51892E+07		-13.6	20
Dieldrin	A	0.100	0.0913	5.202288E+07	4.96416E+07		-4.6	20
Endrin	A	0.100	0.0932	4.866294E+07	4.31346E+07		-11.4	20
4,4′-DDD	A	0.100	0.0906	3.851972E+07	3.62715E+07		-5.8	20
Endosulfan II	A	0.100	0.0914	4.404929E+07	4.06291E+07		-7.8	20
4,4′-DDT	A	0.100	0.0902	3.568835E+07	3.75744E+07		5.3	20
Endrin aldehyde	A	0.100	0.0971	3.019672E+07	3.04511E+07		0.8	20
Methoxychlor	A	0.100	0.0858	1.779768E+07	1.81715E+07		2.1	20
Endosulfan sulfate	A	0.100	0.0973	3.317137E+07	3.57304E+07		7.7	20
Endrin ketone	A	0.100	0.0926	4.394762E+07	4.22975E+07		-3.8	20
alpha-BHC [2C]	A	0.100	0.0966	7.828165E+07	7.29745E+07		-6.8	20
gamma-BHC [2C]	A	0.100	0.0970	6.871985E+07	6.51657E+07		-5.2	20
beta-BHC [2C]	A	0.100	0.0999	2.514164E+07	2.47024E+07		-1.7	20
delta-BHC [2C]	A	0.100	0.100	5.308931E+07	5.84863E+07		10.2	20
Heptachlor [2C]	A	0.100	0.0923	6.610146E+07	6.15945E+07		-6.8	20
Aldrin [2C]	A	0.100	0.0940	6.765244E+07	5.97556E+07		-11.7	20
Heptachlor epoxide [2C]	A	0.100	0.0914	5.916389E+07	5.14222E+07		-13.1	20
Chlordane-gamma [2C]	A	0.100	0.0942	6.192916E+07	5.39031E+07		-13.0	20
Chlordane-alpha [2C]	A	0.100	0.0930	5.890229E+07	5.08706E+07		-13.6	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612019
Lab File ID:	9LGB046-0	Calibration Date:	12/01/06 00:00
Sequence:	BA00088	Injection Date:	12/13/06
Lab Sample ID:	BA00088-CCV5	Injection Time:	09:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0936	5.631129E+07	5.00261E+07		-11.2	20
Endosulfan I [2C]	A	0.100	0.0922	5.389465E+07	4.69204E+07		-12.9	20
Dieldrin [2C]	A	0.100	0.0933	5.915392E+07	5.23467E+07		-11.5	20
Endrin [2C]	A	0.100	0.0962	5.057263E+07	4.43129E+07		-12.4	20
4,4'-DDD [2C]	A	0.100	0.0944	4.247934E+07	3.92519E+07		-7.6	20
Endosulfan II [2C]	A	0.100	0.0939	4.869335E+07	4.30764E+07		-11.5	20
4,4'-DDT [2C]	A	0.100	0.0959	3.693651E+07	4.0124E+07		8.6	20
Endrin aldehyde [2C]	A	0.100	0.0997	3.253183E+07	3.22249E+07		-0.9	20
Methoxychlor [2C]	A	0.100	0.0907	1.7353E+07	1.83117E+07		5.5	20
Endosulfan sulfate [2C]	A	0.100	0.0996	3.596362E+07	3.82258E+07		6.3	20
Endrin ketone [2C]	A	0.100	0.0951	4.611414E+07	4.37311E+07		-5.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW2S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-01	File ID:	9LBA009A-0
Sampled:	11/30/06 16:10	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 13:49
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
gamma-BHC	* 1	8.385	8.36	0.025		0.007	1757.1
beta-BHC	* 1	8.516	8.557429	0.0414		0.097	378.4
delta-BHC	* 1	8.861	8.861	0		0.42	4.2
Aldrin	1	9.66	9.697286	0.0373		3.5	1321.1
Chlordane-alpha	* 1	11.061	11.08657	0.0256		0.27	39.1
4,4'-DDE	* 1	11.264	11.22971	0.0343		0.033	94.1
4,4'-DDD	* 1	12.137	12.12643	0.0106		0.071	80.3
Endosulfan sulfate	* 1	13.598	13.58729	0.0107		0.045	593.3
Endrin ketone	1	13.964	13.981	0.017		4.7	944.5
alpha-BHC	2	7.599	7.588857	0.0101		0.15	0.0
gamma-BHC	2	8.261	8.25	0.011		0.13	1757.1
beta-BHC	2	8.434	8.446286	0.0123		0.46	378.4
delta-BHC	2	8.924	8.939286	0.0153		0.41	4.2
Heptachlor	2	8.968	8.988714	0.0207		1.4	0.0
Aldrin	* 2	9.501	9.507857	0.00686		0.25	1321.1
Chlordane-gamma	2	10.756	10.72443	0.0316		0.063	0.0
Chlordane-alpha	2	10.92	10.94843	0.0284		0.19	39.1
4,4'-DDE	2	11.234	11.24086	0.00686		0.017	94.1
Dieldrin	2	11.434	11.42657	0.00743		0.56	0.0
Endrin	2	11.871	11.86814	0.00286		0.17	0.0
4,4'-DDD	2	12.1	12.09171	0.00829		0.13	80.3
4,4'-DDT	2	12.529	12.535	0.006		0.28	0.0
Endosulfan sulfate	2	13.054	13.07857	0.0246		0.31	593.3
Endrin ketone	* 2	13.871	13.833	0.038		0.45	944.5
2,4,5,6-TCMX	* 1	6.563	6.578857	0.0159		0.749	11.6
2,4,5,6-TCMX	2	6.296	6.311	0.015		0.836	11.6
DBC	* 1	13.843	13.85357	0.0106		1.67	93.0
DBC	2	13.667	13.67986	0.0129		0.867	93.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW6D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-02	File ID:	9LBA010A-0
Sampled:	11/30/06 14:50	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 14:15
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Endrin ketone	* 1	13.966	13.981	0.015		0.004	0.0
2,4,5,6-TCMX	* 1	6.564	6.578857	0.0149		0.610	5.4
2,4,5,6-TCMX	2	6.298	6.311	0.013		0.579	5.4
DBC	* 1	13.839	13.85357	0.0146		0.724	5.5
DBC	2	13.667	13.67986	0.0129		0.686	5.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW10S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-03	File ID:	9LBA011A-0
Sampled:	11/30/06 16:15	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 14:41
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
2,4,5,6-TCMX	* 1	6.564	6.578857	0.0149		0.660	3.9
2,4,5,6-TCMX	2	6.298	6.311	0.013		0.635	3.9
DBC	* 1	13.84	13.85357	0.0136		0.760	5.8
DBC	2	13.668	13.67986	0.0119		0.718	5.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW18D-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-04	File ID:	9LBA012-0
Sampled:	11/30/06 10:10	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 15:07
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
2,4,5,6-TCMX	* 1	6.564	6.578857	0.0149		0.662	4.7
2,4,5,6-TCMX	2	6.298	6.311	0.013		0.632	4.7
DBC	* 1	13.839	13.85357	0.0146		0.781	5.4
DBC	2	13.667	13.67986	0.0129		0.741	5.4

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW18S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-05	File ID:	9LBA013-0
Sampled:	11/30/06 12:07	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 15:33
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
2,4,5,6-TCMX	* 1	6.563	6.578857	0.0159		0.661	5.8
2,4,5,6-TCMX	2	6.298	6.311	0.013		0.625	5.8
DBC	* 1	13.839	13.85357	0.0146		0.771	5.3
DBC	2	13.666	13.67986	0.0139		0.732	5.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW20S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-06	File ID:	9LBA015-0
Sampled:	11/30/06 13:45	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 16:25
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.546	8.557429	0.0114		0.009	0.0
Heptachlor epoxide	* 1	10.673	10.68829	0.0153		0.004	100.0
Chlordane-gamma	* 1	10.856	10.88429	0.0283		0.016	25.0
Dieldrin	* 1	11.638	11.65243	0.0144		0.047	4.4
Endosulfan II	* 1	12.307	12.33386	0.0269		0.003	33.3
Heptachlor epoxide	2	10.417	10.43157	0.0146		0.002	100.0
Chlordane-gamma	2	10.764	10.72443	0.0396		0.020	25.0
Dieldrin	2	11.414	11.42657	0.0126		0.045	4.4
Endosulfan II	2	12.155	12.18871	0.0337		0.004	33.3
2,4,5,6-TCMX	* 1	6.565	6.578857	0.0139		0.659	5.6
2,4,5,6-TCMX	2	6.299	6.311	0.012		0.624	5.6
DBC	* 1	13.84	13.85357	0.0136		0.771	4.9
DBC	2	13.666	13.67986	0.0139		0.735	4.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW27S-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-07	File ID:	9LBA016-0
Sampled:	11/30/06 11:15	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 16:51
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.743	7.757286	0.0143		0.21	4.0
gamma-BHC	* 1	8.345	8.36	0.015		0.33	4.3
beta-BHC	* 1	8.544	8.557429	0.0134		0.16	15.9
delta-BHC	* 1	8.846	8.861	0.015		0.41	2.2
Chlordane-alpha	1	11.107	11.08657	0.0204		0.012	500.0
Dieldrin	* 1	11.674	11.65243	0.0216		0.004	33.3
4,4'-DDD	* 1	12.138	12.12643	0.0116		0.001	1600.0
Endosulfan II	* 1	12.305	12.33386	0.0289		0.013	15.4
Endrin ketone	* 1	13.963	13.981	0.018		0.006	50.0
alpha-BHC	2	7.575	7.588857	0.0139		0.20	4.0
gamma-BHC	2	8.237	8.25	0.013		0.34	4.3
beta-BHC	2	8.433	8.446286	0.0133		0.14	15.9
delta-BHC	2	8.926	8.939286	0.0133		0.40	2.2
Chlordane-alpha	* 2	10.936	10.94843	0.0124		0.002	500.0
Dieldrin	2	11.413	11.42657	0.0136		0.003	33.3
4,4'-DDD	2	12.134	12.09171	0.0423		0.017	1600.0
Endosulfan II	2	12.194	12.18871	0.00529		0.015	15.4
Endrin ketone	2	13.867	13.833	0.034		0.004	50.0
2,4,5,6-TCMX	* 1	6.563	6.578857	0.0159		0.582	9.8
2,4,5,6-TCMX	2	6.297	6.311	0.014		0.530	9.8
DBC	* 1	13.839	13.85357	0.0146		0.758	6.0
DBC	2	13.665	13.67986	0.0149		0.715	6.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-R01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-08	File ID:	9LBA017-0
Sampled:	11/30/06 15:01	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 17:17
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Dieldrin	1	11.635	11.65243	0.0174		0.028	1300.0
4,4'-DDT	* 1	12.512	12.52529	0.0133		0.012	8.3
Dieldrin	* 2	11.397	11.42657	0.0296		0.002	1300.0
4,4'-DDT	2	12.523	12.535	0.012		0.013	8.3
2,4,5,6-TCMX	* 1	6.564	6.578857	0.0149		0.672	0.4
2,4,5,6-TCMX	2	6.298	6.311	0.013		0.675	0.4
DBC	* 1	13.84	13.85357	0.0136		0.771	4.2
DBC	2	13.668	13.67986	0.0119		0.740	4.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

USGS-SSMW45-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-09	File ID:	9LBA018-0
Sampled:	11/30/06 15:10	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 17:43
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
2,4,5,6-TCMX	* 1	6.564	6.578857	0.0149		0.592	5.7
2,4,5,6-TCMX	2	6.298	6.311	0.013		0.560	5.7
DBC	* 1	13.84	13.85357	0.0136		0.707	5.1
DBC	2	13.668	13.67986	0.0119		0.673	5.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-DU01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-10	File ID:	9LBA019-0
Sampled:	12/01/06 00:00	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 18:09
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.544	8.557429	0.0134		0.28	12.2
Aldrin	* 1	9.66	9.697286	0.0373		0.010	40.0
Heptachlor epoxide	* 1	10.674	10.68829	0.0143		0.073	25.9
Chlordane-gamma	* 1	10.87	10.88429	0.0143		0.25	1.6
Chlordane-alpha	* 1	11.069	11.08657	0.0176		0.16	23.1
Dieldrin	1	11.637	11.65243	0.0154		0.038	11.8
Endrin	1	12	11.99529	0.00471		0.021	320.0
4,4'-DDD	* 1	12.108	12.12643	0.0184		0.54	6.5
Endosulfan II	* 1	12.305	12.33386	0.0289		0.007	114.3
4,4'-DDT	* 1	12.508	12.52529	0.0173		0.38	1.3
Endrin aldehyde	1	12.944	12.95286	0.00886		0.011	0.0
Endrin ketone	* 1	14.025	13.981	0.044		0.006	750.0
beta-BHC	2	8.433	8.446286	0.0133		0.25	12.2
Aldrin	2	9.536	9.507857	0.0281		0.014	40.0
Heptachlor epoxide	2	10.417	10.43157	0.0146		0.058	25.9
Chlordane-gamma	2	10.711	10.72443	0.0134		0.26	1.6
Chlordane-alpha	2	10.936	10.94843	0.0124		0.20	23.1
4,4'-DDE	2	11.221	11.24086	0.0199		0.016	0.0
Dieldrin	* 2	11.411	11.42657	0.0156		0.034	11.8
Endrin	* 2	11.854	11.86814	0.0141		0.005	320.0
4,4'-DDD	2	12.075	12.09171	0.0167		0.51	6.5
Endosulfan II	2	12.194	12.18871	0.00529		0.015	114.3
4,4'-DDT	2	12.52	12.535	0.015		0.38	1.3
Endrin ketone	2	13.827	13.833	0.006		0.051	750.0
2,4,5,6-TCMX	* 1	6.564	6.578857	0.0149		0.554	11.0
2,4,5,6-TCMX	2	6.299	6.311	0.012		0.499	11.0
DBC	* 1	13.838	13.85357	0.0156		0.720	9.1
DBC	2	13.665	13.67986	0.0149		0.660	9.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-DU01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-10RE1	File ID:	9A5A012-0
Sampled:	12/01/06 00:00	Prepared:	12/07/06 11:12	Analyzed:	01/05/07 18:24
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00142		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.759	7.757286	0.00171		2.0	1.0
gamma-BHC	* 1	8.361	8.36	0.001		2.5	0.4
delta-BHC	* 1	8.86	8.861	0.001		1.7	1.2
alpha-BHC	2	7.598	7.588857	0.00914		2.0	1.0
gamma-BHC	2	8.258	8.25	0.008		2.5	0.4
delta-BHC	2	8.946	8.939286	0.00671		1.7	1.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW13D-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-11	File ID:	9LBA020-0
Sampled:	12/01/06 10:45	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 18:35
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.218	11.22971	0.0117		0.003	0.0
4,4'-DDD	* 1	12.113	12.12643	0.0134		0.31	3.0
Chlordane-gamma	2	10.711	10.72443	0.0134		0.004	0.0
4,4'-DDD	2	12.079	12.09171	0.0127		0.30	3.0
2,4,5,6-TCMX	* 1	6.564	6.578857	0.0149		0.621	4.9
2,4,5,6-TCMX	2	6.298	6.311	0.013		0.592	4.9
DBC	* 1	13.84	13.85357	0.0136		0.723	4.6
DBC	2	13.666	13.67986	0.0139		0.691	4.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610359-12	File ID:	9LBA021-0
Sampled:	12/01/06 09:30	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 19:01
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.545	8.557429	0.0124		0.32	2.9
Heptachlor	* 1	9.184	9.196571	0.0126		0.028	33.3
Aldrin	* 1	9.66	9.697286	0.0373		0.011	45.5
Heptachlor epoxide	* 1	10.675	10.68829	0.0133		0.082	46.4
Chlordane-gamma	* 1	10.87	10.88429	0.0143		0.32	1.6
Chlordane-alpha	* 1	11.069	11.08657	0.0176		0.28	36.8
4,4'-DDE	* 1	11.19	11.22971	0.0397		0.004	425.0
Endosulfan I	* 1	11.3	11.289	0.011		0.011	18.2
Dieldrin	* 1	11.639	11.65243	0.0134		0.036	11.1
Endrin	1	12.001	11.99529	0.00571		0.025	316.7
4,4'-DDD	* 1	12.109	12.12643	0.0174		0.69	7.7
Endosulfan II	* 1	12.307	12.33386	0.0269		0.008	125.0
4,4'-DDT	* 1	12.509	12.52529	0.0163		0.49	0.6
Endrin aldehyde	1	12.944	12.95286	0.00886		0.021	0.0
Methoxychlor	* 1	13.22	13.24029	0.0203		0.011	309.1
Endosulfan sulfate	* 1	13.596	13.58729	0.00871		0.006	0.0
Endrin ketone	* 1	14.027	13.981	0.046		0.017	211.8
beta-BHC	2	8.434	8.446286	0.0123		0.31	2.9
Heptachlor	2	9.01	8.988714	0.0213		0.021	33.3
Aldrin	2	9.536	9.507857	0.0281		0.016	45.5
Heptachlor epoxide	2	10.418	10.43157	0.0136		0.056	46.4
Chlordane-gamma	2	10.711	10.72443	0.0134		0.31	1.6
Chlordane-alpha	2	10.936	10.94843	0.0124		0.20	36.8
4,4'-DDE	2	11.221	11.24086	0.0199		0.021	425.0
Endosulfan I	2	11.055	11.01643	0.0386		0.013	18.2
Dieldrin	2	11.412	11.42657	0.0146		0.040	11.1
Endrin	* 2	11.851	11.86814	0.0171		0.006	316.7
4,4'-DDD	2	12.076	12.09171	0.0157		0.64	7.7
Endosulfan II	2	12.194	12.18871	0.00529		0.018	125.0
4,4'-DDT	2	12.521	12.535	0.014		0.49	0.6
Methoxychlor	2	13.591	13.54314	0.0479		0.045	309.1
Endrin ketone	2	13.828	13.833	0.005		0.053	211.8
2,4,5,6-TCMX	* 1	6.566	6.578857	0.0129		0.528	9.5

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-12	File ID:	9LBB021-0
Sampled:	12/01/06 09:30	Prepared:	12/07/06 11:12	Analyzed:	12/08/06 19:01
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00088		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
2,4,5,6-TCMX	2	6.3	6.311	0.011		0.482	9.5
DBC	* 1	13.84	13.85357	0.0136		0.707	9.1
DBC	2	13.667	13.67986	0.0129		0.648	9.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW13S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610359-12RE1	File ID:	9LGA045-0
Sampled:	12/01/06 09:30	Prepared:	12/07/06 11:12	Analyzed:	12/13/06 08:47
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L07002	Sequence:	BA00142		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.024	7.757286	0.267		2.7	2.2
gamma-BHC	* 1	8.628	8.36	0.268		3.3	2.4
delta-BHC	* 1	9.125	8.861	0.264		2.3	3.9
alpha-BHC	2	7.839	7.588857	0.25		2.8	2.2
gamma-BHC	2	8.498	8.25	0.248		3.4	2.4
delta-BHC	2	9.181	8.939286	0.242		2.4	3.9

* Column used for quantitation

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT		JOB NUMBER	
NAS Jacksonville		00497	
SUBJECT	Sample Calc		
BASED ON	SW-846	DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE
KAC			3/1/07

Jax47-937MW2S-113006 Benzene 4.4 ug/L

$$\frac{71165}{59438} \times \frac{50}{1,357} = 4.4$$

Jax47-937MW2S-113006 naphthalene 14 ug/L

$$\frac{282915}{654545} \times \frac{40}{1.197} \times \frac{.5\,ml}{500\,ml} \times \frac{1000\,ug}{1\,mg} = 14.4$$

Jax47-937MW2S-113006 delta-BHC 0.42 ug/L

$$\frac{2169051}{49830830} \times \frac{5\,ml}{500\,ml} \times \frac{1000\,ug}{1\,mg} = 0.42$$

Data File : C:\HPCHEM\1\DATA\20067LB\7LB047.D Vial: 40
Acq On : 7 Dec 2006 10:28 Operator:
Sample : b610359-01 2S Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 20 12:28 2006 Quant Results File: 826W6L2.RES

Quant Method : C:\HPCHEM\1\METHODS\826W6L2.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 15 15:51:32 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	248646	50.00	ug/L	0.00
41) 1,4-DIFLUOROBENZENE (IS)	12.09	114	594380	50.00	ug/L	0.00
59) CHLOROBENZENE-d5(IS)	15.28	117	669968	50.00	ug/L	0.00
85) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	305552	50.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane (surr	10.88	113	216695	52.63	ug/L	0.00
Spiked Amount 50.000	Range 71 - 136		Recovery = 105.26%			
44) d4-1,2-Dichloroethane(surr	11.56	65	253844	44.75	µg/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.50%			
58) D8-Toluene (surr)	13.62	98	805984	51.94	ug/L	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.88%			
79) Bromofluorobenzene (surr)	16.40	95	368511	49.00	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 98.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.		
3) Chloromethane	0.00	50		N.D.		
4) Vinyl Chloride	4.80	62	21301	5.10	ug/L	82
5) Bromomethane	5.71	94	187	-5.20	ug/L	89
6) Chloroethane	0.00	64		N.D. d		
7) Trichlorofluoromethane	0.00	101		N.D.		
8) Diethyl ether	0.00	59		N.D. d		
9) Ethanol	0.00	45		N.D. d		
10) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #		
11) acrolein	0.00	56		N.D.		
12) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.		
13) 1,1-Dichloroethene	0.00	96		N.D.		
14) Acetone	0.00	43		N.D. d		
15) Methyl acetate	0.00	43		N.D.		
16) Iodomethane	0.00	142		N.D. d		
17) Carbon disulfide	0.00	76		N.D.		
18) Acetonitrile	0.00	41		N.D. d		
19) 3-chloropropene	0.00	41		N.D.		
20) Methylene Chloride	8.33	84	1627	-1.17	ug/L #	46
21) Acrylonitrile	0.00	53		N.D.		
22) Methyl tert-butyl ether	0.00	73		N.D.		
23) t-1,2-Dichloroethene	8.61	96	6611	1.70	ug/L	90
24) 1,1-Dichloroethane	0.00	63		N.D.		
25) Vinyl Acetate	9.89	43	310	-20.63	ug/L #	1
26) Isopropyl ether	0.00	45		N.D.		
27) Chloroprene	0.00	88		N.D.		
28) 2-Butanone	0.00	72		N.D. d		
29) c-1,2-Dichloroethene	10.32	96	1210000	290.69	ug/L	96
30) 2,2-Dichloropropane	0.00	77		N.D.		
31) Propionitrile	0.00	54		N.D. d		
32) Methacrylonitrile	0.00	41		N.D. d		
33) Bromochloromethane	10.64	128	211	-1.95	ug/L	85
34) Cyclohexane	0.00	56		N.D. d		
35) Chloroform	0.00	83		N.D.		
36) Dibromofluoromethane	10.88	113	216695	52.63	ug/L	80
38) 1,1,1-Trichloroethane	0.00	97		N.D.		
39) 1,1-Dichloropropene	0.00	75		N.D.		
40) Isobutyl alcohol	0.00	43		N.D. d		
42) Carbon Tetrachloride	0.00	117		N.D.		
43) d4-1,2-Dichloroethane	11.56	65	253844	44.75	µg/L #	77

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\20067LB\7LB047.D Vial: 40
Acq On : 7 Dec 2006 10:28 Operator:
Sample : b610359-01 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 20 12:28 2006 Quant Results File: 826W6L2.RES

Quant Method : C:\HPCHEM\1\METHODS\826W6L2.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 15 15:51:32 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	0.00	62		N.D.	
46)	Benzene	11.42	78	71165	4.41 ug/L	100
47)	Trichloroethene	12.09	130	11251	3.07 ug/L	95
48)	Methyl cyclohexane	0.00	83		N.D. d	
49)	1,2-Dichloropropane	0.00	63		N.D. d	
50)	Methyl methacrylate	0.00	69		N.D.	
51)	1,4-Dioxane	12.96	88	119	-2.98 ug/L #	1
52)	Dibromomethane	0.00	93		N.D.	
53)	Bromodichloromethane	0.00	83		N.D.	
54)	2-Chloroethyl vinyl ether	0.00	63		N.D. d	
55)	C-1,3-Dichloropropene	0.00	75		N.D.	
56)	4-Methyl-2-pentanone	0.00	100		N.D. d	
57)	D8-Toluene	13.62	98	805984	51.94 ug/L	99
60)	Toluene	13.68	92	35351	3.48 ug/L	99
61)	T-1,3-Dichloropropene	0.00	75		N.D.	
62)	Ethyl methacrylate	0.00	69		N.D.	
63)	1,1,2-Trichloroethane	0.00	97		N.D.	
64)	1,3-Dichloropropane	0.00	76		N.D.	
65)	Tetrachloroethene	14.11	164	14724	3.82 ug/L	96
66)	2-Hexanone	0.00	43		N.D.	
67)	Dibromochloromethane	0.00	129		N.D.	
68)	1,2-Dibromoethane	0.00	107		N.D.	
69)	Chlorobenzene	15.30	112	8077	0.79 ug/L	95
70)	1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
71)	Ethylbenzene	15.28	106	138361	26.75 ug/L #	69
72)	m-xylene & p-xylene	15.41	106	178610	28.02 ug/L	94
73)	O-Xylene	15.84	106	381520	61.45 ug/L	88
74)	Styrene	0.00	104		N.D. d	
75)	Bromoform	0.00	173		N.D. d	
76)	Isopropylbenzene	16.11	105	21736	1.56 ug/L	94
77)	C-1,4-Dichloro-2-butene	0.00	53		N.D. d	
78)	Bromofluorobenzene	16.40	95	368511	49.00 ug/L	83
80)	1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
81)	Bromobenzene	0.00	156		N.D.	
82)	1,2,3-Trichloropropane	0.00	75		N.D.	
83)	T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
84)	n-Propylbenzene	16.48	91	34530	1.62 ug/L	82
86)	2-Chlorotoluene	0.00	91		N.D.	
87)	1,3,5-Trimethylbenzene	16.63	105	145280	11.35 ug/L	99
88)	4-Chlorotoluene	0.00	91		N.D.	
89)	tert-Butylbenzene	0.00	119		N.D.	
90)	Pentachloroethane	0.00	167		No Calib #	
91)	1,2,4-Trimethylbenzene	17.01	105	577496	43.46 ug/L	100
92)	s-Butylbenzene	0.00	105		N.D.	
93)	1,3-Dichlorobenzene	0.00	146		N.D.	
94)	p-Isopropyltoluene	17.23	119	6953	0.58 ug/L	91
95)	1,4-Dichlorobenzene	0.00	146		N.D.	
96)	n-Butylbenzene	0.00	91		N.D. d	
97)	1,2-Dichlorobenzene	0.00	146		N.D.	
98)	DBCP	0.00	157		N.D. d	
99)	1,2,4-Trichlorobenzene	0.00	180		N.D. d	
100)	Hexachlorobutadiene	0.00	225		N.D. d	
101)	Naphthalene	19.92	128	209235	20.92 ug/L	97
102)	1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LJ002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00112	Injection Date:	12/15/06
Lab Sample ID:	BA00112-CCV2	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	84.6	0.4891056	0.827048		69.1	
Chloromethane	A	50.0	61.4	0.9655093	1.18646	0.1	22.9	
Vinyl chloride	A	50.0	57.4	0.8395935	0.963039		14.7	15
Bromomethane	L	50.0	70.7	0.6725491	0.658189		41.3	15 *
Chloroethane	A	50.0	50.1	0.6032704	0.604503		0.2	
Trichlorofluoromethane	A	50.0	46.1	0.9226812	0.851164		-7.8	
1,1-Dichloroethene	A	50.0	45.4	0.685872	0.623003		-9.2	15
Acetone	A	250	178	0.2787158	0.198223		-28.9	
Carbon disulfide	A	250	162	2.811647	1.82236		-35.2	
Methylene Chloride	L	50.0	51.7	1.008004	0.918911		3.4	
Methyl-tert-Butyl Ether	A	50.0	46.9	2.081972	1.95427		-6.1	
trans-1,2-Dichloroethene	A	50.0	49.8	0.7836962	0.781057		-0.3	
1,1-Dichloroethane	A	50.0	49.1	1.563742	1.53586	0.1	-1.8	15
2-Butanone	A	250	189	8.788243E-02	0.0664196		-24.4	
cis-1,2-Dichloroethene	A	50.0	49.8	0.837048	0.833592		-0.4	
Chloroform	A	50.0	47.6	1.489974	1.41966		-4.7	15
1,1,1-Trichloroethane	A	50.0	43.4	1.087956	0.94462		-13.2	15
Carbon Tetrachloride	A	50.0	44.3	0.3996015	0.354103		-11.4	15
1,2-Dichloroethane	A	50.0	46.9	0.5416884	0.508337		-6.2	
Benzene	A	50.0	53.4	1.357218	1.44804		6.7	15
Trichloroethene	A	50.0	46.2	0.3086262	0.284951		-7.7	15
1,2-Dichloropropane	A	50.0	52.6	0.3922777	0.412801		5.2	
Bromodichloromethane	A	50.0	50.8	0.5324099	0.524643		-1.5	15
cis-1,3-Dichloropropene	A	50.0	54.2	0.5674475	0.614668		8.3	15
4-Methyl-2-pentanone	A	250	198	4.531632E-02	0.0358868		-20.8	
Toluene	A	50.0	55.4	0.7588912	0.841623		10.9	15
trans-1,3-Dichloropropene	A	50.0	58.9	0.4674258	0.550335		17.7	15 *
1,1,2-Trichloroethane	A	50.0	53.9	0.3006846	0.32414		7.8	15
Tetrachloroethene	L	50.0	32.0	0.3041882	0.218025		-36.1	15 *

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LJ002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00112	Injection Date:	12/15/06
Lab Sample ID:	BA00112-CCV2	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2-Hexanone	A	250	240	0.2756401	0.264285		-4.1		
Dibromochloromethane	A	50.0	53.9	0.2968428	0.320062		7.8	15	
1,2-Dibromoethane	A	50.0	56.5	0.2957643	0.334256		13.0	15	
Chlorobenzene	A	50.0	55.6	0.75907	0.843886	0.3	11.2	15	
Ethylbenzene	A	50.0	57.9	0.3859952	0.447133		15.8	15	*
m,p-Xylenes	A	100	116	0.4757066	0.553594		16.4	15	*
o-Xylene	A	50.0	55.9	0.4633409	0.518072		11.8	15	
Styrene	A	50.0	56.9	0.8131023	0.92492		13.8	15	
Bromoform	L	50.0	48.2	0.1459766	0.162578	0.1	-3.7	15	
Isopropylbenzene	A	50.0	56.4	1.038279	1.17132		12.8	15	
1,1,2,2-Tetrachloroethane	A	50.0	55.4	0.4025072	0.446138	0.3	10.8	15	
1,3-Dichlorobenzene	A	50.0	55.1	1.157446	1.27582		10.2	15	
1,4-Dichlorobenzene	A	50.0	57.6	1.168477	1.34496		15.1	15	
1,2-Dichlorobenzene	A	50.0	56.8	1.069142	1.21559		13.7	15	
1,2-Dibromo-3-chloropropane	L	50.0	50.4	0.1008636	0.115219		0.8	15	
1,2,4-Trichlorobenzene	A	50.0	57.0	0.6103911	0.695385		13.9	15	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\5LC\
InstName : JSVGCMS1
Data File : 5LC017.D
Acq On : 8 Dec 2006 18:15
Operator : jj
Sample : B610359-01
Misc : @8270 ext water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 21 15:59:56 2006
Quant Method : C:\MSDCHEM\1\METHODS\8270-5KX.M
Quant Title : 8270 Calibration Curve 11-29-06 (8270-5KX)
QLast Update : Thu Nov 30 10:07:24 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.79	152	188862	40.00	mg/L	-0.02
22) NAPHTHALENE-d8	5.98	136	654545	40.00	mg/L	-0.03
41) ACENAPHTHENE-d10	7.72	164	438864	40.00	mg/L	-0.02
67) PHENANTHRENE-d10	9.20	188	791842	40.00	mg/L	-0.03
82) CHRYSENE-d12	11.87	240	876067	40.00	mg/L	0.00
89) PERYLENE-d12	13.24	264	922699	40.00	mg/L	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (acid surr)	3.69	112	263072	53.65	mg/L	-0.01
Spiked Amount 100.000	Range 21 - 86		Recovery = 53.65%			
7) Phenol -D5 (acid surr)	4.46	99	263483	40.88	mg/L	-0.02
Spiked Amount 100.000	Range 10 - 100		Recovery = 40.88%			
23) Nitrobenzene -D5 (b/n surr	5.30	82	192387	35.66	mg/L	-0.03
Spiked Amount 50.000	Range 37 - 113		Recovery = 71.32%			
44) 2-Fluorobiphenyl (b/n surr	7.03	172	591648	35.31	mg/L	-0.02
Spiked Amount 50.000	Range 37 - 105		Recovery = 70.62%			
65) 2,4,6-Tribromophenol (acid	8.51	330	297139	100.65	mg/L	-0.02
Spiked Amount 100.000	Range 16 - 116		Recovery = 100.65%			
79) Terphenyl -D14 (b/n surr)	10.78	244	980953	41.00	mg/L	-0.02
Spiked Amount 50.000	Range 34 - 109		Recovery = 82.00%			

Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.		
3) Pyridine	0.00	79	0	N.D.		
5) 2-Fluorophenol	3.69	112	263072	53.65	mg/L	95
6) Benzaldehyde	4.44	105	91201	No Calib	#	
8) Phenol -D5	4.46	99	263483	40.88	mg/L	95
9) Phenol	0.00	94	0	N.D.		
10) Bis(2-chloroethyl)ether	4.63	93	2200	N.D.		
11) 2-Chlorophenol	0.00	128	0	N.D.		
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
14) Benzyl Alcohol	5.00	108	12096	N.D.		
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
16) 2-Methylphenol	5.01	107	10294	N.D.		
17) Bis(2-chloroisopropyl)ethe	4.99	45	9927	N.D.		
18) 3 & 4-Methylphenol	5.00	108	12096	N.D.		
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.		
20) Acetophenone	5.13	105	1893	No Calib	#	
21) Hexachloroethane	5.27	117	6163	N.D.		
24) Nitrobenzene -D5	5.30	82	192387	35.66	mg/L	97
25) Nitrobenzene	5.30	77	1863	N.D.		
26) Isophorone	5.36	82	1609	N.D.		
27) 2-Nitrophenol	0.00	139	0	N.D.		
28) 2,4-Dimethylphenol	5.65	122	20994	N.D.		
29) Bis(2-chloroethoxy)methane	5.73	93	2471	N.D.		
30) Benzoic Acid	0.00	105	0	N.D.	d	
31) 2,4-Dichlorophenol	5.85	162	33485	5.70	mg/L	89
32) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
33) Naphthalene	6.01	128	282915	14.45	mg/L	98
34) 4-Chloroaniline	0.00	127	0	N.D.	d	
35) Hexachlorobutadiene	0.00	223	0	N.D.		
36) Caprolactam	6.47	55	206932	No Calib	#	
37) 4-Chloro-3-methylphenol	6.53	107	2986	N.D.		
38) 2-Methylnaphthalene	6.68	142	127116	9.66	mg/L	97
39) 1-Methylnaphthalene	6.78	142	85152	7.19	mg/L	96

Data Path : C:\msdchem\1\DATA\5LC\
InstName : JSVGCMS1
Data File : 5LC017.D
Acq On : 8 Dec 2006 18:15
Operator : jj
Sample : B610359-01
Misc : @8270 ext water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 21 15:59:56 2006
Quant Method : C:\MSDCHEM\1\METHODS\8270-5KX.M
Quant Title : 8270 Calibration Curve 11-29-06 (8270-5KX)
QLast Update : Thu Nov 30 10:07:24 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
40) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42) 2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43) 2,4,5-Trichlorophenol	7.01	196	920108	163.84 mg/L	96
45) 2-Fluorobiphenyl	7.03	172	591648	35.31 mg/L	99
46) 1,1'-Biphenyl	7.13	154	12676	No Calib #	
47) 2-Chloronaphthalene	0.00	162	0	N.D. d	
48) 2-Nitroaniline	7.27	65	2073	N.D.	
49) Dimethyl phthalate	7.25	163	11109	N.D.	
50) 2,6-Dinitrotoluene	0.00	165	0	N.D.	
51) Acenaphthylene	0.00	152	0	N.D.	
52) 3-Nitroaniline	0.00	138	0	N.D.	
53) Acenaphthene	7.72	154	1250	N.D.	
54) 2,4-Dinitrophenol	0.00	184	0	N.D.	
55) 4-Nitrophenol	0.00	109	0	N.D. d	
56) Dibenzofuran	7.92	168	1654	N.D.	
57) 2,4-Dinitrotoluene	0.00	165	0	N.D.	
58) Diethyl phthalate	8.12	149	49470	N.D.	
59) 4-Chlorophenyl phenyl ethe	0.00	204	0	N.D.	
60) Fluorene	8.26	166	1053	N.D.	
61) 4-Nitroaniline	0.00	138	0	N.D.	
62) 2-Methyl-4,6-dinitrophenol	0.00	198	0	N.D.	
63) N-Nitrosodiphenylamine	8.51	169	7475	N.D.	
64) DPH (as Azobenzene)	0.00	182	0	N.D.	
66) 2,4,6-Tribromophenol	8.51	330	297139	100.65 mg/L	99
68) 4-Bromophenylphenyl ether	0.00	248	0	N.D.	
69) Hexachlorobenzene	0.00	284	0	N.D.	
70) Atrazine	0.00	200	0	N.D.	
71) Pentachlorophenol	0.00	266	0	N.D.	
72) Phenanthrene	9.31	178	2584	N.D.	
73) Anthracene	9.31	178	2584	N.D.	
74) Carbazole	9.46	167	7540	N.D.	
75) Di-n-butyl phthalate	9.74	149	7187	N.D.	
76) Fluoranthene	0.00	202	0	N.D.	
77) Benzidine	0.00	184	0	N.D.	
78) Pyrene	10.78	202	2941	N.D.	
80) Terphenyl -D14	10.78	244	980953	41.00 mg/L	100
81) Benzylbutyl phthalate	11.24	149	7386	N.D.	
83) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.	
84) Benzo(a)anthracene	11.87	228	1789	N.D.	
85) Bis(2-ethylhexyl)phthalate	11.79	149	6259	N.D.	
86) Chrysene	11.87	228	1789	N.D.	
87) Di-n-octyl phthalate	0.00	149	0	N.D.	
88) 2,3,7,8-TCDD	0.00	322	0	N.D.	
90) Benzo(b)fluoranthene	0.00	252	0	N.D.	
91) Benzo(k)fluoranthene	0.00	252	0	N.D.	
92) Benzo(a)pyrene	13.24	252	3271	N.D.	
93) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
94) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
95) Benzo(g,h,i)perylene	0.00	276	0	N.D.	
96) Total Cresol	0.00	TIC	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612007	Instrument:	JSVGCMS1
Matrix:	Water	Calibration Date:	11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
N-Nitrosodimethylamine	0.5621943	8.193294	2.633333	0.1963783			15	
Pyridine	1.040686	10.54051	2.655	0.3152727			15	
Phenol	1.483651	8.038196	4.49	0.1988276			CCC (30)	
Bis(2-chloroethyl)ether	1.113659	7.325752	4.556667	0.1139776			15	
2-Chlorophenol	1.347204	6.467657	4.633333	0.1110654			15	
1,3-Dichlorobenzene	1.650943	6.138832	4.766667	0.1073817			15	
1,4-Dichlorobenzene	1.672139	6.160618	4.83	7.874393E-03			CCC (30)	
Benzyl alcohol	0.6996772	7.828096	4.928333	0.1530624			15	
1,2-Dichlorobenzene	1.580958	6.136074	4.97	1.841074E-02			15	
2-Methylphenol	0.9987735	8.028501	5.025	0.1077882			15	
Bis(2-chloroisopropyl)ether	1.273852	2.396582	5.04	1.126358E-02			15	
3 & 4-Methylphenol	1.227253	13.77085	5.165	0.1066847			15	
N-Nitroso-di-n-propylamine	0.7791327	5.934358	5.165	0.1066847			SPCC (0.05)	
Hexachloroethane	0.5979318	7.288353	5.28	1.458778E-02			15	
Nitrobenzene	0.3447905	5.058405	5.343333	9.768688E-02			15	
Isophorone	0.637638	4.705682	5.558333	0.1350731			15	
2-Nitrophenol	0.2120211	10.70834	5.64	1.271817E-02			CCC (30)	
2,4-Dimethylphenol	0.3165763	10.84362	5.665	9.541788E-02			15	
Bis(2-chloroethoxy)methane	0.3846464	6.85909	5.745	9.546621E-02			15	
Benzoic acid	0.1635287	33.05464	5.776667	0.5760865		0.9993511	0.99	
2,4-Dichlorophenol	0.3590291	12.98021	5.873333	8.704164E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.458506	7.846046	5.95	2.172452E-02			15	
Naphthalene	1.196628	9.127504	6.033333	8.235539E-02			15	
4-Chloroaniline	0.4155317	4.96787	6.123333	8.439695E-02			15	
Hexachlorobutadiene	0.227538	6.250511	6.14	2.432736E-02			CCC (30)	
4-Chloro-3-methylphenol	0.3049334	8.90665	6.541667	6.167171E-02			CCC (30)	
2-Methylnaphthalene	0.8038685	9.152093	6.701667	5.768975E-02			15	
1-Methylnaphthalene	0.7233615	8.772933	6.803333	7.451198E-02			15	
Hexachlorocyclopentadiene	0.1044687	43.19495	6.85	2.203062E-02		0.9975833	SPCC (0.05)	
2,4,6-Trichlorophenol	0.5046372	10.44058	6.98	1.920615E-02			CCC (30)	
2,4,5-Trichlorophenol	0.5118521	14.31777	7.02	9.988165E-03			15	
2-Chloronaphthalene	1.308326	10.31183	7.186667	7.386857E-02			15	

Software Version: 4.1<1L22>
Sample Name : B610359-01 Time : 12/19/06 11:40 AM
Sample Number: 9 Study : 8081 L
Operator : jbh

Instrument : JSVGCECD2 Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 4207271739 Data Acquisition Time: 12/8/06 01:49 PM
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 4.1660 pts/sec

Raw Data File : C:\TC4\HP6890\9LBA009A.RAW
Result File : C:\TC4\HP6890\9LBA009A.RST
Inst Method : C:\TC4\HP6890\608-2 from C:\TC4\HP6890\9LBA009A.RST
Proc Method : C:\TC4\HP6890\8081A9L1 from C:\TC4\HP6890\9LBA009A.RST
Calib Method : C:\TC4\HP6890\8081A9L1 from C:\TC4\HP6890\9LBA009A.RST
Sequence File : C:\TC4\METHODS\9LB.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

manually adjusted baseline JBH 12/19/06

Environmental Conservation Laboratories

PRIMARY COLUMN (DETECTOR A) STX-Clpesticide 30M .32id .50DF
EPA 8081 Analysis Curve 0.005mg/L --> 0.2mg/L (8081a911 on 12/01/06)
1 ppm TCMX(surr) and DBC(surr)
1 ppm CVS / LCS Injection volume = 1.0 ul

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
51	6.563	2,4,5,6-TCMX	3439567.28	0.0749	0.0749
67	7.717	ALPHA-BHC	1260031.92	~~0.0170~~ FT/LL	0.0170
75	8.326	GAMMA-BHC (LINDANE)	48115.70	0.0007	0.0007
80	8.549	BETA-BHC	225136.38	0.0097	0.0097
85	8.861	DELTA-BHC	2109051.90	0.0423	0.0423
91	9.213	HEPTACHLOR	273657.97	~~0.0044~~ FT/LL	0.0044
98	9.660	ALDRIN	22071828.48	~~0.3496~~	~~0.3496~~ 0.0246 Bside
106	10.216	ISODRIN	1110650.53	~~0.0234~~	0.0234
112	10.685	HEPTACHLOR EPOXIDE	580818.35	~~0.0106~~	0.0106
115	10.930	chlordane gamma	81148.59	~~0.0014~~ FT/LL	~~0.0014~~
117	11.061	chlordane alpha	1463624.99	0.0267	~~0.0267~~ 0.019 Bside JBH 1/1-/07
120	11.202	4,4'-DDE	170831.18	0.0033	0.0033
122	11.294	ENDOSULFAN I	524196.37	~~0.0100~~	0.0100
126	11.665	DIELDRIN	356075.63	~~0.0068~~ FT/LL	0.0068
130	11.950	ENDRIN	1766967.72	~~0.0363~~	0.0363
132	12.097	4,4'-DDD	274356.18	0.0071	0.0071
136	12.350	ENDOSULFAN II	372994.29	~~0.0085~~ FT/LL	0.0085
139	12.486	4,4'-DDT	223398.95	~~0.0063~~	0.0063
145	12.991	ENDRIN ALDEHYDE	582691.45	~~0.0193~~	0.0193

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
150	13.250	METHOXYCHLOR	720129.09	~~0.0405~~	0.0405
153	13.388	mirex	253501.06	~~0.0144~~	0.0144
157	13.563	Endosulfan Sulfate	150448.26	~~0.0045~~	0.0045
162	13.843	DBC	6015006.36	0.1621	0.1621
164	13.964	ENDRIN KETONE	20745759.52	~~0.4721~~	~~0.4721~~
0	30.100	Chlordane (Total)	0.00	0.0000	0.0000
0	30.150	Chlordane (Tech)	0.00	0.0000	0.0000
0	30.200	Toxaphene	0.00	0.0000	0.0000
0	30.300	PCB-1016/1242	0.00	0.0000	0.0000
0	30.400	PCB-1221	0.00	0.0000	0.0000
0	30.500	PCB-1232	0.00	0.0000	0.0000
0	30.650	PCB-1248	0.00	0.0000	0.0000
0	30.700	PCB-1254	0.00	0.0000	0.0000
0	30.863	PCB-1260	0.00	0.0000	0.0000
			64819988.14	1.3521	1.3521

Report stored in ASCII file: C:\TC4\HP6890\9LBA009A.TX0

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612019
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/01/06 00:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.398562E+07	14.44351	7.757286	2.111835E-02			20	
gamma-BHC	6.491869E+07	12.46762	8.36	1.617719E-02			20	
beta-BHC	2.324562E+07	4.8318	8.557429	1.876516E-02			20	
delta-BHC	4.983083E+07	20.2115	8.861	1.447878E-02			20	*
Heptachlor	6.182335E+07	8.606743	9.196571	1.586097E-02			20	
Aldrin	6.313387E+07	10.45479	9.697286	1.233442E-02			20	
Isodrin	4.750099E+07	7.850342	10.24014	5.946941E-03			20	
Heptachlor epoxide	5.464768E+07	7.341674	10.68829	9.017128E-03			20	
Chlordane-gamma	5.693179E+07	9.61668	10.88429	0.011925			20	
Chlordane-alpha	5.472262E+07	8.426971	11.08657	1.488911E-02			20	
4,4'-DDE	5.1587E+07	10.39948	11.22971	1.642813E-02			20	
Endosulfan I	5.229753E+07	8.28437	11.289	7.631258E-03			20	
Dieldrin	5.202288E+07	9.090226	11.65243	1.033635E-02			20	
Endrin	4.866294E+07	9.344774	11.99529	5.869738E-03			20	
4,4'-DDD	3.851972E+07	13.00134	12.12643	1.716756E-02			20	
Endosulfan II	4.404929E+07	7.332252	12.33386	6.106009E-03			20	
4,4'-DDT	3.568835E+07	18.28237	12.52529	0.0130767			20	
Endrin aldehyde	3.019672E+07	4.666749	12.95286	7.993616E-03			20	
Methoxychlor	1.779768E+07	8.10226	13.24029	2.474817E-03			20	
Mirex	3.528171E+07	8.716491	13.403	1.647032E-02			20	
Endosulfan sulfate	3.317137E+07	6.262459	13.58729	1.513565E-02			20	
Endrin ketone	4.394762E+07	8.092502	13.981	8.894222E-03			20	
alpha-BHC [2C]	7.828165E+07	13.20581	7.588857	3.194446E-02			20	
gamma-BHC [2C]	6.871985E+07	11.39113	8.25	0.0360012			20	
beta-BHC [2C]	2.514164E+07	5.174674	8.446286	2.322355E-02			20	
delta-BHC [2C]	5.308931E+07	18.09423	8.939286	2.310905E-02			20	
Heptachlor [2C]	6.610146E+07	8.864959	8.988714	2.701861E-02			20	
Aldrin [2C]	6.765244E+07	9.460862	9.507857	1.561978E-02			20	
Isodrin [2C]	5.166997E+07	7.661482	10.13629	2.364944E-02			20	
Heptachlor epoxide [2C]	5.916389E+07	7.48889	10.43157	1.847776E-02			20	
Chlordane-gamma [2C]	6.192916E+07	8.452779	10.72443	1.927131E-02			20	
Chlordane-alpha [2C]	5.890229E+07	7.336484	10.94843	1.721687E-02			20	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**FEBRUARY 28, 2007**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
NAS JACKSONVILLE – CTO 047
SDG – BR006-010

SAMPLES: 12/Aqueous/

JAX47-MW10S-113006	JAX47-937MW2S-113006
JAX47-937MW6D-113006	JAX47-DU01-120106
JAX47-MW13D-120106	JAX47-MW13S-120106
JAX47-MW18D-113006	JAX47-MW18S-113006
JAX47-MW20S-120106	JAX47-MW27S-120106
JAX47-R01-113006	USGS-SSMW45-113006

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-010, consists of twelve aqueous environmental samples. One field duplicate pair (JAX47-DU01-120106 / JAX47-MW13S-120106) is included in this SDG.

All samples were analyzed for total arsenic and two samples were also analyzed for dissolved arsenic. The samples were collected by Tetra Tech NUS on November 30 - December 1, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using SW-846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Result
* • Matrix Spike/Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Field Duplicate Precison
• Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Notes

Originally, the laboratory did not report the linear calibration range of the inductively coupled plasma (ICP) atomic emission spectrometer (AES). After being contacted by the data reviewer, the laboratory provided the linear calibration range of the instrument.

The non-detected arsenic results were not reported down to both the method detection limit (MDL) and method reporting limit (MRL) on Form I reports as requested in the laboratory scope-of-work and required by the state of Florida. The non-detected results were reported down to the MRL on the Form I reports. The laboratory correctly reported the non-detected arsenic results down to the MDL in the electronic data deliverable (EDD).

The laboratory used "937" in the identification of sample JAX47-MW10S-113006. The chain-of-custody record did not include this designation so it was removed from the sample Form I reports and the database.

The arsenic result on the laboratory method blank form was not reported down to the MDL.

The laboratory only reported to one significant figure for all non-detected results.

Executive Summary

Laboratory Performance: The laboratory incorrectly reported detection limits on several forms.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", July 2002, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-937MW2S-113006	nsample	JAX47-937MW6D-113006	nsample	JAX47-DU01-120106
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	12/1/2006
lab_id	B610359-01	lab_id	B610359-02	lab_id	B610359-10
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	JAX47-MW13S-120106

Parameter	Result	Val Qual	Qual Code
ARSENIC	8400		

Parameter	Result	Val Qual	Qual Code
ARSENIC	40.3		

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW10S-113006	nsample	JAX47-MW13D-120106	nsample	JAX47-MW13S-120106
samp_date	11/30/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610359-03	lab_id	B610359-11	lab_id	B610359-12
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW18D-113006	nsample	JAX47-MW18S-113006	nsample	JAX47-MW20S-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-04	lab_id	B610359-05	lab_id	B610359-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	10.2		

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW27S-113006	nsample	JAX47-R01-113006	nsample	USGS-SSMW45-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-07	lab_id	B610359-08	lab_id	B610359-09
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-010 MEDIA: WATER DATA FRACTION: MF

nsample	JAX47-937MW2S-113006	nsample	JAX47-937MW6D-113006
samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610359-01	lab_id	B610359-02
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	8400		

Parameter	Result	Val Qual	Qual Code
ARSENIC	10		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-9X/MW10S-113006

2-27-07 JAI

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-03 | File ID: 121406a-018

Sampled: 11/30/06 16:15 | Prepared: 12/05/06 06:12 | Analyzed: 12/14/06 11:27

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L05002 | Sequence: BA00096 | Calibration: 0612009 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-937MW2S-113006

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610359-01
File ID: 121406a-014
Sampled: 11/30/06 16:10
Prepared: 12/05/06 06:12
Analyzed: 12/14/06 11:00
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L05002
Sequence: BA00096
Calibration: 0612009
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	8400	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-937MW6D-113006

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610359-02
File ID: 121406a-016
Sampled: 11/30/06 14:50
Prepared: 12/05/06 06:12
Analyzed: 12/14/06 11:14
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L05002
Sequence: BA00096
Calibration: 0612009
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	40.3	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-DU01-120106

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610359-10
File ID: 121406a-028
Sampled: 12/01/06 00:00
Prepared: 12/05/06 06:12
Analyzed: 12/14/06 12:36
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L05002
Sequence: BA00096
Calibration: 0612009
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW13D-120106

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-11 | File ID: 121406a-029

Sampled: 12/01/06 10:45 | Prepared: 12/05/06 06:12 | Analyzed: 12/14/06 12:43

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L05002 | Sequence: BA00096 | Calibration: 0612009 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW13S-120106

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-12 | File ID: 121406a-030

Sampled: 12/01/06 09:30 | Prepared: 12/05/06 06:12 | Analyzed: 12/14/06 12:50

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L05002 | Sequence: BA00096 | Calibration: 0612009 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW18S-113006

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-05 | File ID: 121406a-023

Sampled: 11/30/06 12:07 | Prepared: 12/05/06 06:12 | Analyzed: 12/14/06 12:01

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L05002 | Sequence: BA00096 | Calibration: 0612009 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW18D-113006

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-04 | File ID: 121406a-019

Sampled: 11/30/06 10:10 | Prepared: 12/05/06 06:12 | Analyzed: 12/14/06 11:34

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L05002 | Sequence: BA00096 | Calibration: 0612009 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.2	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW20S-113006

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610359-06
File ID: 121406a-024
Sampled: 11/30/06 13:45
Prepared: 12/05/06 06:12
Analyzed: 12/14/06 12:08
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L05002
Sequence: BA00096
Calibration: 0612009
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW27S-113006

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-07 | File ID: 121406a-025

Sampled: 11/30/06 11:15 | Prepared: 12/05/06 06:12 | Analyzed: 12/14/06 12:15

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L05002 | Sequence: BA00096 | Calibration: 0612009 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-R01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610359-08
File ID: 121406a-026
Sampled: 11/30/06 15:01
Prepared: 12/05/06 06:12
Analyzed: 12/14/06 12:23
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L05002
Sequence: BA00096
Calibration: 0612009
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

USGS-SSMW45-113006

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-09 | File ID: 121406a-027

Sampled: 11/30/06 15:10 | Prepared: 12/05/06 06:12 | Analyzed: 12/14/06 12:29

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L05002 | Sequence: BA00096 | Calibration: 0612009 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-937MW2S-113006

Laboratory: ENCO Jacksonville | SDG: BR006-010

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610359-01 | File ID: 121406a-015

Sampled: 11/30/06 16:10 | Prepared: 12/05/06 06:12 | Analyzed: 12/14/06 11:06

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L05002 | Sequence: BA00096 | Calibration: 0612009 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	8400	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-937MW6D-113006

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610359-02
File ID: 121406a-017
Sampled: 11/30/06 14:50
Prepared: 12/05/06 06:12
Analyzed: 12/14/06 11:20
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L05002
Sequence: BA00096
Calibration: 0612009
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	10	1	J	EPA 6010B

APPENDIX C
SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-010

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/5/2006	12/14/2006	4	9	13
M	UG/L	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/5/2006	12/14/2006	4	9	13
M	UG/L	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/5/2006	12/14/2006	4	9	13
M	UG/L	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
M	UG/L	JAX47-R01-113006	B610359-08	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
MF	UG/L	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
MF	UG/L	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/5/2006	12/14/2006	5	9	14
OS	%	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-937MW2S-113006	B610359-01RE1	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	%	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	%	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	%	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-R01-113006	B610359-08	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	%	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-MW13S-120106	B610359-12RE1	NM	12/1/2006	12/7/2006	12/13/2006	6	6	12
OS	UG/L	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	UG/L	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-937MW2S-113006	B610359-01RE1	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OS	UG/L	JAX47-DU01-120106	B610359-10RE1	NM	12/1/2006	12/7/2006	1/5/2007	6	29	35
OS	UG/L	JAX47-R01-113006	B610359-08	NM	11/30/2006	12/7/2006	12/8/2006	7	1	8
OS	UG/L	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/7/2006	12/8/2006	6	1	7
OV	%	JAX47-937MW2S-113006	B610359-01RE1	NM	11/30/2006	12/6/2006	12/15/2006	6	9	15
OV	%	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	Trip Blank #2	B610359-13	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	%	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	%	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	%	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	%	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	UG/L	JAX47-937MW2S-113006	B610359-01	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-MW20S-113006	B610359-06	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-937MW10S-11300	B610359-03	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-937MW2S-113006	B610359-01RE1	NM	11/30/2006	12/6/2006	12/15/2006	6	9	15
OV	UG/L	JAX47-937MW6D-113006	B610359-02	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-DU01-120106	B610359-10	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	UG/L	JAX47-MW13D-120106	B610359-11	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	UG/L	JAX47-MW13S-120106	B610359-12	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	UG/L	JAX47-MW18S-113006	B610359-05	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-MW27S-113006	B610359-07	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	Trip Blank #2	B610359-13	NM	12/1/2006	12/6/2006	12/7/2006	5	1	6
OV	UG/L	USGS-SSMW45-113006	B610359-09	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7
OV	UG/L	JAX47-MW18D-113006	B610359-04	NM	11/30/2006	12/6/2006	12/7/2006	6	1	7

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No: 112G00497	Facility: JACKSONVILLE NAS	Project Manager: Mark Peterson	Carrier: Hand Deliver	Laboratory Name: Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216
Task No: CTO 0047	Turn Around Time: Standard	Field Ops Leader: Charles Metz	Carrier/Waybill No.	Point of Contact: Lab Contact 904-296-3007

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-010

Lab Sample ID	Client Sample ID
B610359-01	JAX47-937MW2S-113006
B610359-02	JAX47-937MW6D-113006
B610359-03	JAX47-937MW10S-113006
B610359-04	JAX47-MW18D-113006
B610359-05	JAX47-MW18S-113006
B610359-06	JAX47-MW20S-113006
B610359-07	JAX47-MW27S-113006
B610359-08	JAX47-R01-113006
B610359-09	JAX47-USGS-SSMW45-113006
B610359-10	JAX47-DU01-120106
B610359-11	JAX47-MW13D-120106
B610359-12	JAX47-MW13S-120106
B610359-13	Trip Blank #2

Volatiles

Method: The samples were analyzed by USEPA Method 8260B (VOA vial field sampling followed by purge and trap then capillary column GC/MS). Water samples were received into the laboratory in satisfactory condition.

Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, one of the Matrix Spike and Matrix Spike Duplicate was performed on an alternative sample not related to this project.
- JAX47-937MW6D-113006 was submitted for analysis but was not on the chain of custody. The sample was analyzed per client request.
- JAX47-937MW2S-113006 was analyzed within the method specified hold time. Cis-1,2 dichloroethene had a result that was above the high point of the calibration curve. The compound was re-analyzed at dilution, however was outside of the method specified hold time.
- The Matrix Spike and Matrix Spike Duplicate had several compounds that were outside the DoD QSM control limits. Data was accepted based on an acceptable Laboratory Control Standard and precision data.
- The Laboratory Control Standard for dichlorodifluoromethane and chloromethane exceeded the DoD QSM upper control limits. Results for these compounds should be considered bias high. Samples associated with this laboratory control standard did not have positive results for these compounds.
- Several compounds did not meet the specified control limits for the Continuing Calibration Check Standard. Data was accepted on criteria that all CCC and SPCC compounds passed.

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Water samples were received into the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

Semi-volatile

Method: The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8270c. Water samples were received into the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, the Matrix Spike and Matrix Spike Duplicate was performed on an alternative sample not related to this project.
- The analysis of the Laboratory Control Standard, Matrix Spike and Matrix Spike Duplicate had positive results that exceeded the DoD QSM established control limits. The corresponding samples did not show positive results for those compounds, therefore the data was accepted.
- The surrogate 2-Fluorobiphenyl for sample ID JAX-MW13D-120106 was outside of the DoD QSM established control limits. The remaining surrogates were within the established control limits.
- Several compounds did not meet the specified control limits for the Continuing Calibration Check Standard. Data was accepted on criteria that all CCC and SPCC compounds passed.

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081A. Waters were received into the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, Matrix Spike and Matrix Spike Duplicate was performed on an alternative sample not related to this project.
- Laboratory Control Standard for Endrin Ketone on the secondary column was outside the DoD QSM established control limits however it is within the marginal exceedance limit.
- Matrix Spike was outside the DoD QSM established limits for Endrin Ketone but was in the marginal exceedance limit.
- JAX47-937MW2S-113 for the surrogate DBC was outside the DoD QSM established control limits due to sample matrix.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:
Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.13 13:03:48 -05'00'

Christina M. Tompkins

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-937MW2S-113006	B610359-01
JAX47-937MW6D-113006	B610359-02

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.13 13:04:56 -05'00'

Name: Christina Tompkins

Date: 01/04/07

Title: Project Manager

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612009
Control Limt: +/- 10.00%
Sequence: BA00096

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00096-ICV1	Arsenic (dissolved)	0.500	0.514	103	mg/L	EPA 6010B
BA00096-CCV1	Arsenic (dissolved)	0.500	0.499	100	mg/L	EPA 6010B
BA00096-CCV2	Arsenic (dissolved)	0.500	0.494	99	mg/L	EPA 6010B

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612009
Sequence: BA00096

Lab Sample ID	Analyte	True	Found	%R	Units
BA00096-IFA1	Arsenic (dissolved)	1.00	1.00	100	mg/L
	Arsenic (dissolved)	1.00	1.00	100	mg/L

* Values outside of QC limits

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00095
Calibration: 0612009

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00095-CCB1	Arsenic (dissolved)	-0.00406	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00096
Calibration: 0612009

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00096-ICB1	Arsenic (dissolved)	0.00	0.01	mg/L		EPA 6010B
6L05002-BLK1	Arsenic (dissolved)	-1.09	10	ug/L		EPA 6010B
BA00096-CCB1	Arsenic (dissolved)	-0.00251	0.01	mg/L		EPA 6010B
BA00096-CCB2	Arsenic (dissolved)	-0.00162	0.01	mg/L		EPA 6010B

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L05002-BLK1	File ID:	121406a-010
Prepared:	12/05/06 06:12	Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL
Analyzed:	12/14/06 10:33	Instrument:	JMICP1		
Batch:	6L05002	Sequence:	BA00096	Calibration:	0612009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	10	U

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX47-937MW10S-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L05002	Laboratory ID:	6L05002-MS1
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

Source Sample Name: JAX47-937MW10S-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Arsenic (dissolved)	1000	ND	937	94	80-120

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic (dissolved)	1000	949	95	1	12	80-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L05002	Laboratory ID:	6L05002-BS1
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Arsenic (dissolved)	1000	1000	100	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-010

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic (dissolved)	4	10	ug/L

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L05002 Batch Matrix: Water Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L05002-BLK1	121406a-010	12/05/06 06:12	
LCS	6L05002-BS1	121406a-011	12/05/06 06:12	
JAX47-937MW10S-113006	6L05002-MS1	121406a-012	12/05/06 06:12	
JAX47-937MW10S-113006	6L05002-MSD1	121406a-013	12/05/06 06:12	
JAX47-937MW2S-113006	B610359-01	121406a-015	12/05/06 06:12	Filtered
JAX47-937MW6D-113006	B610359-02	121406a-017	12/05/06 06:12	Filtered

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00095	Instrument:	JMICP1
Matrix:	Water	Calibration:	0612009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	BA00095-CAL1	121306a-002	12/13/06 09:48
Low Cal Check	BA00095-LCV1	121306a-004	12/13/06 10:09
Secondary Cal Check	BA00095-SCV1	121306a-005	12/13/06 10:16
Calibration Blank	BA00095-CCB1	121306a-021	12/13/06 12:07

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00096	Instrument:	JMICP1
Matrix:	Water	Calibration:	0612009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00096-ICB1	121406a-001	12/14/06 09:28
Cal Standard	BA00096-CAL1	121406a-002	12/14/06 09:34
Instrument Blank	BA00096-IBL1	121406a-003	12/14/06 09:45
Low Cal Check	BA00096-LCV1	121406a-004	12/14/06 09:52
Secondary Cal Check	BA00096-SCV1	121406a-005	12/14/06 09:59
Initial Cal Check	BA00096-ICV1	121406a-006	12/14/06 10:06
Interference Check A	BA00096-IFA1	121406a-008	12/14/06 10:19
Blank	6L05002-BLK1	121406a-010	12/14/06 10:33
LCS	6L05002-BS1	121406a-011	12/14/06 10:40
JAX47-937MW10S-113006	6L05002-MS1	121406a-012	12/14/06 10:47
JAX47-937MW10S-113006	6L05002-MSD1	121406a-013	12/14/06 10:54
JAX47-937MW2S-113006	B610359-01	121406a-015	12/14/06 11:06
JAX47-937MW6D-113006	B610359-02	121406a-017	12/14/06 11:20
Calibration Blank	BA00096-CCB1	121406a-021	12/14/06 11:48
Calibration Check	BA00096-CCV1	121406a-022	12/14/06 11:54
Calibration Blank	BA00096-CCB2	121406a-034	12/14/06 13:19
Calibration Check	BA00096-CCV2	121406a-035	12/14/06 13:26

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-010

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-937MW2S-113006	B610359-01
JAX47-937MW6D-113006	B610359-02
JAX47-937MW10S-113006	B610359-03
JAX47-MW18D-113006	B610359-04
JAX47-MW18S-113006	B610359-05
JAX47-MW20S-113006	B610359-06
JAX47-MW27S-113006	B610359-07
JAX47-R01-113006	B610359-08
USGS-SSMW45-113006	B610359-09
JAX47-DU01-120106	B610359-10
JAX47-MW13D-120106	B610359-11
JAX47-MW13S-120106	B610359-12

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.13 13:05:13 -05'00'

Name: Christina Tompkins

Date: 01/04/07

Title: Project Manager

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0612009
Control Limt: +/- 10.00%
Sequence: BA00096

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00096-ICV1	Arsenic	0.500	0.514	103	mg/L	EPA 6010B
BA00096-CCV1	Arsenic	0.500	0.499	100	mg/L	EPA 6010B
BA00096-CCV2	Arsenic	0.500	0.494	99	mg/L	EPA 6010B

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-010

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Instrument ID: JMICP1

Calibration: 0612009

Sequence: BA00096

Lab Sample ID	Analyte	True	Found	%R	Units
BA00096-IFA1	Arsenic	1.00	1.00	100	mg/L
	Arsenic	1.00	1.00	100	mg/L

* Values outside of QC limits

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-010
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00096
Calibration: 0612009

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00096-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
6L05002-BLK1	Arsenic	-1.09	10.0	ug/L		EPA 6010B
BA00096-CCB1	Arsenic	-0.00251	0.01	mg/L		EPA 6010B
BA00096-CCB2	Arsenic	-0.00162	0.01	mg/L		EPA 6010B

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville		SDG:	BR006-010	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L05002-BLK1	File ID:	121406a-010
Prepared:	12/05/06 06:12	Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL
Analyzed:	12/14/06 10:33	Instrument:	JMICP1		
Batch:	6L05002	Sequence:	BA00096	Calibration:	0612009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	10.0	U

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

JAX47-937MW10S-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L05002	Laboratory ID:	6L05002-MS1
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

Source Sample Name: JAX47-937MW10S-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Arsenic	1000	ND	937	94	80-120

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	1000	949	95	1	12	80-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L05002	Laboratory ID:	6L05002-BS1
Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Arsenic	1000	1000	100	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-010

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	4	10.0	ug/L

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-010

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L05002 Batch Matrix: Water Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L05002-BLK1	121406a-010	12/05/06 06:12	
LCS	6L05002-BS1	121406a-011	12/05/06 06:12	
JAX47-937MW10S-113006	6L05002-MS1	121406a-012	12/05/06 06:12	
JAX47-937MW10S-113006	6L05002-MSD1	121406a-013	12/05/06 06:12	
JAX47-937MW2S-113006	B610359-01	121406a-014	12/05/06 06:12	
JAX47-937MW6D-113006	B610359-02	121406a-016	12/05/06 06:12	
JAX47-937MW10S-113006	B610359-03	121406a-018	12/05/06 06:12	
JAX47-MW18D-113006	B610359-04	121406a-019	12/05/06 06:12	
JAX47-MW18S-113006	B610359-05	121406a-023	12/05/06 06:12	
JAX47-MW20S-113006	B610359-06	121406a-024	12/05/06 06:12	
JAX47-MW27S-113006	B610359-07	121406a-025	12/05/06 06:12	
JAX47-R01-113006	B610359-08	121406a-026	12/05/06 06:12	
USGS-SSMW45-113006	B610359-09	121406a-027	12/05/06 06:12	
JAX47-DU01-120106	B610359-10	121406a-028	12/05/06 06:12	
JAX47-MW13D-120106	B610359-11	121406a-029	12/05/06 06:12	
JAX47-MW13S-120106	B610359-12	121406a-030	12/05/06 06:12	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-010
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00096	Instrument:	JMICP1
Matrix:	Water	Calibration:	0612009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00096-ICB1	121406a-001	12/14/06 09:28
Cal Standard	BA00096-CAL1	121406a-002	12/14/06 09:34
Instrument Blank	BA00096-IBL1	121406a-003	12/14/06 09:45
Low Cal Check	BA00096-LCV1	121406a-004	12/14/06 09:52
Secondary Cal Check	BA00096-SCV1	121406a-005	12/14/06 09:59
Initial Cal Check	BA00096-ICV1	121406a-006	12/14/06 10:06
Interference Check A	BA00096-IFA1	121406a-008	12/14/06 10:19
Blank	6L05002-BLK1	121406a-010	12/14/06 10:33
LCS	6L05002-BS1	121406a-011	12/14/06 10:40
JAX47-937MW10S-113006	6L05002-MS1	121406a-012	12/14/06 10:47
JAX47-937MW10S-113006	6L05002-MSD1	121406a-013	12/14/06 10:54
JAX47-937MW2S-113006	B610359-01	121406a-014	12/14/06 11:00
JAX47-937MW6D-113006	B610359-02	121406a-016	12/14/06 11:14
JAX47-937MW10S-113006	B610359-03	121406a-018	12/14/06 11:27
JAX47-MW18D-113006	B610359-04	121406a-019	12/14/06 11:34
Calibration Blank	BA00096-CCB1	121406a-021	12/14/06 11:48
Calibration Check	BA00096-CCV1	121406a-022	12/14/06 11:54
JAX47-MW18S-113006	B610359-05	121406a-023	12/14/06 12:01
JAX47-MW20S-113006	B610359-06	121406a-024	12/14/06 12:08
JAX47-MW27S-113006	B610359-07	121406a-025	12/14/06 12:15
JAX47-R01-113006	B610359-08	121406a-026	12/14/06 12:23
USGS-SSMW45-113006	B610359-09	121406a-027	12/14/06 12:29
JAX47-DU01-120106	B610359-10	121406a-028	12/14/06 12:36
JAX47-MW13D-120106	B610359-11	121406a-029	12/14/06 12:43
JAX47-MW13S-120106	B610359-12	121406a-030	12/14/06 12:50
Calibration Blank	BA00096-CCB2	121406a-034	12/14/06 13:19
Calibration Check	BA00096-CCV2	121406a-035	12/14/06 13:26

Current ICP Standard Concentrations

Units = mg/L = ppm

Analyte	Curve	LDR	QCS LOW	Spikes	CVS	QCS 1	ICS	Y int
Ag 328.06	1.0	5.0	0.010	0.1	0.50	0.1	1.0	5.0
Ag 338.28	1.0	5.0	0.010	0.1	0.50	0.1	1.0	5.0
Al 308.215	10.0	100.0	0.100	10.0	5.00	10.0	500.0	5.0
As 188.97	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
B 208.959	5.0	500.0	0.050	1.0	2.50	1.0	1.0	5.0
Ba 233.52	1.0	20.0	0.010	1.0	0.50	1.0	1.0	5.0
Be 313.10	1.0	2.0	0.001	0.5	0.05	0.5	1.0	5.0
Ca 317.93	10.0	150.0	0.100	10.0	5.00	10.0	500.0	5.0
Ca Radial	10.0	150.0	0.100	10.0	5.00	10.0	500.0	5.0
Cd 226.50	1.0	50.0	0.001	0.5	0.05	0.5	1.0	5.0
Co 228.61	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
Cr 267.716	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
Cu 324.75	1.0	100.0	0.010	0.5	0.50	0.5	1.0	5.0
Fe 273.95	10.0	150.0	0.050	10.0	2.50	10.0	200.0	5.0
Fe Radial	10.0	150.0	0.050	10.0	2.50	10.0	200.0	5.0
K 766.491	10.0	200.0	0.500	50.0	25.00	50.0	10.0	5.0
Li 670.781	1.0	20.0	0.010	0.5	0.50	0.5	1.0	5.0
Mg 279.07	10.0	100.0	0.100	10.0	5.00	10.0	500.0	5.0
Mn 257.61	1.0	40.0	0.010	0.5	0.50	0.5	1.0	5.0
Mo 202.03	1.0	100.0	0.010	0.5	0.50	0.5	1.0	5.0
Na 589.59	10.0	100.0	0.500	50.0	25.00	50.0	1.0	5.0
Ni 231.604	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
Pb 220.35	1.0	150.0	0.010	1.0	0.50	1.0	1.0	5.0
Sb 206.83	1.0	5.0	0.010	0.5	0.50	0.5	1.0	5.0
Se 196.026	1.0	100.0	0.010	1.0	0.50	1.0	1.0	5.0
Sn 189.93	1.0	20.0	0.010	1.0	0.50	1.0	1.0	5.0
Sr 421.539	1.0	10.0	0.010	1.0	0.50	1.0	1.0	5.0
Ti 337.280	1.0	80.0	0.005	0.5	0.25	0.5	1.0	5.0
Tl 190.800	1.0	100.0	0.010	0.5	0.50	0.5	1.0	5.0
V 292.402	1.0	100.0	0.010	0.5	0.50	0.5	1.0	5.0
Zn 206.19	1.0	20.0	0.010	1.0	0.50	1.0	1.0	5.0

Kraus, Matthew -- NUS

From: Chris Tompkins [ctompkins@encolabs.com]
Sent: Monday, February 26, 2007 3:18 PM
To: Kraus, Matthew -- NUS
Cc: smartin@encolabs.com; 'Lorraine Strong'
Subject: RE: Metals Limits (2).xls

Matt,

Correct, the arsenic is a one-point calibration with the 1 ppm. However, the Low Level Quality Control Standard, (QCS-low) is the amount of analyte in the solution equal to the MQL (Minimum Quantitative Limit) of that analyte with the acceptance criteria of +/- 20% and it is not part of the curve. The QCS –low is a standard to verify that the instrument is responding down to the reporting limit. This is a requirement by NELAC/DoD when using a one-point calibration.

The Linear Dynamic Range (LDR) is the concentration range over which the instrument response to an analyte linearity with the acceptance criteria of +/- 10%. This is also a NELAC/DoD requirement with a one-point curve and must be performed every six months.

The "E" qualifier is estimated concentration because the concentration was about the one-point calibration; however, the "E" should have not been reported if the concentration is below the LDR or above the QCS. Element's programmers are addressing this problem

Thanks,

Chris Tompkins
Project Manager
Environmental Conservation Laboratories
904-296-3007

From: Kraus, Matthew -- NUS [mailto:Matthew.Kraus@ttnus.com]
Sent: Friday, February 23, 2007 4:31 PM
To: Chris Tompkins
Subject: RE: Metals Limits (2).xls

Chris,

Arsenic is 1ppm in the curve column, 100ppm in the LDR column, and 0.010ppm in the QCS low column. I believe this means that the one point calibration was run off of a 1ppm arsenic standard and that the low point of the curve is 0.010ppm and the high point is 100ppm, correct?

What do the acrynomns LDR and QCS stand for?

What does your "E" qualifier mean for metals? I did not find it in the definitions section of the Sample Summary/Laboratory Chronicle for SDG: BR006-009.

Thanks,

Matt

From: Chris Tompkins [mailto:ctompkins@encolabs.com]
Sent: Friday, February 23, 2007 3:52 PM
To: Kraus, Matthew -- NUS
Subject: Metals Limits (2).xls

Matt,
Here is the form that we just talked about. Please let me know if you have any other questions.

Thanks,

Chris Tompkins
Project Manager
Environmental Conservation Laboratories
904-296-3007

SRV: JAx47-937MW25-113006 [As] = 8400 ug/L as reported by the laboratory.

Sn 189.933	55.0	0.0074	0.00086	mg/L	0.0074	0.00086	mg/L	11.63 %
Sr 421.539R	73,483.4	0.1021	0.00380	mg/L	0.1021	0.00380	mg/L	3.72 %
Ti 337.280	900.2	0.0010	0.00007	mg/L	0.0010	0.00007	mg/L	6.76 %
Tl 190.800	1.4	0.0025	0.00107	mg/L	0.0025	0.00107	mg/L	42.24 %
V 292.402	3,501.9	0.0108	0.00016	mg/L	0.0108	0.00016	mg/L	1.45 %
Zn 206.191	162.6	0.0023	0.00002	mg/L	0.0023	0.00002	mg/L	1.03 %

Mean Data

ID: f.b610359-01 **Seq. No.:** 15 **A/S Pos:** 29

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2006/12/14 11:05:24

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	224,560.9	101	0.1	%			%	0.10 %
Y361.105A	1,464,121.7	101	0.6	%			%	0.63 %
Ag 338.289	-12.3	-0.0001	0.00041	mg/L	-0.0001	0.00041	mg/L	413.21 %
Ag 328.068	-194.2	-0.0005	0.00019	mg/L	-0.0005	0.00019	mg/L	41.21 %
Al 308.215	231.7	0.112	0.0079	mg/L	0.112	0.0079	mg/L	7.07 %
As 188.979	23,553.7	8.401	0.0073	mg/L	8.401	0.0073	mg/L	0.09 %
Ba 233.527	18,412.8	0.0999	0.00035	mg/L	0.0999	0.00035	mg/L	0.35 %
Be 313.107	1,135.1	0.0001	0.00001	mg/L	0.0001	0.00001	mg/L	6.00 %
B 208.959	892.0	0.0545	0.00062	mg/L	0.0545	0.00062	mg/L	1.14 %
Ca 317.933	15,018,963.0	42.64	0.154	mg/L	42.64	0.154	mg/L	0.36 %
Ca Radial	1,566,133.1	43.21	1.369	mg/L	43.21	1.369	mg/L	3.17 %
Cd 226.502	195.7	0.0001	0.00009	mg/L	0.0001	0.00009	mg/L	134.37 %
Co 228.616	34.0	0.0005	0.00005	mg/L	0.0005	0.00005	mg/L	10.01 %
Cr 267.716	371.6	0.0019	0.00043	mg/L	0.0019	0.00043	mg/L	22.56 %
Cu 324.754	-40.7	-0.0001	0.00057	mg/L	-0.0001	0.00057	mg/L	509.95 %

$\frac{8.401\ mg}{L} \cdot \frac{1000\ ug}{1\ mg} = \frac{8401\ ug}{L}$

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MARK PETERSON** **DATE:** **MARCH 6, 2007**

FROM: **PRESTON SMITH** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- PEST**
CTO 047, NAS JACKSONVILLE
SDG BR006-011

SAMPLES: 4/SPLP

JAX47-SB100-01-113006 JAX47-SB105-01-113006
JAX47-SB106-01-113006 JAX47-SB107-01-113006

OVERVIEW

The sample set for CTO 047, NAS Jacksonville, SDG BR006-011 consists of four (4) environmental soil SPLP leachate samples. All above listed samples were analyzed as indicated above.

The samples were collected by TetraTech NUS on November 30, 2006 and analyzed by Environmental Conservation Laboratories, Inc. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8081 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• Initial and continuing calibration
*	• Blank results
*	• Surrogate spike recoveries
	• Blank Spike/Blank Spike Duplicate Results
*	• Matrix Spike/Matrix Spike Duplicate Results
*	• Detection Limits
*	• Compound Quantitation
*	• Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Pesticides

The laboratory reported down to Reporting Limits (RL) on all Form Is for all compounds instead of to Method Detection Limits (MDLs). However, MDLs were included in the database for all compounds and these limits were used for validation.

The dual column confirmation %D was greater than the 25% QC limit for at least one compound analyzed in all samples. The affected results were qualified as estimated (J) for this noncompliance.

Endosulfan II was reported as positive in sample JAX47-SB105-01-113006, but was not confirmed on the second column. The result was changed to nondetect and was estimated (UJ).

TO: **MARK PETERSON – PAGE 2**
DATE: **MARCH 6, 2007**

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several dual column confirmation noncompliances were noted. MDL versus RL issues on Form Is.
Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and Department of Defense document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM for guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Preston R Smith
Environmental Scientist

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB100-01-113006	nsample	JAX47-SB105-01-113006	nsample	JAX47-SB106-01-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610373-01	lab_id	B610373-03	lab_id	B610373-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	96.0	Pct_Solids	95.7	Pct_Solids	97.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.195		
4,4'-DDE	0.084		
4,4'-DDT	0.129	J	U
ALDRIN	0.002	U	
ALPHA-BHC	0.006	J	P
ALPHA-CHLORDANE	0.048	J	U
BETA-BHC	0.014	J	P
DELTA-BHC	0.013	J	P
DIELDRIN	0.058		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.003	J	PU
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.043	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.006	J	P
METHOXYCHLOR	0.043	J	PU
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.057		
4,4'-DDE	0.092		
4,4'-DDT	0.15		
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.112	J	U
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.178		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.003	UJ	Q
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.005	J	PU
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.087		
HEPTACHLOR	0.005	J	P
HEPTACHLOR EPOXIDE	0.134		
METHOXYCHLOR	0.036	J	PU
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.114	J	U
4,4'-DDE	0.188		
4,4'-DDT	0.503		
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.127		
BETA-BHC	0.004	J	PU
DELTA-BHC	0.001	U	
DIELDRIN	0.417		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.015	J	PU
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.006	J	P
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.093		
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.013	J	P
METHOXYCHLOR	0.007	J	PU
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB107-01-113006
samp_date	11/30/2006
lab_id	B610373-07
qc_type	NM
units	UG/L
Pct_Solids	98.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.051		
4,4'-DDE	0.046	J	P
4,4'-DDT	0.083		
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.103		
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.626		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.016	J	PU
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.01	J	P
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.05		
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.081		
METHOXYCHLOR	0.036	J	PU
TOXAPHENE	0.05	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-01	File ID:	9AGA019-0
Sampled:	11/30/06 15:35	Prepared:	12/19/06 18:00	Analyzed:	01/13/07 15:36
Solids:	95.95	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21005	Sequence:	BA00171	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.006	J
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.014	J
319-86-8	delta-BHC	1	0.013	J
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.006	J
NA	Chlordane-gamma	1	0.043	J
72-55-9	4,4'-DDE	1	0.084	
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.058	
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.195	
33213-65-9	Endosulfan II	1	0.003	JP J for U
50-29-3	4,4'-DDT	1	0.129	J for U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.043	JP J for U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.048	JP R for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.798	80	25 - 140	
DBC	1.00	0.812	81	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB105-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03	File ID:	9AGA020-0
Sampled:	11/30/06 16:10	Prepared:	12/19/06 18:00	Analyzed:	01/13/07 16:02
Solids:	95.66	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21005	Sequence:	BA00171	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.050	U	
58-89-9	gamma-BHC	1	0.050	U	
319-85-7	beta-BHC	1	0.050	U	
319-86-8	delta-BHC	1	0.050	U	
76-44-8	Heptachlor	1	0.005	J	
309-00-2	Aldrin	1	0.050	U	
1024-57-3	Heptachlor epoxide	1	0.134		
NA	Chlordane-gamma	1	0.087		
72-55-9	4,4'-DDE	1	0.092		
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.178		
72-20-8	Endrin	1	0.005	JP	R for U
72-54-8	4,4'-DDD	1	0.057		
33213-65-9	Endosulfan II	1	0.003	J	UJ for U
50-29-3	4,4'-DDT	1	0.150		
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.036	JP	J for U
1031-07-8	Endosulfan sulfate	1	0.050	U	
53494-70-5	Endrin ketone	1	0.050	U	
8001-35-2	Toxaphene	1	1.00	U	
NA	Chlordane-alpha	1	0.112	P	R for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.874	87	25 - 140	
DBC	1.00	0.835	84	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05	File ID:	9AGA021-0
Sampled:	11/30/06 16:24	Prepared:	12/19/06 18:00	Analyzed:	01/13/07 16:28
Solids:	97.06	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21005	Sequence:	BA00171	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.013	J
NA	Chlordane-gamma	1	0.093	
NA	Chlordane-alpha	1	0.127	
72-55-9	4,4'-DDE	1	0.188	
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.417	
72-20-8	Endrin	1	0.015	JP J for U
72-54-8	4,4'-DDD	1	0.114	J for U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.503	
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.007	JP J for U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.006	J
8001-35-2	Toxaphene	1	1.00	U
319-85-7	beta-BHC	1	0.004	JP R for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.824	82	25 - 140	
DBC	1.00	0.663	66	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB107-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-07	File ID:	9AGA022-0
Sampled:	11/30/06 16:38	Prepared:	12/19/06 18:00	Analyzed:	01/13/07 16:54
Solids:	98.00	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21005	Sequence:	BA00171	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.081	
NA	Chlordane-gamma	1	0.050	
NA	Chlordane-alpha	1	0.103	
72-55-9	4,4'-DDE	1	0.046	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.626	
72-20-8	Endrin	1	0.016	JP J for Y
72-54-8	4,4'-DDD	1	0.051	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.083	
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.036	JP R for Y
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.010	J
8001-35-2	Toxaphene	1	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.878	88	25 - 140	
DBC	1.00	0.819	82	30 - 135	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-011

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPM	MG/L	JAX47-SB107-01-113006	B610373-07	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB106-01-113006	B610373-05	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB105-01-113006	B610373-03	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB100-01-113006	B610373-01	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPP	%	JAX47-SB107-01-113006	B610373-07	NM	11/30/2006	12/19/2006	1/13/2007	19	25	44
SPLPP	%	JAX47-SB106-01-113006	B610373-05	NM	11/30/2006	12/19/2006	1/13/2007	19	25	44
SPLPP	%	JAX47-SB105-01-113006	B610373-03	NM	11/30/2006	12/19/2006	1/13/2007	19	25	44
SPLPP	%	JAX47-SB100-01-113006	B610373-01	NM	11/30/2006	12/19/2006	1/13/2007	19	25	44
SPLPP	UG/L	JAX47-SB107-01-113006	B610373-07	NM	11/30/2006	12/19/2006	1/13/2007	19	25	44
SPLPP	UG/L	JAX47-SB106-01-113006	B610373-05	NM	11/30/2006	12/19/2006	1/13/2007	19	25	44
SPLPP	UG/L	JAX47-SB105-01-113006	B610373-03	NM	11/30/2006	12/19/2006	1/13/2007	19	25	44
SPLPP	UG/L	JAX47-SB100-01-113006	B610373-01	NM	11/30/2006	12/19/2006	1/13/2007	19	25	44

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-011

Lab Sample ID	Client Sample ID
B610373-01	JAX47-SB100-01-113006
B610373-03	JAX47-SB105-01-113006
B610373-05	JAX47-SB106-01-113006
B610373-07	JAX47-SB107-01-113006

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins

Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 10:21:06 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact 904-286-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By: **Chuck Metz**	Date: 12/01/2006	Time: 15:50	Received By: **Hand Deliver**	Date: 12/01/2006	Time: 16:50
2. Relinquished By:	Date:	Time:	Received By:	Date: 12/1/06	Time: 16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

ENCO Jacksonville

SDG: BR006-011

CLASS: PEST

METHOD: EPA 8081A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-011

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB100-01-113006	B610373-01
JAX47-SB105-01-113006	B610373-03
JAX47-SB106-01-113006	B610373-05
JAX47-SB107-01-113006	B610373-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.25 10:00:35 -05'00'

Name: Christina Tompkins

Date: 01/23/07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-011

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.001	0.05	ug/L
gamma-BHC	0.002	0.05	ug/L
beta-BHC	0.002	0.05	ug/L
delta-BHC	0.001	0.05	ug/L
Heptachlor	0.001	0.05	ug/L
Aldrin	0.002	0.05	ug/L
Heptachlor epoxide	0.001	0.05	ug/L
Chlordane-gamma	0.001	0.05	ug/L
Chlordane-alpha	0.001	0.05	ug/L
4,4´-DDE	0.002	0.05	ug/L
Endosulfan I	0.002	0.05	ug/L
Dieldrin	0.0008	0.05	ug/L
Endrin	0.002	0.05	ug/L
4,4´-DDD	0.0004	0.05	ug/L
Endosulfan II	0.002	0.05	ug/L
4,4´-DDT	0.002	0.05	ug/L
Endrin aldehyde	0.009	0.05	ug/L
Methoxychlor	0.003	0.05	ug/L
Endosulfan sulfate	0.002	0.05	ug/L
Endrin ketone	0.003	0.05	ug/L
Toxaphene	0.05	1	ug/L
alpha-BHC [2C]	0.001	0.05	ug/L
gamma-BHC [2C]	0.002	0.05	ug/L
beta-BHC [2C]	0.002	0.05	ug/L
delta-BHC [2C]	0.001	0.05	ug/L
Heptachlor [2C]	0.001	0.05	ug/L
Aldrin [2C]	0.002	0.05	ug/L
Heptachlor epoxide [2C]	0.001	0.05	ug/L
Chlordane-gamma [2C]	0.001	0.05	ug/L
Chlordane-alpha [2C]	0.001	0.05	ug/L
4,4'-DDE [2C]	0.002	0.05	ug/L
Endosulfan I [2C]	0.002	0.05	ug/L
Dieldrin [2C]	0.0008	0.05	ug/L
Endrin [2C]	0.002	0.05	ug/L
4,4'-DDD [2C]	0.0004	0.05	ug/L
Endosulfan II [2C]	0.002	0.05	ug/L
4,4'-DDT [2C]	0.002	0.05	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-011

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.009	0.05	ug/L
Methoxychlor [2C]	0.003	0.05	ug/L
Endosulfan sulfate [2C]	0.002	0.05	ug/L
Endrin ketone [2C]	0.003	0.05	ug/L
Toxaphene [2C]	0.05	1	ug/L

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L21005 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L21005-BLK1	9AGB015B-0	12/19/06 18:00	
Blank	6L21005-BLK1	9AGA015B-0	12/19/06 18:00	
LCS	6L21005-BS1	9AGB016-0	12/19/06 18:00	
LCS	6L21005-BS1	9AGA016-0	12/19/06 18:00	
JAX47-SB100-01-113006	6L21005-MS1	9AGB017-0	12/19/06 18:00	
JAX47-SB100-01-113006	6L21005-MS1	9AGA017-0	12/19/06 18:00	
JAX47-SB100-01-113006	6L21005-MSD1	9AGA018-0	12/19/06 18:00	
JAX47-SB100-01-113006	6L21005-MSD1	9AGB018-0	12/19/06 18:00	
JAX47-SB100-01-113006	B610373-01	9AGA019-0	12/19/06 18:00	
JAX47-SB100-01-113006	B610373-01	9AGB019-0	12/19/06 18:00	
JAX47-SB105-01-113006	B610373-03	9AGB020-0	12/19/06 18:00	
JAX47-SB105-01-113006	B610373-03	9AGA020-0	12/19/06 18:00	
JAX47-SB106-01-113006	B610373-05	9AGB021-0	12/19/06 18:00	
JAX47-SB106-01-113006	B610373-05	9AGA021-0	12/19/06 18:00	
JAX47-SB107-01-113006	B610373-07	9AGB022-0	12/19/06 18:00	
JAX47-SB107-01-113006	B610373-07	9AGA022-0	12/19/06 18:00	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00171	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00171-IBL1	9AGA012A-0	01/13/07 12:36
Instrument Blank	BA00171-IBL1	9AGB012A-0	01/13/07 12:36
Performance Mix	BA00171-PEM1	9AGB013A-0	01/13/07 13:02
Performance Mix	BA00171-PEM1	9AGA013A-0	01/13/07 13:02
Calibration Check	BA00171-CCV1	9AGB014B-0	01/13/07 13:27
Calibration Check	BA00171-CCV1	9AGA014B-0	01/13/07 13:27
Blank	6L21005-BLK1	9AGB015B-0	01/13/07 13:53
Blank	6L21005-BLK1	9AGA015B-0	01/13/07 13:53
LCS	6L21005-BS1	9AGA016-0	01/13/07 14:19
LCS	6L21005-BS1	9AGB016-0	01/13/07 14:19
JAX47-SB100-01-113006	6L21005-MS1	9AGA017-0	01/13/07 14:45
JAX47-SB100-01-113006	6L21005-MS1	9AGB017-0	01/13/07 14:45
JAX47-SB100-01-113006	6L21005-MSD1	9AGB018-0	01/13/07 15:11
JAX47-SB100-01-113006	6L21005-MSD1	9AGA018-0	01/13/07 15:11
JAX47-SB100-01-113006	B610373-01	9AGB019-0	01/13/07 15:36
JAX47-SB100-01-113006	B610373-01	9AGA019-0	01/13/07 15:36
JAX47-SB105-01-113006	B610373-03	9AGB020-0	01/13/07 16:02
JAX47-SB105-01-113006	B610373-03	9AGA020-0	01/13/07 16:02
JAX47-SB106-01-113006	B610373-05	9AGB021-0	01/13/07 16:28
JAX47-SB106-01-113006	B610373-05	9AGA021-0	01/13/07 16:28
JAX47-SB107-01-113006	B610373-07	9AGA022-0	01/13/07 16:54
JAX47-SB107-01-113006	B610373-07	9AGB022-0	01/13/07 16:54
Calibration Check	BA00171-CCV2	9AGB023-0	01/13/07 17:20
Calibration Check	BA00171-CCV2	9AGA023-0	01/13/07 17:20

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00212-PEM1	9LGB002-0	12/12/06 16:59
Performance Mix	BA00212-PEM1	9LGA002-0	12/12/06 16:59
Cal Standard	BA00212-CAL1	9LGA004-0	12/12/06 18:03
Cal Standard	BA00212-CAL1	9LGB004-0	12/12/06 18:03
Cal Standard	BA00212-CAL2	9LGA005-0	12/12/06 18:29
Cal Standard	BA00212-CAL2	9LGB005-0	12/12/06 18:29
Cal Standard	BA00212-CAL3	9LGB006-0	12/12/06 18:55
Cal Standard	BA00212-CAL3	9LGA006-0	12/12/06 18:55
Cal Standard	BA00212-CAL4	9LGB007-0	12/12/06 19:21
Cal Standard	BA00212-CAL4	9LGA007-0	12/12/06 19:21
Cal Standard	BA00212-CAL5	9LGA008-0	12/12/06 19:47
Cal Standard	BA00212-CAL5	9LGB008-0	12/12/06 19:47
Cal Standard	BA00212-CAL6	9LGA009-0	12/12/06 20:13
Cal Standard	BA00212-CAL6	9LGB009-0	12/12/06 20:13
Cal Standard	BA00212-CAL7	9LGB010-0	12/12/06 20:39
Cal Standard	BA00212-CAL7	9LGA010-0	12/12/06 20:39

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB100-01-113006	11/30/06 15:35	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/13/07 15:36	25.00	40.00	
JAX47-SB105-01-113006	11/30/06 16:10	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/13/07 16:02	25.00	40.00	
JAX47-SB106-01-113006	11/30/06 16:24	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/13/07 16:28	25.00	40.00	
JAX47-SB107-01-113006	11/30/06 16:38	12/01/06 16:50	12/19/06 18:00	*6	7.00	01/13/07 16:54	25.00	40.00	

* Method 1312 was leached on 12/13/06

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGA014B-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00171	Injection Date:	01/13/07
Lab Sample ID:	BA00171-CCV1	Injection Time:	13:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.101	7.280474E+07	7.38003E+07		1.4	20
gamma-BHC	A	0.100	0.100	6.465721E+07	6.47406E+07		0.1	20
beta-BHC	A	0.100	0.102	2.323065E+07	2.37119E+07		2.1	20
delta-BHC	A	0.100	0.104	5.66961E+07	5.91737E+07		4.4	20
Heptachlor	A	0.100	0.0947	6.414063E+07	6.07645E+07		-5.3	20
Aldrin	A	0.100	0.0966	6.149162E+07	5.93919E+07		-3.4	20
Heptachlor epoxide	A	0.100	0.0933	5.405995E+07	5.04223E+07		-6.7	20
Chlordane-gamma	A	0.100	0.0950	5.527518E+07	5.25329E+07		-5.0	20
Chlordane-alpha	A	0.100	0.0945	5.296272E+07	5.00461E+07		-5.5	20
4,4′-DDE	A	0.100	0.0932	5.244698E+07	4.88694E+07		-6.8	20
Endosulfan I	A	0.100	0.0959	4.972951E+07	4.76925E+07		-4.1	20
Dieldrin	A	0.100	0.0931	5.436507E+07	5.06288E+07		-6.9	20
Endrin	A	0.100	0.0976	4.627937E+07	4.5147E+07		-2.4	20
4,4′-DDD	A	0.100	0.0953	4.00135E+07	3.81203E+07		-4.7	20
Endosulfan II	A	0.100	0.0939	4.442927E+07	4.17005E+07		-6.1	20
4,4′-DDT	A	0.100	0.0956	4.164772E+07	3.98151E+07		-4.4	20
Endrin aldehyde	A	0.100	0.0970	3.13612E+07	3.0434E+07		-3.0	20
Methoxychlor	A	0.100	0.0876	2.117353E+07	1.85457E+07		-12.4	20
Endosulfan sulfate	A	0.100	0.0968	3.673694E+07	3.55649E+07		-3.2	20
Endrin ketone	A	0.100	0.0925	4.568736E+07	4.22657E+07		-7.5	20
alpha-BHC [2C]	A	0.100	0.102	7.552835E+07	7.69385E+07		1.9	20
gamma-BHC [2C]	A	0.100	0.102	6.719113E+07	6.82995E+07		1.6	20
beta-BHC [2C]	A	0.100	0.106	2.472905E+07	2.61474E+07		5.7	20
delta-BHC [2C]	A	0.100	0.105	5.850208E+07	6.15408E+07		5.2	20
Heptachlor [2C]	A	0.100	0.0982	6.67268E+07	6.55375E+07		-1.8	20
Aldrin [2C]	A	0.100	0.0988	6.357242E+07	6.28189E+07		-1.2	20
Heptachlor epoxide [2C]	A	0.100	0.0961	5.626251E+07	5.40696E+07		-3.9	20
Chlordane-gamma [2C]	A	0.100	0.0985	5.722595E+07	5.63628E+07		-1.5	20
Chlordane-alpha [2C]	A	0.100	0.0965	5.472749E+07	5.28367E+07		-3.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGB014B-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00171	Injection Date:	01/13/07
Lab Sample ID:	BA00171-CCV1	Injection Time:	13:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0983	5.341989E+07	5.25036E+07		-1.7	20
Endosulfan I [2C]	A	0.100	0.0961	5.087841E+07	4.88935E+07		-3.9	20
Dieldrin [2C]	A	0.100	0.0970	5.608619E+07	5.44001E+07		-3.0	20
Endrin [2C]	A	0.100	0.0999	4.605028E+07	4.59969E+07		-0.1	20
4,4'-DDD [2C]	A	0.100	0.0959	4.157866E+07	3.98888E+07		-4.1	20
Endosulfan II [2C]	A	0.100	0.0958	4.58875E+07	4.39722E+07		-4.2	20
4,4'-DDT [2C]	A	0.100	0.0967	4.184652E+07	4.04533E+07		-3.3	20
Endrin aldehyde [2C]	A	0.100	0.0987	3.232817E+07	3.18925E+07		-1.3	20
Methoxychlor [2C]	A	0.100	0.0912	2.018515E+07	1.8413E+07		-8.8	20
Endosulfan sulfate [2C]	A	0.100	0.0986	3.836149E+07	3.78258E+07		-1.4	20
Endrin ketone [2C]	A	0.100	0.0934	4.596086E+07	4.29437E+07		-6.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JSVGCECD2
Calibration: 0701020
Lab File ID: 9AGA023-0
Calibration Date: 12/12/06 10:53
Sequence: BA00171
Injection Date: 01/13/07
Lab Sample ID: BA00171-CCV2
Injection Time: 17:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.112	7.280474E+07	8.12987E+07		11.7	20
gamma-BHC	A	0.100	0.111	6.465721E+07	7.20334E+07		11.4	20
beta-BHC	A	0.100	0.112	2.323065E+07	2.6145E+07		12.5	20
delta-BHC	A	0.100	0.114	5.66961E+07	6.45545E+07		13.9	20
Heptachlor	A	0.100	0.104	6.414063E+07	6.68226E+07		4.2	20
Aldrin	A	0.100	0.106	6.149162E+07	6.53717E+07		6.3	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.5276E+07		2.2	20
Chlordane-gamma	A	0.100	0.105	5.527518E+07	5.79446E+07		4.8	20
Chlordane-alpha	A	0.100	0.104	5.296272E+07	5.50965E+07		4.0	20
4,4′-DDE	A	0.100	0.103	5.244698E+07	5.42404E+07		3.4	20
Endosulfan I	A	0.100	0.104	4.972951E+07	5.19351E+07		4.4	20
Dieldrin	A	0.100	0.102	5.436507E+07	5.55565E+07		2.2	20
Endrin	A	0.100	0.109	4.627937E+07	5.03472E+07		8.8	20
4,4′-DDD	A	0.100	0.105	4.00135E+07	4.21749E+07		5.4	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.57512E+07		3.0	20
4,4′-DDT	A	0.100	0.106	4.164772E+07	4.42519E+07		6.3	20
Endrin aldehyde	A	0.100	0.108	3.13612E+07	3.37729E+07		7.7	20
Methoxychlor	A	0.100	0.0973	2.117353E+07	2.06113E+07		-2.7	20
Endosulfan sulfate	A	0.100	0.108	3.673694E+07	3.94968E+07		7.5	20
Endrin ketone	A	0.100	0.102	4.568736E+07	4.67868E+07		2.4	20
alpha-BHC [2C]	A	0.100	0.112	7.552835E+07	8.42434E+07		11.5	20
gamma-BHC [2C]	A	0.100	0.111	6.719113E+07	7.46421E+07		11.1	20
beta-BHC [2C]	A	0.100	0.115	2.472905E+07	2.84898E+07		15.2	20
delta-BHC [2C]	A	0.100	0.116	5.850208E+07	6.81505E+07		16.5	20
Heptachlor [2C]	A	0.100	0.107	6.67268E+07	7.1615E+07		7.3	20
Aldrin [2C]	A	0.100	0.108	6.357242E+07	6.871E+07		8.1	20
Heptachlor epoxide [2C]	A	0.100	0.105	5.626251E+07	5.89636E+07		4.8	20
Chlordane-gamma [2C]	A	0.100	0.108	5.722595E+07	6.17638E+07		7.9	20
Chlordane-alpha [2C]	A	0.100	0.106	5.472749E+07	5.78436E+07		5.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGB023-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00171	Injection Date:	01/13/07
Lab Sample ID:	BA00171-CCV2	Injection Time:	17:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.107	5.341989E+07	5.73007E+07		7.3	20
Endosulfan I [2C]	A	0.100	0.105	5.087841E+07	5.3447E+07		5.0	20
Dieldrin [2C]	A	0.100	0.106	5.608619E+07	5.93929E+07		5.9	20
Endrin [2C]	A	0.100	0.111	4.605028E+07	5.1169E+07		11.1	20
4,4'-DDD [2C]	A	0.100	0.106	4.157866E+07	4.40609E+07		6.0	20
Endosulfan II [2C]	A	0.100	0.105	4.58875E+07	4.8196E+07		5.0	20
4,4'-DDT [2C]	A	0.100	0.105	4.184652E+07	4.3777E+07		4.6	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.50767E+07		8.5	20
Methoxychlor [2C]	A	0.100	0.103	2.018515E+07	2.07514E+07		2.8	20
Endosulfan sulfate [2C]	A	0.100	0.109	3.836149E+07	4.17474E+07		8.8	20
Endrin ketone [2C]	A	0.100	0.103	4.596086E+07	4.74532E+07		3.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Calibration:	0701020		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-01	File ID:	9AGA019-0
Sampled:	11/30/06 15:35	Prepared:	12/19/06 18:00	Analyzed:	01/13/07 15:36
Solids:	95.95	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21005	Sequence:	BA00171		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	* 1	7.651	8.023286	0.372		0.006		
beta-BHC	* 1	8.452	8.816429	0.364		0.014	0.00000	
delta-BHC	* 1	8.755	9.124286	0.369		0.013	8.33	
Heptachlor epoxide	* 1	10.587	10.95643	0.369		0.006	16.7	
Chlordane-gamma	* 1	10.778	11.14771	0.37		0.043	23.3	
Chlordane-alpha	1	10.966	11.34971	0.384		0.150	213	R for 4
4,4'-DDE	* 1	11.131	11.48286	0.352		0.084	J	
Dieldrin	* 1	11.546	11.91886	0.373		0.058	19	
4,4'-DDD	* 1	12.02	12.37786	0.358		0.195		
Endosulfan II	* 1	12.215	12.60057	0.386		0.003	433	
4,4'-DDT	* 1	12.423	12.78071	0.358		0.129		J for 4
Methoxychlor	* 1	13.122	13.48543	0.363		0.043	231	R for 4
alpha-BHC	2	7.496	7.838	0.342		0.006	0.00000	
beta-BHC	2	8.356	8.687429	0.331		0.014	0.00000	
delta-BHC	2	8.847	9.180286	0.333		0.012	8.33	
Heptachlor epoxide	2	10.337	10.67843	0.341		0.007	16.7	
Chlordane-gamma	2	10.632	10.97329	0.341		0.053	23.3	
Chlordane-alpha	* 2	10.855	11.19143	0.336		0.048	212	
4,4'-DDE	2	11.15	11.47543	0.325		0.066		
Dieldrin	2	11.333	11.67429	0.341		0.069	19	
4,4'-DDD	2	11.997	12.32514	0.328		0.266		
Endosulfan II	2	12.05	12.43571	0.386		0.016	433	
4,4'-DDT	2	12.444	12.77157	0.328		0.141		
Methoxychlor	2	13.46	13.77371	0.314		0.013	231	
Endosulfan sulfate	2	12.934	13.32643	0.392		0.004		
2,4,5,6-TCMX	* 1	6.473	6.848286	0.375		0.798	2.31	
2,4,5,6-TCMX	2	6.217	6.564286	0.347		0.780		
DBC	* 1	13.753	14.10214	0.349		0.812	0.246	
DBC	2	13.589	13.90914	0.32		0.814		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03	File ID:	9AGA020-0
Sampled:	11/30/06 16:10	Prepared:	12/19/06 18:00	Analyzed:	01/13/07 16:02
Solids:	95.66	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21005	Sequence:	BA00171		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	* 1	9.093	9.463429	0.37		0.005	20
Heptachlor epoxide	* 1	10.586	10.95643	0.37		0.134	8.96
Chlordane-gamma	* 1	10.778	11.14771	0.37		0.087	8.05
Chlordane-alpha	1	10.97	11.34971	0.38		0.291	160
4,4'-DDE	* 1	11.13	11.48286	0.353		0.092	
Dieldrin	* 1	11.547	11.91886	0.372		0.178	5.06
Endrin	* 1	11.887	12.26457	0.378		0.005	150
4,4'-DDD	* 1	12.021	12.37786	0.357		0.057	
Endosulfan II	* 1	12.215	12.60057	0.386		0.003	
4,4'-DDT	* 1	12.424	12.78071	0.357		0.150	
Methoxychlor	* 1	13.123	13.48543	0.362		0.036	30.6
Heptachlor	2	8.896	9.237571	0.342		0.006	20
Heptachlor epoxide	2	10.338	10.67843	0.34		0.146	8.96
Chlordane-gamma	2	10.632	10.97329	0.341		0.094	8.05
Chlordane-alpha	* 2	10.856	11.19143	0.335		0.112	160
4,4'-DDE	2	11.15	11.47543	0.325		0.080	
Dieldrin	2	11.333	11.67429	0.341		0.187	5.06
Endrin	2	11.776	12.121	0.345		0.002	150
4,4'-DDD	2	11.998	12.32514	0.327		0.064	
4,4'-DDT	2	12.443	12.77157	0.329		0.158	
Methoxychlor	2	13.46	13.77371	0.314		0.047	30.6
2,4,5,6-TCMX	* 1	6.474	6.848286	0.374		0.874	0.46
2,4,5,6-TCMX	2	6.217	6.564286	0.347		0.870	
DBC	* 1	13.753	14.10214	0.349		0.835	1.56
DBC	2	13.59	13.90914	0.319		0.848	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-05	File ID:	9AGA021-0
Sampled:	11/30/06 16:24	Prepared:	12/19/06 18:00	Analyzed:	01/13/07 16:28
Solids:	97.06	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21005	Sequence:	BA00171		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	1	8.459	8.816429	0.357		0.022	450
Heptachlor epoxide	* 1	10.587	10.95643	0.369		0.013	23.1
Chlordane-gamma	* 1	10.779	11.14771	0.369		0.093	7.53
Chlordane-alpha	* 1	10.977	11.34971	0.373		0.127	3.94
4,4'-DDE	* 1	11.13	11.48286	0.353		0.188	
Dieldrin	* 1	11.548	11.91886	0.371		0.417	5.04
Endrin	* 1	11.887	12.26457	0.378		0.015	26.7
4,4'-DDD	* 1	12.021	12.37786	0.357		0.114	
4,4'-DDT	* 1	12.424	12.78071	0.357		0.503	
Methoxychlor	* 1	13.123	13.48543	0.362		0.007	28.6
Endrin ketone	* 1	13.872	14.25229	0.38		0.006	0.00000
beta-BHC	* 2	8.358	8.687429	0.329		0.004	450
Heptachlor epoxide	2	10.34	10.67843	0.338		0.016	23.1
Chlordane-gamma	2	10.634	10.97329	0.339		0.100	7.53
Chlordane-alpha	2	10.857	11.19143	0.334		0.132	3.94
4,4'-DDE	2	11.152	11.47543	0.323		0.194	
Dieldrin	2	11.334	11.67429	0.34		0.438	5.04
Endrin	2	11.777	12.121	0.344		0.019	26.7
4,4'-DDD	2	11.997	12.32514	0.328		0.177	
4,4'-DDT	2	12.444	12.77157	0.328		0.527	
Methoxychlor	2	13.461	13.77371	0.313		0.009	28.6
Endrin ketone	2	13.738	14.08214	0.344		0.006	0.00000
2,4,5,6-TCMX	* 1	6.474	6.848286	0.374		0.824	0.611
2,4,5,6-TCMX	2	6.218	6.564286	0.346		0.819	0.61
DBC	* 1	13.753	14.10214	0.349		0.663	2.56
DBC	2	13.59	13.90914	0.319		0.680	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-07	File ID:	9AGA022-0
Sampled:	11/30/06 16:38	Prepared:	12/19/06 18:00	Analyzed:	01/13/07 16:54
Solids:	98.00	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21005	Sequence:	BA00171		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.586	10.95643	0.37		0.081	4.94
Chlordane-gamma	* 1	10.779	11.14771	0.369		0.050	10
Chlordane-alpha	* 1	10.97	11.34971	0.38		0.103	17
4,4'-DDE	* 1	11.132	11.48286	0.351		0.046	J
Dieldrin	* 1	11.548	11.91886	0.371		0.626	3.67
Endrin	* 1	11.889	12.26457	0.376		0.016	43.7 5 for 4
4,4'-DDD	* 1	12.021	12.37786	0.357		0.051	✓
4,4'-DDT	* 1	12.425	12.78071	0.356		0.083	✓
Methoxychlor	* 1	13.124	13.48543	0.361		0.036	464 R for 4
Endrin ketone	* 1	13.873	14.25229	0.379		0.010	10
Heptachlor epoxide	2	10.339	10.67843	0.339		0.085	4.94
Chlordane-gamma	2	10.632	10.97329	0.341		0.055	10
Chlordane-alpha	2	10.857	11.19143	0.334		0.088	17
4,4'-DDE	2	11.151	11.47543	0.324		0.037	
Dieldrin	2	11.334	11.67429	0.34		0.649	3.67
Endrin	2	11.775	12.121	0.346		0.023	43.8
4,4'-DDD	2	11.998	12.32514	0.327		0.053	
4,4'-DDT	2	12.444	12.77157	0.328		0.082	
Methoxychlor	2	13.461	13.77371	0.313		0.203	464
Endrin ketone	2	13.737	14.08214	0.345		0.011	10
2,4,5,6-TCMX	* 1	6.473	6.848286	0.375		0.878	0.804
2,4,5,6-TCMX	2	6.217	6.564286	0.347		0.871	
DBC	* 1	13.754	14.10214	0.348		0.819	1.95
DBC	2	13.59	13.90914	0.319		0.835	

* Column used for quantitation

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00171	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L21005-BLK1)			Lab File ID: 9AGA015B-0		Analyzed: 01/13/07 13:53			
2,4,5,6-TCMX	1.00	90	25 - 140	6.472	6.471	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	89	25 - 140	6.216	6.215	0.001	+/-0.3	
DBC	1.00	91	30 - 135	13.752	13.752	0	+/-0.3	
DBC [2C]	1.00	93	30 - 135	13.589	13.588	0.001	+/-0.3	
JAX47-SB100-01-113006 (B610373-01)			Lab File ID: 9AGA019-0		Analyzed: 01/13/07 15:36			
2,4,5,6-TCMX	1.00	80	25 - 140	6.473	6.471	0.002	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	78	25 - 140	6.217	6.215	0.002	+/-0.3	
DBC	1.00	81	30 - 135	13.753	13.752	0.001	+/-0.3	
DBC [2C]	1.00	81	30 - 135	13.589	13.588	0.001	+/-0.3	
JAX47-SB105-01-113006 (B610373-03)			Lab File ID: 9AGA020-0		Analyzed: 01/13/07 16:02			
2,4,5,6-TCMX	1.00	87	25 - 140	6.474	6.471	0.003	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	87	25 - 140	6.217	6.215	0.002	+/-0.3	
DBC	1.00	84	30 - 135	13.753	13.752	0.001	+/-0.3	
DBC [2C]	1.00	85	30 - 135	13.59	13.588	0.002	+/-0.3	
JAX47-SB106-01-113006 (B610373-05)			Lab File ID: 9AGA021-0		Analyzed: 01/13/07 16:28			
2,4,5,6-TCMX	1.00	82	25 - 140	6.474	6.471	0.003	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	82	25 - 140	6.218	6.215	0.003	+/-0.3	
DBC	1.00	66	30 - 135	13.753	13.752	0.001	+/-0.3	
DBC [2C]	1.00	68	30 - 135	13.59	13.588	0.002	+/-0.3	
JAX47-SB107-01-113006 (B610373-07)			Lab File ID: 9AGA022-0		Analyzed: 01/13/07 16:54			
2,4,5,6-TCMX	1.00	88	25 - 140	6.473	6.471	0.002	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	87	25 - 140	6.217	6.215	0.002	+/-0.3	
DBC	1.00	82	30 - 135	13.754	13.752	0.002	+/-0.3	
DBC [2C]	1.00	84	30 - 135	13.59	13.588	0.002	+/-0.3	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L21005-BLK1	File ID:	9AGA015B-0
Prepared:	12/19/06 18:00	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/13/07 13:53	Instrument:	JSVGCECD2		
Batch:	6L21005	Sequence:	BA00171	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4´-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4´-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4´-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.00	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L21005-BLK1	File ID:	9AGB015B-0
Prepared:	12/19/06 18:00	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/13/07 13:53	Instrument:	JSVGCECD2		
Batch:	6L21005	Sequence:	BA00171	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.899	90	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.890	89	25 - 140	
DBC	1.00	0.908	91	30 - 135	
DBC [2C]	1.00	0.926	93	30 - 135	

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21005
Laboratory ID: 6L21005-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.941	94	60 - 130
gamma-BHC	1.00	0.943	94	25 - 135
beta-BHC	1.00	0.969	97	65 - 125
delta-BHC	1.00	0.933	93	45 - 135
Heptachlor	1.00	0.872	87	40 - 130
Aldrin	1.00	0.852	85	25 - 140
Heptachlor epoxide	1.00	0.892	89	60 - 130
Chlordane-gamma	1.00	0.901	90	60 - 125
Chlordane-alpha	1.00	0.897	90	65 - 125
4,4'-DDE	1.00	0.896	90	35 - 140
Endosulfan I	1.00	0.905	90	50 - 110
Dieldrin	1.00	0.889	89	60 - 130
Endrin	1.00	0.938	94	55 - 135
4,4'-DDD	1.00	0.910	91	25 - 150
Endosulfan II	1.00	0.903	90	30 - 130
4,4'-DDT	1.00	0.920	92	45 - 140
Endrin aldehyde	1.00	0.943	94	55 - 135
Methoxychlor	1.00	0.856	86	55 - 150
Endosulfan sulfate	1.00	0.924	92	55 - 135
Endrin ketone	1.00	0.890	89	75 - 125
alpha-BHC [2C]	1.00	0.952	95	60 - 130
gamma-BHC [2C]	1.00	0.956	96	25 - 135
beta-BHC [2C]	1.00	1.00	100	65 - 125
delta-BHC [2C]	1.00	0.961	96	45 - 135
Heptachlor [2C]	1.00	0.899	90	40 - 130
Aldrin [2C]	1.00	0.883	88	25 - 140
Heptachlor epoxide [2C]	1.00	0.919	92	60 - 130
Chlordane-gamma [2C]	1.00	0.934	93	60 - 125
Chlordane-alpha [2C]	1.00	0.920	92	65 - 125
4,4'-DDE [2C]	1.00	0.939	94	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21005	Laboratory ID:	6L21005-BS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.919	92	50 - 110
Dieldrin [2C]	1.00	0.926	93	60 - 130
Endrin [2C]	1.00	0.966	97	55 - 135
4,4'-DDD [2C]	1.00	0.938	94	25 - 150
Endosulfan II [2C]	1.00	0.924	92	30 - 130
4,4'-DDT [2C]	1.00	0.941	94	45 - 140
Endrin aldehyde [2C]	1.00	0.955	96	55 - 135
Methoxychlor [2C]	1.00	0.903	90	55 - 150
Endosulfan sulfate [2C]	1.00	0.947	95	55 - 135
Endrin ketone [2C]	1.00	0.905	90	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8081A

JAX47-SB100-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21005
Laboratory ID: 6L21005-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.00600	0.955	95	60 - 130
gamma-BHC	1.00	ND	0.936	94	25 - 135
beta-BHC	1.00	0.0140	1.00	99	65 - 125
delta-BHC	1.00	0.0130	0.997	98	45 - 135
Heptachlor	1.00	ND	0.848	85	40 - 130
Aldrin	1.00	ND	0.822	82	25 - 140
Heptachlor epoxide	1.00	0.00600	0.912	91	60 - 130
Chlordane-gamma	1.00	0.0430	0.933	89	60 - 125
Chlordane-alpha	1.00	0.150	1.08	93	65 - 125
4,4'-DDE	1.00	0.0840	1.02	93	35 - 140
Endosulfan I	1.00	ND	0.786	79	50 - 110
Dieldrin	1.00	0.0580	1.00	95	60 - 130
Endrin	1.00	ND	0.959	96	55 - 135
4,4'-DDD	1.00	0.195	1.28	108	25 - 150
Endosulfan II	1.00	0.00300	0.698	70	30 - 130
4,4'-DDT	1.00	0.129	1.15	102	45 - 140
Endrin aldehyde	1.00	ND	0.921	92	55 - 135
Methoxychlor	1.00	0.0430	0.942	90	55 - 150
Endosulfan sulfate	1.00	ND	0.948	95	55 - 135
Endrin ketone	1.00	ND	0.928	93	75 - 125
alpha-BHC [2C]	1.00	0.00600	0.959	95	60 - 130
gamma-BHC [2C]	1.00	ND	0.943	94	25 - 135
beta-BHC [2C]	1.00	0.0140	1.03	101	65 - 125
delta-BHC [2C]	1.00	0.0120	1.02	100	45 - 135
Heptachlor [2C]	1.00	ND	0.866	87	40 - 130
Aldrin [2C]	1.00	ND	0.854	85	25 - 140
Heptachlor epoxide [2C]	1.00	0.00700	0.929	92	60 - 130
Chlordane-gamma [2C]	1.00	0.0530	0.951	90	60 - 125
Chlordane-alpha [2C]	1.00	0.0480	0.934	89	65 - 125
4,4'-DDE [2C]	1.00	0.0660	1.01	94	35 - 140
Endosulfan I [2C]	1.00	ND	0.843	84	50 - 110
Dieldrin [2C]	1.00	0.0690	1.03	96	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21005	Laboratory ID:	6L21005-MS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	ND	0.985	98	55 - 135
4,4'-DDD [2C]	1.00	0.266	1.36	109	25 - 150
Endosulfan II [2C]	1.00	0.0160	0.718	70	30 - 130
4,4'-DDT [2C]	1.00	0.141	1.18	104	45 - 140
Endrin aldehyde [2C]	1.00	ND	0.927	93	55 - 135
Methoxychlor [2C]	1.00	0.0130	0.953	94	55 - 150
Endosulfan sulfate [2C]	1.00	0.00400	0.957	95	55 - 135
Endrin ketone [2C]	1.00	ND	0.943	94	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	1.00	99	5	30	60 - 130
gamma-BHC	1.00	0.982	98	5	30	25 - 135
beta-BHC	1.00	1.04	102	4	30	65 - 125
delta-BHC	1.00	1.04	102	4	30	45 - 135
Heptachlor	1.00	0.893	89	5	30	40 - 130
Aldrin	1.00	0.854	85	4	30	25 - 140
Heptachlor epoxide	1.00	0.947	94	4	30	60 - 130
Chlordane-gamma	1.00	0.959	92	3	30	60 - 125
Chlordane-alpha	1.00	1.08	93	0.6	30	65 - 125
4,4'-DDE	1.00	1.04	96	2	30	35 - 140
Endosulfan I	1.00	0.824	82	5	30	50 - 110
Dieldrin	1.00	1.03	97	2	30	60 - 130
Endrin	1.00	1.00	100	4	30	55 - 135
4,4'-DDD	1.00	1.28	108	0.08	30	25 - 150
Endosulfan II	1.00	0.734	73	5	30	30 - 130
4,4'-DDT	1.00	1.18	105	2	30	45 - 140
Endrin aldehyde	1.00	0.959	96	4	30	55 - 135
Methoxychlor	1.00	0.945	90	0.3	30	55 - 150
Endosulfan sulfate	1.00	0.987	99	4	30	55 - 135
Endrin ketone	1.00	0.967	97	4	30	75 - 125
alpha-BHC [2C]	1.00	1.00	100	4	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21005	Laboratory ID:	6L21005-MSD1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.985	98	4	30	25 - 135
beta-BHC [2C]	1.00	1.06	105	4	30	65 - 125
delta-BHC [2C]	1.00	1.04	103	2	30	45 - 135
Heptachlor [2C]	1.00	0.908	91	5	30	40 - 130
Aldrin [2C]	1.00	0.895	90	5	30	25 - 140
Heptachlor epoxide [2C]	1.00	0.978	97	5	30	60 - 130
Chlordane-gamma [2C]	1.00	0.977	92	3	30	60 - 125
Chlordane-alpha [2C]	1.00	0.960	91	3	30	65 - 125
4,4'-DDE [2C]	1.00	1.04	98	3	30	35 - 140
Endosulfan I [2C]	1.00	0.876	88	4	30	50 - 110
Dieldrin [2C]	1.00	1.05	98	2	30	60 - 130
Endrin [2C]	1.00	1.03	103	4	30	55 - 135
4,4'-DDD [2C]	1.00	1.35	109	0.5	30	25 - 150
Endosulfan II [2C]	1.00	0.759	74	6	30	30 - 130
4,4'-DDT [2C]	1.00	1.19	105	1	30	45 - 140
Endrin aldehyde [2C]	1.00	0.962	96	4	30	55 - 135
Methoxychlor [2C]	1.00	0.991	98	4	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.996	99	4	30	55 - 135
Endrin ketone [2C]	1.00	0.981	98	4	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MARK PETERSON** **DATE:** **MARCH 6, 2007**

FROM: **PRESTON SMITH** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- PESTICIDES**
CTO 047, NAS JACKSONVILLE
SDG BR006-011

SAMPLES: 8/Soil

JAX47-SB100-01-113006	JAX47-SB100-05-113006
JAX47-SB105-01-113006	JAX47-SB105-05-113006
JAX47-SB106-01-113006	JAX47-SB106-05-113006
JAX47-SB107-01-113006	JAX47-SB107-05-113006

OVERVIEW

The sample set for CTO 047, NAS Jacksonville, SDG BR006-011 consists of eight (8) environmental soil samples. All above aqueous samples were analyzed as indicated above.

The samples were collected by TetraTech NUS on November 30, 2006 and analyzed by Environmental Conservation Laboratories, Inc. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8081A analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• Initial and continuing calibration
*	• Blank results
*	• Surrogate spike recoveries
	• Blank Spike/Blank Spike Duplicate Results
	• Matrix Spike/Matrix Spike Duplicate Results
*	• Detection Limits
	• Compound Quantitation
*	• Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Pesticides

The laboratory reported down to Reporting Limits (RL) on all Form Is for all compounds instead of to Method Detection Limits (MDLs). However, MDLs were included in the database for all compounds and these limits were used for validation.

The following compound was detected in the method blank on 12/15/06 at 19:00 on column 1 and column 2 at the following maximum concentration:

Compound	Maximum Concentration	Action Level
4,4'DDT	0.167 ug/kg	0.835 ug/kg

An action level of 5X the maximum contaminant concentration was established to evaluate blank contamination for this compound. Dilution factors, % solids and sample aliquot were taken into consideration in the establishment of the blank action level. No action was taken because all DDT results exceeded the blank action level.

The dual column confirmation %D was greater than the 25% QC limit for at least one compound analyzed on 6 out of the 8 samples. The affected results were qualified as estimated (J) for this noncompliance. Compounds not confirmed, but reported by the laboratory were qualified as estimated (UJ).

The continuing calibration performed on 12/15/06 at 18:34 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for heptachlor on column 1 and column 2. The positive result in samples JAX47-SB105-01-113006 and JAX47-SB106-01-113006 was qualified estimated (J) for this noncompliance. Nondetects in associated samples were qualified estimated (UJ).

The continuing calibration performed on 12/15/06 at 23:19 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for alpha chlordane, endosulfan sulfate, methoxychlor, and endrin aldehyde and on column 1 and column 2. The positive result for methoxychlor in sample JAX47-SB107-01-113006 was qualified estimated (J) for this noncompliance. Nondetects for endrin aldehyde, alpha chlordane, and endosulfan sulfate in associated samples were qualified estimated (UJ).

The continuing calibration performed on 12/16/06 at 01:28 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor, 4,4'-DDD and 4,4'-DDT on column 1 and column 2. Positive and nondetect results for methoxychlor and 4,4'-DDD qualified estimated (J)/(UJ).

The continuing calibration performed on 12/21/06 at 21:20 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for 4,4'-DDD and 4,4'-DDT on column 1 and column 2. The positive result for 4,4'-DDD was qualified estimated (J) in sample JAX47-SB105-01-113006 for this noncompliance. 4,4'-DDT was not reported in samples associated with this calibration.

The continuing calibration performed on 12/21/06 at 23:29 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for 4,4'-DDT on column 1 and column 2. No action was taken for this noncompliance because no positive results were reported for 4,4'-DDT in the associated samples.

The surrogate recovery (%R) for decachlorobiphenyl (DCB) was high for samples JAX47-SB107-01-113006 and JAX47-SB106-01-113006 and low for sample JAX47-SB100-01-113006. No action was taken for this noncompliance because only one surrogate was out of specification.

The MS/MSD %Rs for sample JAX47-SB100-01-113006 were poor for 4,4'-DDE, 4,4'-DDD and 4,4'-DDT, but no action was taken because sample concentrations exceeded the spike concentration but a factor of at least 5X. Numerous other MS/MSD noncompliances on both columns were noted. All RPDs are outside of QC limits. All positive results and nondetects were estimated (J)/(UJ) for this noncompliance except 4,4'-DDE, 4,4'-DDD and 4,4'-DDT.

TO: MARK PETERSON – PAGE 3
DATE: MARCH 6, 2007

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several calibration noncompliances were noted. Several dual column confirmation noncompliances were noted. One surrogate failed criteria in three samples. The lab did not summarize MDLs on Form Is.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and Department of Defense document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM for guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Preston R Smith
Environmental Scientist

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB100-01-113006	nsample	JAX47-SB100-05-113006	nsample	JAX47-SB105-01-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610373-01RE2	lab_id	B610373-02RE1	lab_id	B610373-03RE1
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.0	Pct_Solids	94.8	Pct_Solids	95.7
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.46	J	U
4,4'-DDE	0.53		
4,4'-DDT	1.3	J	A
ALDRIN	0.00031	J	DPU
ALPHA-BHC	0.002	J	D
ALPHA-CHLORDANE	0.00049	J	CDPU
BETA-BHC	0.0035	J	DU
DELTA-BHC	0.0037	J	D
DIELDRIN	0.053	J	D
ENDOSULFAN I	0.00028	UJ	D
ENDOSULFAN II	0.00024	UJ	D
ENDOSULFAN SULFATE	0.0022	J	CDU
ENDRIN	0.0099	J	DU
ENDRIN ALDEHYDE	0.00017	UJ	CD
ENDRIN KETONE	0.00031	UJ	D
GAMMA-BHC (LINDANE)	0.0011	J	DP
GAMMA-CHLORDANE	0.12	J	DU
HEPTACHLOR	0.00024	UJ	CD
HEPTACHLOR EPOXIDE	0.024	J	DU
METHOXYCHLOR	0.038	J	D
TOXAPHENE	0.0017	UJ	D

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1		
4,4'-DDE	0.0084	J	U
4,4'-DDT	0.014	J	A
ALDRIN	0.00021	U	
ALPHA-BHC	0.022		
ALPHA-CHLORDANE	0.00049	J	CP
BETA-BHC	0.0021		
DELTA-BHC	0.013		
DIELDRIN	0.0006	J	P
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00028	UJ	C
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00025	J	CPU
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00032	J	P
GAMMA-CHLORDANE	0.0011	J	P
HEPTACHLOR	0.00024	UJ	C
HEPTACHLOR EPOXIDE	0.0012	J	P
METHOXYCHLOR	0.00035	U	
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.3	J	CU
4,4'-DDE	1.4		
4,4'-DDT	4.4	J	A
ALDRIN	0.00021	U	
ALPHA-BHC	0.00056	J	PU
ALPHA-CHLORDANE	0.52	J	C
BETA-BHC	0.011	J	U
DELTA-BHC	0.00094	J	P
DIELDRIN	0.4		
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.027	J	CU
ENDRIN	0.023	J	U
ENDRIN ALDEHYDE	0.00017	UJ	C
ENDRIN KETONE	0.0082	J	U
GAMMA-BHC (LINDANE)	0.0008	J	P
GAMMA-CHLORDANE	0.4		
HEPTACHLOR	0.012	J	C
HEPTACHLOR EPOXIDE	0.098	J	U
METHOXYCHLOR	0.036	J	U
TOXAPHENE	0.0017	U	

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB105-05-113006	nsample	JAX47-SB106-01-113006	nsample	JAX47-SB106-05-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610373-04	lab_id	B610373-05RE2	lab_id	B610373-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	88.3	Pct_Solids	97.1	Pct_Solids	95.6
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00068	J	P
4,4'-DDE	0.0029		
4,4'-DDT	0.0039	J	A
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.0014	J	P
BETA-BHC	0.00037	U	
DELTA-BHC	0.00019	U	
DIELDRIN	0.00026	J	PU
ENDOSULFAN I	0.0003	U	
ENDOSULFAN II	0.00026	U	
ENDOSULFAN SULFATE	0.0003	UJ	C
ENDRIN	0.00041	U	
ENDRIN ALDEHYDE	0.00019	UJ	C
ENDRIN KETONE	0.00034	U	
GAMMA-BHC (LINDANE)	0.00019	U	
GAMMA-CHLORDANE	0.0013	J	PU
HEPTACHLOR	0.00026	UJ	C
HEPTACHLOR EPOXIDE	0.00064	U	
METHOXYCHLOR	0.00037	U	
TOXAPHENE	0.0019	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.82	J	U
4,4'-DDE	1.6	J	U
4,4'-DDT	27	J	A
ALDRIN	0.0017	J	PU
ALPHA-BHC	0.003	J	U
ALPHA-CHLORDANE	1.7		
BETA-BHC	0.027	J	U
DELTA-BHC	0.0015	J	P
DIELDRIN	3.4		
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.0077	J	CU
ENDRIN	0.2		
ENDRIN ALDEHYDE	0.00017	UJ	C
ENDRIN KETONE	0.0013	J	PU
GAMMA-BHC (LINDANE)	0.0024		
GAMMA-CHLORDANE	1.3		
HEPTACHLOR	0.0029	J	U
HEPTACHLOR EPOXIDE	0.17		
METHOXYCHLOR	0.089	J	U
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00031	U	
4,4'-DDE	0.00035	U	
4,4'-DDT	0.0062	J	A
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.00028	U	
BETA-BHC	0.00035	U	
DELTA-BHC	0.00017	U	
DIELDRIN	0.00049	J	P
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.00028	J	P
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.00059	U	
METHOXYCHLOR	0.00035	U	
TOXAPHENE	0.0017	U	

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB107-01-113006	nsample	JAX47-SB107-05-113006
samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610373-07	lab_id	B610373-08
qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG
Pct_Solids	98.0	Pct_Solids	94.8
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.06	J	CU
4,4'-DDE	0.67		
4,4'-DDT	1.4	J	A
ALDRIN	0.0002	U	
ALPHA-BHC	0.00041	J	PU
ALPHA-CHLORDANE	0.75	J	U
BETA-BHC	0.0026		
DELTA-BHC	0.00041	J	P
DIELDRIN	0.82		
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.0033	J	CU
ENDOSULFAN SULFATE	0.0036	J	CU
ENDRIN	0.052		
ENDRIN ALDEHYDE	0.00017	UJ	C
ENDRIN KETONE	0.0014	J	PU
GAMMA-BHC (LINDANE)	0.0013	J	P
GAMMA-CHLORDANE	0.5		
HEPTACHLOR	0.0021		
HEPTACHLOR EPOXIDE	0.082	J	U
METHOXYCHLOR	0.025	J	C
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00031	U	
4,4'-DDE	0.0014	J	P
4,4'-DDT	0.0029	J	A
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.0013	J	P
BETA-BHC	0.00035	U	
DELTA-BHC	0.00017	U	
DIELDRIN	0.0015	J	P
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00017	U	
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.0012	J	P
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.00059	U	
METHOXYCHLOR	0.00035	U	
TOXAPHENE	0.0017	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-01RE1	File ID:	9LPA024-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 23:03
Solids:	95.95	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	10	0.12	DP J
72-55-9	4,4'-DDE	10	0.53	D
72-43-5	Methoxychlor	10	0.038	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-01RE2	File ID:	9LQA010-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 15:33
Solids:	95.95	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
72-54-8	4,4'-DDD	100	0.46	D	J for 4
50-29-3	4,4'-DDT	100	1.3	D	J for A

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-01	File ID:	9LJA010-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 21:35
Solids:	95.95	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0020	P
58-89-9	gamma-BHC	1	0.0011	J
319-86-8	delta-BHC	1	0.0037	
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.00031	JP
1024-57-3	Heptachlor epoxide	1	0.024	P
NA	Chlordane-alpha	1	0.00049	JP
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.053	
72-20-8	Endrin	1	0.0099	P
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0022	P
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.034	U
319-85-7	beta-BHC	1	0.0022	P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0347	0.0313	90	70 - 125	
DBC	0.0347	0.0165	48	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB100-05-113006

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610373-02 File ID: 9LJA011-0

Sampled: 11/30/06 15:46 Prepared: 12/13/06 12:00 Analyzed: 12/15/06 22:01

Solids: 94.83 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L13017 Sequence: BA00094 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.022	
58-89-9	gamma-BHC	1	0.00032	J
319-85-7	beta-BHC	1	0.0021	
319-86-8	delta-BHC	1	0.013	
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
NA	Chlordane-gamma	1	0.0011	J
NA	Chlordane-alpha	1	0.00049	J
72-55-9	4,4'-DDE	1	0.0084	
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.00060	J
72-20-8	Endrin	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.00025	JP
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U
1024-57-3	Heptachlor epoxide	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0352	0.0303	86	70 - 125	
DBC	0.0352	0.0369	105	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB100-05-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-02RE1	File ID:	9A4A004-0
Sampled:	11/30/06 15:46	Prepared:	12/13/06 12:00	Analyzed:	01/04/07 13:29
Solids:	94.83	Preparation:	EPA 3545	Initial/Final:	~~15 g / 5 mL~~
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4´-DDD	20	1.0	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB100-05-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-02RE2	File ID:	9AJA006-0
Sampled:	11/30/06 15:46	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 18:30
Solids:	94.83	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00193	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.014	J for A
72-43-5	Methoxychlor	1	0.0018	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB105-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-03RE2	File ID:	9LQA006-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 13:24
Solids:	95.66	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008

Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4'-DDE	200	1.4	D
50-29-3	4,4'-DDT	200	4.4	D J

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB105-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03	File ID:	9LJA012-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 22:27
Solids:	95.66	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
319-84-6	alpha-BHC	1	0.00056	JP	J for U
58-89-9	gamma-BHC	1	0.00080	(J)	
319-85-7	beta-BHC	1	0.011	P	R for U
319-86-8	delta-BHC	1	0.00094	(J)	
76-44-8	Heptachlor	1	0.012		J for U
309-00-2	Aldrin	1	0.0017	U	
959-98-8	Endosulfan I	1	0.0017	U	
72-20-8	Endrin	1	0.023	P	R for U
33213-65-9	Endosulfan II	1	0.0017	U	
7421-93-4	Endrin aldehyde	1	0.0017	U	
1031-07-8	Endosulfan sulfate	1	0.027	P	R for U
53494-70-5	Endrin ketone	1	0.0082	P	R for U
8001-35-2	Toxaphene	1	0.034	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0348	0.0336	97	70 - 125	
DBC	0.0348	0.0348	100	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB105-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03RE1	File ID:	9LPA022-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 22:11
Solids:	95.66	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
1024-57-3	Heptachlor epoxide	20	0.098	DP J for Y
NA	Chlordane-gamma	20	0.40	D
NA	Chlordane-alpha	20	0.52	D
60-57-1	Dieldrin	20	0.40	D
72-54-8	4,4'-DDD	20	0.30	D J for CN
72-43-5	Methoxychlor	20	0.036	DP R for Y

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB105-05-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-04RE1	File ID:	9AJA007-0
Sampled:	11/30/06 16:15	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 18:56
Solids:	88.32	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00193	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.0039	J
72-43-5	Methoxychlor	1	0.0019	U

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB105-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-04	File ID:	9LJA013-0
Sampled:	11/30/06 16:15	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 22:53
Solids:	88.32	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0019	U
58-89-9	gamma-BHC	1	0.0019	U
319-85-7	beta-BHC	1	0.0019	U
319-86-8	delta-BHC	1	0.0019	U
76-44-8	Heptachlor	1	0.0019	U UJ for C
309-00-2	Aldrin	1	0.0019	U
1024-57-3	Heptachlor epoxide	1	0.0019	U
NA	Chlordane-gamma	1	0.0013	JP J for C
NA	Chlordane-alpha	1	0.0014	(J)
72-55-9	4,4'-DDE	1	0.0029	
959-98-8	Endosulfan I	1	0.0019	U
60-57-1	Dieldrin	1	0.00026	JP R for C
72-20-8	Endrin	1	0.0019	U
72-54-8	4,4'-DDD	1	0.00068	(J)
33213-65-9	Endosulfan II	1	0.0019	U
7421-93-4	Endrin aldehyde	1	0.0019	U
1031-07-8	Endosulfan sulfate	1	0.0019	U
53494-70-5	Endrin ketone	1	0.0019	U
8001-35-2	Toxaphene	1	0.037	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0377	0.0301	80	70 - 125	
DBC	0.0377	0.0347	92	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05	File ID:	9LJA015-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 23:44
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
58-89-9	gamma-BHC	1	0.0024	
319-86-8	delta-BHC	1	0.0015	UJ
76-44-8	Heptachlor	1	0.0029	P J for 4
309-00-2	Aldrin	1	0.0017	JP R for 4
959-98-8	Endosulfan I	1	0.0017	U
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U UJ for 4 R for 4
53494-70-5	Endrin ketone	1	0.0013	JP J for 4
8001-35-2	Toxaphene	1	0.034	U
319-84-6	alpha-BHC	1	0.0020	P J for 4
319-85-7	beta-BHC	1	0.013	P R for 4
1031-07-8	Endosulfan sulfate	1	0.045	P R for 4

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0343	0.0307	89	70 - 125	
DBC	0.0343	0.148	432	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-05RE1	File ID:	9LPA021-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 21:45
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
1024-57-3	Heptachlor epoxide	20	0.17	D
72-20-8	Endrin	20	0.20	D
72-43-5	Methoxychlor	20	0.089	DP J for 4

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05RE2	File ID:	9LQA007-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 13:49
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
NA	Chlordane-gamma	200	1.3	D	
NA	Chlordane-alpha	200	1.7	D	
72-55-9	4,4'-DDE	200	1.6	D	J for 4
60-57-1	Dieldrin	200	3.4	D	
72-54-8	4,4'-DDD	200	0.82	D	J for 4

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-05RE3	File ID:	9LQA011-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 15:58
Solids:	97.06	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	2000	27	D J

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB106-05-113006

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610373-06 File ID: 9LQA004.D

Sampled: 11/30/06 16:29 Prepared: 12/13/06 12:00 Analyzed: 12/22/06 12:06

Solids: 95.64 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L13017 Sequence: BA00094 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.00028	J
NA	Chlordane-alpha	1	0.0017	U
72-55-9	4,4'-DDE	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.00049	J
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0017	U
33213-65-9	Endosulfan II	1	0.0017	U
50-29-3	4,4'-DDT	1	0.0062	J for A
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0349	0.0335	96	70 - 125	
DBC	0.0349	0.0346	99	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB107-01-113006

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610373-07 File ID: 9LJA017-0

Sampled: 11/30/06 16:38 Prepared: 12/13/06 12:00 Analyzed: 12/16/06 00:36

Solids: 98.00 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L13017 Sequence: BA00094 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00041	JP
58-89-9	gamma-BHC	1	0.0013	J
319-85-7	beta-BHC	1	0.0026	
319-86-8	delta-BHC	1	0.00041	J
76-44-8	Heptachlor	1	0.0021	
309-00-2	Aldrin	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
72-20-8	Endrin	1	0.052	
72-54-8	4,4´-DDD	1	0.060	
33213-65-9	Endosulfan II	1	0.0033	P
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.025	
1031-07-8	Endosulfan sulfate	1	0.0036	P
53494-70-5	Endrin ketone	1	0.0014	JP
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0340	0.0305	90	70 - 125	
DBC	0.0340	0.0636	187	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB107-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-07RE1	File ID:	9AMA004A-0
Sampled:	11/30/06 16:38	Prepared:	12/13/06 12:00	Analyzed:	01/18/07 14:23
Solids:	98.00	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
1024-57-3	Heptachlor epoxide	20	0.082	DP J	for 4
NA	Chlordane-gamma	20	0.50	D	
NA	Chlordane-alpha	20	0.75	DP J	for 4
72-55-9	4,4'-DDE	20	0.67	D	
60-57-1	Dieldrin	20	0.82	D	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB107-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-07RE2	File ID:	9AMA005A-0
Sampled:	11/30/06 16:38	Prepared:	12/13/06 12:00	Analyzed:	01/18/07 14:49
Solids:	98.00	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	200	1.4	D J

for A

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB107-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-08	File ID:	9LQA005-0
Sampled:	11/30/06 16:44	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 12:58
Solids:	94.85	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.0012	U
NA	Chlordane-alpha	1	0.0013	J
72-55-9	4,4'-DDE	1	0.0014	J
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0015	J
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
50-29-3	4,4'-DDT	1	0.0029	J for A
7421-93-4	Endrin aldehyde	1	0.0018	U
72-43-5	Methoxychlor	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0351	0.0322	91	70 - 125	
DBC	0.0351	0.0331	94	55 - 130	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- DBC surrogate recoveries for JAX47-SB100-01-113006, JAX47-SB106-01-113006, JAX47-SB107-01-113006 were outside the DoD QSM control limits due to sample matrix.
- Continuing Calibration Verification Standard 9LJA014 result for 4,4-DDT and Methoxychlor were outside and below the DoD QSM. None of the samples had any reportable data associated with this standard, however the laboratory control standard, matrix spike, matrix spike duplicate and associate batch blank were reported using this continuing calibration verification standard. All the quality control was within the DoD QSM control limits and the batch blank ran after a passing calibration verification standard.
- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits due to the sample matrix.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.23 13:58:06 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By: **Chuck Metz**	Date: 12/01/2006	Time: 15:50	Received By: **Hand Deliver**	Date: 12/01/2006	Time: 16:50
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-011

Lab Sample ID	Client Sample ID
B610373-01	JAX47-SB100-01-113006
B610373-02	JAX47-SB100-05-113006
B610373-03	JAX47-SB105-01-113006
B610373-04	JAX47-SB105-05-113006
B610373-05	JAX47-SB106-01-113006
B610373-06	JAX47-SB106-05-113006
B610373-07	JAX47-SB107-01-113006
B610373-08	JAX47-SB107-05-113006

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-011

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB100-01-113006	B610373-01
JAX47-SB100-01-113006	B610373-01RE1
JAX47-SB100-01-113006	B610373-01RE2
JAX47-SB100-05-113006	B610373-02
JAX47-SB100-05-113006	B610373-02RE1
JAX47-SB100-05-113006	B610373-02RE2
JAX47-SB105-01-113006	B610373-03
JAX47-SB105-01-113006	B610373-03RE1
JAX47-SB105-01-113006	B610373-03RE2
JAX47-SB105-05-113006	B610373-04
JAX47-SB105-05-113006	B610373-04RE1
JAX47-SB106-01-113006	B610373-05
JAX47-SB106-01-113006	B610373-05RE1
JAX47-SB106-01-113006	B610373-05RE2
JAX47-SB106-01-113006	B610373-05RE3
JAX47-SB106-05-113006	B610373-06
JAX47-SB107-01-113006	B610373-07
JAX47-SB107-01-113006	B610373-07RE1
JAX47-SB107-01-113006	B610373-07RE2
JAX47-SB107-05-113006	B610373-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.23 15:43:01 -05'00'

Name: Christina Tompkins

Date: 01/20/07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-011

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.00013	0.0017	mg/kg
gamma-BHC	0.00016	0.0017	mg/kg
beta-BHC	0.00033	0.0017	mg/kg
delta-BHC	0.00016	0.0017	mg/kg
Heptachlor	0.00023	0.0017	mg/kg
Aldrin	0.00020	0.0017	mg/kg
Heptachlor epoxide	0.00056	0.0017	mg/kg
Chlordane-gamma	0.00023	0.0017	mg/kg
Chlordane-alpha	0.00026	0.0017	mg/kg
4,4´-DDE	0.00033	0.0017	mg/kg
Endosulfan I	0.00026	0.0017	mg/kg
Dieldrin	0.00023	0.0017	mg/kg
Endrin	0.00036	0.0017	mg/kg
4,4´-DDD	0.00030	0.0017	mg/kg
Endosulfan II	0.00023	0.0017	mg/kg
4,4´-DDT	0.00013	0.0017	mg/kg
Endrin aldehyde	0.00016	0.0017	mg/kg
Methoxychlor	0.00033	0.0017	mg/kg
Endosulfan sulfate	0.00026	0.0017	mg/kg
Endrin ketone	0.00030	0.0017	mg/kg
Toxaphene	0.0016	0.033	mg/kg
alpha-BHC [2C]	0.00013	0.0017	mg/kg
gamma-BHC [2C]	0.00016	0.0017	mg/kg
beta-BHC [2C]	0.00033	0.0017	mg/kg
delta-BHC [2C]	0.00016	0.0017	mg/kg
Heptachlor [2C]	0.00023	0.0017	mg/kg
Aldrin [2C]	0.00020	0.0017	mg/kg
Heptachlor epoxide [2C]	0.00056	0.0017	mg/kg
Chlordane-gamma [2C]	0.00023	0.0017	mg/kg
Chlordane-alpha [2C]	0.00026	0.0017	mg/kg
4,4'-DDE [2C]	0.00033	0.0017	mg/kg
Endosulfan I [2C]	0.00026	0.0017	mg/kg
Dieldrin [2C]	0.00023	0.0017	mg/kg
Endrin [2C]	0.00036	0.0017	mg/kg
4,4'-DDD [2C]	0.00030	0.0017	mg/kg
Endosulfan II [2C]	0.00023	0.0017	mg/kg
4,4'-DDT [2C]	0.00013	0.0017	mg/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-011

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.00016	0.0017	mg/kg
Methoxychlor [2C]	0.00033	0.0017	mg/kg
Endosulfan sulfate [2C]	0.00026	0.0017	mg/kg
Endrin ketone [2C]	0.00030	0.0017	mg/kg
Toxaphene [2C]	0.0016	0.033	mg/kg

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L13017 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L13017-BLK1	9LJB004-0	12/13/06 12:00	
Blank	6L13017-BLK1	9LJA004-0	12/13/06 12:00	
LCS	6L13017-BS1	9LJB005-0	12/13/06 12:00	
LCS	6L13017-BS1	9LJA005-0	12/13/06 12:00	
JAX47-SB100-01-113006	6L13017-MS1	9LJB006-0	12/13/06 12:00	
JAX47-SB100-01-113006	6L13017-MS1	9LJA006-0	12/13/06 12:00	
JAX47-SB100-01-113006	6L13017-MSD1	9LJA007-0	12/13/06 12:00	
JAX47-SB100-01-113006	6L13017-MSD1	9LJB007-0	12/13/06 12:00	
JAX47-SB100-01-113006	B610373-01	9LJA010-0	12/13/06 12:00	MS/MSD sample
JAX47-SB100-01-113006	B610373-01	9LJB010-0	12/13/06 12:00	MS/MSD sample
JAX47-SB100-01-113006	B610373-01RE1	9LPA024-0	12/13/06 12:00	MS/MSD sample
JAX47-SB100-01-113006	B610373-01RE1	9LPB024-0	12/13/06 12:00	MS/MSD sample
JAX47-SB100-01-113006	B610373-01RE2	9LQA010-0	12/13/06 12:00	MS/MSD sample
JAX47-SB100-01-113006	B610373-01RE2	9LQB010-0	12/13/06 12:00	MS/MSD sample
JAX47-SB100-05-113006	B610373-02	9LJA011-0	12/13/06 12:00	
JAX47-SB100-05-113006	B610373-02	9LJB011-0	12/13/06 12:00	
JAX47-SB100-05-113006	B610373-02RE1	9A4B004-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB100-05-113006	B610373-02RE1	9A4A004-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB100-05-113006	B610373-02RE2	9AJA006-0	12/13/06 12:00	Added 1/16/07 by JBH
JAX47-SB100-05-113006	B610373-02RE2	9AJB006-0	12/13/06 12:00	Added 1/16/07 by JBH
JAX47-SB105-01-113006	B610373-03	9LJA012-0	12/13/06 12:00	
JAX47-SB105-01-113006	B610373-03	9LJB012-0	12/13/06 12:00	
JAX47-SB105-01-113006	B610373-03RE1	9LPA022-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB105-01-113006	B610373-03RE1	9LPB022-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB105-01-113006	B610373-03RE2	9LQB006-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB105-01-113006	B610373-03RE2	9LQA006-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB105-05-113006	B610373-04	9LJB013-0	12/13/06 12:00	
JAX47-SB105-05-113006	B610373-04	9LJA013-0	12/13/06 12:00	
JAX47-SB105-05-113006	B610373-04RE1	9AJB007-0	12/13/06 12:00	Added 1/16/07 by JBH
JAX47-SB105-05-113006	B610373-04RE1	9AJA007-0	12/13/06 12:00	Added 1/16/07 by JBH
JAX47-SB106-01-113006	B610373-05	9LJB015-0	12/13/06 12:00	
JAX47-SB106-01-113006	B610373-05	9LJA015-0	12/13/06 12:00	
JAX47-SB106-01-113006	B610373-05RE1	9LPA021-0	12/13/06 12:00	Added 12/22/06 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L13017 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB106-01-113006	B610373-05RE1	9LPB021-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB106-01-113006	B610373-05RE2	9LQA007-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB106-01-113006	B610373-05RE2	9LQB007-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB106-01-113006	B610373-05RE3	9LQA011-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB106-01-113006	B610373-05RE3	9LQB011-0	12/13/06 12:00	Added 12/22/06 by JBH
JAX47-SB106-05-113006	B610373-06	9LQA004-0	12/13/06 12:00	
JAX47-SB106-05-113006	B610373-06	9LQB004-0	12/13/06 12:00	
JAX47-SB107-01-113006	B610373-07	9LJB017-0	12/13/06 12:00	
JAX47-SB107-01-113006	B610373-07	9LJA017-0	12/13/06 12:00	
JAX47-SB107-01-113006	B610373-07RE1	9AMA004A-0	12/13/06 12:00	Added 1/18/07 by JBH
JAX47-SB107-01-113006	B610373-07RE1	9AMB004A-0	12/13/06 12:00	Added 1/18/07 by JBH
JAX47-SB107-01-113006	B610373-07RE2	9AMA005A-0	12/13/06 12:00	Added 1/18/07 by JBH
JAX47-SB107-01-113006	B610373-07RE2	9AMB005A-0	12/13/06 12:00	Added 1/18/07 by JBH
JAX47-SB107-05-113006	B610373-08	9LQA005-0	12/13/06 12:00	
JAX47-SB107-05-113006	B610373-08	9LQB005-0	12/13/06 12:00	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L13017-BLK1	File ID:	9LJA004-0
Prepared:	12/13/06 12:00	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/15/06 19:00	Instrument:	JSVGCECD2		
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4′-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4′-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4′-DDT	0.000167	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.0017	U
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	6L13017-BLK1	File ID:	9LJB004-0
Prepared:	12/13/06 12:00	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/15/06 19:00	Instrument:	JSVGCECD2		
Batch:	6L13017	Sequence:	BA00094	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.0017	U
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.000133	J
7421-93-4	Endrin aldehyde [2C]	0.000567	J
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0288	86	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.0286	86	70 - 125	
DBC	0.0333	0.0302	91	55 - 130	
DBC [2C]	0.0333	0.0304	91	55 - 130	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00094	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L13017-BLK1)			Lab File ID: 9LJA004-0		Analyzed: 12/15/06 19:00			
2,4,5,6-TCMX	0.0333	86	70 - 125	6.817	6.848286	-0.0313	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	86	70 - 125	6.536	6.564286	-0.0283	+/-0.3	
DBC	0.0333	91	55 - 130	14.076	14.10214	-0.0261	+/-0.3	
DBC [2C]	0.0333	91	55 - 130	13.884	13.90914	-0.0251	+/-0.3	
JAX47-SB100-01-113006 (B610373-01)			Lab File ID: 9LJA010-0		Analyzed: 12/15/06 21:35			
2,4,5,6-TCMX	0.0347	90	70 - 125	6.818	6.848286	-0.0303	+/-0.3	
2,4,5,6-TCMX [2C]	0.0347	87	70 - 125	6.537	6.564286	-0.0273	+/-0.3	
DBC	0.0347	48	55 - 130	14.126	14.10214	0.0239	+/-0.3	*
DBC [2C]	0.0347	108	55 - 130	13.886	13.90914	-0.0231	+/-0.3	
JAX47-SB100-05-113006 (B610373-02)			Lab File ID: 9LJA011-0		Analyzed: 12/15/06 22:01			
2,4,5,6-TCMX	0.0352	86	70 - 125	6.818	6.848286	-0.0303	+/-0.3	
2,4,5,6-TCMX [2C]	0.0352	84	70 - 125	6.537	6.564286	-0.0273	+/-0.3	
DBC	0.0352	105	55 - 130	14.077	14.10214	-0.0251	+/-0.3	
DBC [2C]	0.0352	103	55 - 130	13.886	13.90914	-0.0231	+/-0.3	
JAX47-SB105-01-113006 (B610373-03)			Lab File ID: 9LJA012-0		Analyzed: 12/15/06 22:27			
2,4,5,6-TCMX	0.0348	97	70 - 125	6.82	6.848286	-0.0283	+/-0.3	
2,4,5,6-TCMX [2C]	0.0348	91	70 - 125	6.54	6.564286	-0.0243	+/-0.3	
DBC	0.0348	100	55 - 130	14.124	14.10214	0.0219	+/-0.3	
DBC [2C]	0.0348	157	55 - 130	13.888	13.90914	-0.0211	+/-0.3	*
JAX47-SB105-05-113006 (B610373-04)			Lab File ID: 9LJA013-0		Analyzed: 12/15/06 22:53			
2,4,5,6-TCMX	0.0377	80	70 - 125	6.82	6.848286	-0.0283	+/-0.3	
2,4,5,6-TCMX [2C]	0.0377	82	70 - 125	6.54	6.564286	-0.0243	+/-0.3	
DBC	0.0377	92	55 - 130	14.078	14.10214	-0.0241	+/-0.3	
DBC [2C]	0.0377	90	55 - 130	13.887	13.90914	-0.0221	+/-0.3	
JAX47-SB106-01-113006 (B610373-05)			Lab File ID: 9LJA015-0		Analyzed: 12/15/06 23:44			
2,4,5,6-TCMX	0.0343	89	70 - 125	6.821	6.848286	-0.0273	+/-0.3	
2,4,5,6-TCMX [2C]	0.0343	107	70 - 125	6.54	6.564286	-0.0243	+/-0.3	
DBC	0.0343	432	55 - 130	14.082	14.10214	-0.0201	+/-0.3	*
DBC [2C]	0.0343	122	55 - 130	13.888	13.90914	-0.0211	+/-0.3	
JAX47-SB107-01-113006 (B610373-07)			Lab File ID: 9LJA017-0		Analyzed: 12/16/06 00:36			
2,4,5,6-TCMX	0.0340	90	70 - 125	6.821	6.848286	-0.0273	+/-0.3	
2,4,5,6-TCMX [2C]	0.0340	88	70 - 125	6.54	6.564286	-0.0243	+/-0.3	
DBC	0.0340	187	55 - 130	14.08	14.10214	-0.0221	+/-0.3	*
DBC [2C]	0.0340	107	55 - 130	13.887	13.90914	-0.0221	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00094	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB106-05-113006 (B610373-06)			Lab File ID: 9LQA004-0		Analyzed: 12/22/06 12:06			
2,4,5,6-TCMX	0.0349	96	70 - 125	6.714	6.848286	-0.1343	+/-0.3	
2,4,5,6-TCMX [2C]	0.0349	94	70 - 125	6.446	6.564286	-0.1183	+/-0.3	
DBC	0.0349	99	55 - 130	13.978	14.10214	-0.1241	+/-0.3	
DBC [2C]	0.0349	100	55 - 130	13.799	13.90914	-0.1101	+/-0.3	
JAX47-SB107-05-113006 (B610373-08)			Lab File ID: 9LQA005-0		Analyzed: 12/22/06 12:58			
2,4,5,6-TCMX	0.0351	91	70 - 125	6.716	6.848286	-0.1323	+/-0.3	
2,4,5,6-TCMX [2C]	0.0351	91	70 - 125	6.446	6.564286	-0.1183	+/-0.3	
DBC	0.0351	94	55 - 130	13.98	14.10214	-0.1221	+/-0.3	
DBC [2C]	0.0351	95	55 - 130	13.801	13.90914	-0.1081	+/-0.3	

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L13017
Laboratory ID: 6L13017-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0273	82	60 - 125
gamma-BHC	0.0333	0.0277	83	60 - 125
beta-BHC	0.0333	0.0289	87	60 - 125
delta-BHC	0.0333	0.0278	83	55 - 130
Heptachlor	0.0333	0.0268	80	50 - 140
Aldrin	0.0333	0.0271	81	45 - 140
Heptachlor epoxide	0.0333	0.0269	81	65 - 130
Chlordane-gamma	0.0333	0.0273	82	65 - 125
Chlordane-alpha	0.0333	0.0272	82	65 - 120
4,4'-DDE	0.0333	0.0275	82	70 - 125
Endosulfan I	0.0333	0.0270	81	15 - 135
Dieldrin	0.0333	0.0278	83	65 - 125
Endrin	0.0333	0.0263	79	60 - 135
4,4'-DDD	0.0333	0.0280	84	30 - 135
Endosulfan II	0.0333	0.0276	83	35 - 140
4,4'-DDT	0.0333	0.0274	82	45 - 140
Endrin aldehyde	0.0333	0.0249	75	35 - 145
Methoxychlor	0.0333	0.0264	79	55 - 145
Endosulfan sulfate	0.0333	0.0280	84	60 - 135
Endrin ketone	0.0333	0.0284	85	65 - 135
alpha-BHC [2C]	0.0333	0.0274	82	60 - 125
gamma-BHC [2C]	0.0333	0.0278	83	60 - 125
beta-BHC [2C]	0.0333	0.0288	86	60 - 125
delta-BHC [2C]	0.0333	0.0277	83	55 - 130
Heptachlor [2C]	0.0333	0.0269	81	50 - 140
Aldrin [2C]	0.0333	0.0273	82	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0273	82	65 - 130
Chlordane-gamma [2C]	0.0333	0.0274	82	65 - 125
Chlordane-alpha [2C]	0.0333	0.0271	81	65 - 120
4,4'-DDE [2C]	0.0333	0.0278	83	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L13017	Laboratory ID:	6L13017-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0269	81	15 - 135
Dieldrin [2C]	0.0333	0.0277	83	65 - 125
Endrin [2C]	0.0333	0.0263	79	60 - 135
4,4'-DDD [2C]	0.0333	0.0280	84	30 - 135
Endosulfan II [2C]	0.0333	0.0276	83	35 - 140
4,4'-DDT [2C]	0.0333	0.0276	83	45 - 140
Endrin aldehyde [2C]	0.0333	0.0251	75	35 - 145
Methoxychlor [2C]	0.0333	0.0264	79	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0283	85	60 - 135
Endrin ketone [2C]	0.0333	0.0283	85	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L13017	Laboratory ID:	6L13017-MS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0347	0.00198	0.0324	88	60 - 125
gamma-BHC	0.0347	0.00115	0.0320	89	60 - 125
beta-BHC	0.0347	0.00351	0.000521	-9 *	60 - 125
delta-BHC	0.0347	0.00372	0.0361	93	55 - 130
Heptachlor	0.0347	ND	0.0300	86	50 - 140
Aldrin	0.0347	0.000313	0.000556	0.7 *	45 - 140
Heptachlor epoxide	0.0347	0.0243	0.0557	90	65 - 130
Chlordane-gamma	0.0347	0.106	0.132	76	65 - 125
Chlordane-alpha	0.0347	0.000486	0.000591	0.3 *	65 - 120
4,4'-DDE	0.0347	0.178	0.176	-6 *	70 - 125
Endosulfan I	0.0347	ND	0.00518	15	15 - 135
Dieldrin	0.0347	0.0525	0.0844	92	65 - 125
Endrin	0.0347	0.00994	0.104	272 *	60 - 135
4,4'-DDD	0.0347	0.222	0.0241	-569 *	30 - 135
Endosulfan II	0.0347	ND	0.0380	109	35 - 140
4,4'-DDT	0.0347	0.239	0.0154	-642 *	45 - 140
Endrin aldehyde	0.0347	ND	0.0448	129	35 - 145
Methoxychlor	0.0347	0.0294	0.0722	123	55 - 145
Endosulfan sulfate	0.0347	0.00215	0.00330	3 *	60 - 135
Endrin ketone	0.0347	ND	0.000347	1 *	65 - 135
alpha-BHC [2C]	0.0347	0.00174	0.0313	85	60 - 125
gamma-BHC [2C]	0.0347	0.00132	0.0303	84	60 - 125
beta-BHC [2C]	0.0347	0.00219	0.0319	85	60 - 125
delta-BHC [2C]	0.0347	0.00323	0.0344	90	55 - 130
Heptachlor [2C]	0.0347	ND	0.0289	83	50 - 140
Aldrin [2C]	0.0347	0.000486	0.0305	86	45 - 140
Heptachlor epoxide [2C]	0.0347	0.000973	0.000799	-0.5 *	65 - 130
Chlordane-gamma [2C]	0.0347	0.117	0.124	21 *	65 - 125
Chlordane-alpha [2C]	0.0347	0.0707	0.110	115	65 - 120
4,4'-DDE [2C]	0.0347	0.161	0.156	-14 *	70 - 125
Endosulfan I [2C]	0.0347	ND	0.0474	136 *	15 - 135
Dieldrin [2C]	0.0347	0.0522	0.0757	68	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB100-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L13017
Laboratory ID: 6L13017-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0347	0.0183	0.0571	112	60 - 135
4,4'-DDD [2C]	0.0347	0.0157	0.0157	-0.1 *	30 - 135
Endosulfan II [2C]	0.0347	ND	0.0524	151 *	35 - 140
4,4'-DDT [2C]	0.0347	0.236	0.238	5 *	45 - 140
Endrin aldehyde [2C]	0.0347	ND	0.0484	139	35 - 145
Methoxychlor [2C]	0.0347	0.00101	0.0389	109	55 - 145
Endosulfan sulfate [2C]	0.0347	0.00389	0.0371	96	60 - 135
Endrin ketone [2C]	0.0347	0.0209	0.0401	55 *	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0347	0.0174	44 *	61 *	30	60 - 125
gamma-BHC	0.0347	0.0174	47 *	59 *	30	60 - 125
beta-BHC	0.0347	0.0183	43 *	189 *	30	60 - 125
delta-BHC	0.0347	0.0185	42 *	65 *	30	55 - 130
Heptachlor	0.0347	0.0165	47 *	58 *	30	50 - 140
Aldrin	0.0347	0.0161	45	187 *	30	45 - 140
Heptachlor epoxide	0.0347	0.0273	9 *	68 *	30	65 - 130
Chlordane-gamma	0.0347	0.0722	-96 *	59 *	30	65 - 125
Chlordane-alpha	0.0347	ND	-1 *		30	65 - 120
4,4'-DDE	0.0347	0.140	-110 *	23	30	70 - 125
Endosulfan I	0.0347	0.00198	6 *	89 *	30	15 - 135
Dieldrin	0.0347	0.0416	-31 *	68 *	30	65 - 125
Endrin	0.0347	0.0475	108	75 *	30	60 - 135
4,4'-DDD	0.0347	0.0119	-604 *	68 *	30	30 - 135
Endosulfan II	0.0347	0.0201	58	62 *	30	35 - 140
4,4'-DDT	0.0347	0.208	-88 *	172 *	30	45 - 140
Endrin aldehyde	0.0347	0.0227	65	66 *	30	35 - 145
Methoxychlor	0.0347	0.0344	14 *	71 *	30	55 - 145
Endosulfan sulfate	0.0347	0.00142	-2 *	79 *	30	60 - 135
Endrin ketone	0.0347	0.0187	54 *	193 *	30	65 - 135
alpha-BHC [2C]	0.0347	0.0171	44 *	59 *	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L13017	Laboratory ID:	6L13017-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB100-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD #		QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0347	0.0170	45	*	57	*	30	60 - 125
beta-BHC [2C]	0.0347	0.0176	44	*	58	*	30	60 - 125
delta-BHC [2C]	0.0347	0.0182	43	*	62	*	30	55 - 130
Heptachlor [2C]	0.0347	0.0160	46	*	57	*	30	50 - 140
Aldrin [2C]	0.0347	0.0169	47		57	*	30	45 - 140
Heptachlor epoxide [2C]	0.0347	ND	-3	*			30	65 - 130
Chlordane-gamma [2C]	0.0347	0.0722	-130	*	53	*	30	65 - 125
Chlordane-alpha [2C]	0.0347	0.0539	-48	*	69	*	30	65 - 120
4,4'-DDE [2C]	0.0347	0.127	-96	*	20		30	70 - 125
Endosulfan I [2C]	0.0347	0.0207	60		79	*	30	15 - 135
Dieldrin [2C]	0.0347	0.0391	-38	*	64	*	30	65 - 125
Endrin [2C]	0.0347	0.0291	31	*	65	*	30	60 - 135
4,4'-DDD [2C]	0.0347	0.00726	-24	*	73	*	30	30 - 135
Endosulfan II [2C]	0.0347	0.0260	75		67	*	30	35 - 140
4,4'-DDT [2C]	0.0347	0.200	-102	*	17		30	45 - 140
Endrin aldehyde [2C]	0.0347	0.0208	60		80	*	30	35 - 145
Methoxychlor [2C]	0.0347	0.0192	52	*	68	*	30	55 - 145
Endosulfan sulfate [2C]	0.0347	0.0199	46	*	60	*	30	60 - 135
Endrin ketone [2C]	0.0347	0.0225	5	*	56	*	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00094	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00094-IBL4	9A4A001-0	01/04/07 12:07
Instrument Blank	BA00094-IBL4	9A4B001-0	01/04/07 12:07
Performance Mix	BA00094-PEM4	9A4A002-0	01/04/07 12:33
Performance Mix	BA00094-PEM4	9A4B002-0	01/04/07 12:33
Calibration Check	BA00094-CCV8	9A4B003-0	01/04/07 12:58
Calibration Check	BA00094-CCV8	9A4A003-0	01/04/07 12:58
JAX47-SB100-05-113006	B610373-02RE1	9A4A004-0	01/04/07 13:29
JAX47-SB100-05-113006	B610373-02RE1	9A4B004-0	01/04/07 13:29
Calibration Check	BA00094-CCV9	9A4B005A-0	01/04/07 16:03
Calibration Check	BA00094-CCV9	9A4A005A-0	01/04/07 16:03
Instrument Blank	BA00094-IBL5	9AMB001-0	01/18/07 10:54
Instrument Blank	BA00094-IBL5	9AMA001-0	01/18/07 10:54
Performance Mix	BA00094-PEM5	9AMA002-0	01/18/07 11:20
Performance Mix	BA00094-PEM5	9AMB002-0	01/18/07 11:20
Calibration Check	BA00094-CCVA	9AMA003-0	01/18/07 11:45
Calibration Check	BA00094-CCVA	9AMB003-0	01/18/07 11:45
Calibration Check	BA00094-CCVB	9AMB007-0	01/18/07 13:54
Calibration Check	BA00094-CCVB	9AMA007-0	01/18/07 13:54
JAX47-SB107-01-113006	B610373-07RE1	9AMB004A-0	01/18/07 14:23
JAX47-SB107-01-113006	B610373-07RE1	9AMA004A-0	01/18/07 14:23
JAX47-SB107-01-113006	B610373-07RE2	9AMB005A-0	01/18/07 14:49
JAX47-SB107-01-113006	B610373-07RE2	9AMA005A-0	01/18/07 14:49
Instrument Blank	BA00094-IBL1	9LJA001A-0	12/15/06 17:27
Instrument Blank	BA00094-IBL1	9LJB001A-0	12/15/06 17:27
Performance Mix	BA00094-PEM1	9LJA002A-0	12/15/06 18:08
Performance Mix	BA00094-PEM1	9LJB002A-0	12/15/06 18:08
Calibration Check	BA00094-CCV1	9LJA003B-0	12/15/06 18:34
Calibration Check	BA00094-CCV1	9LJB003B-0	12/15/06 18:34
Blank	6L13017-BLK1	9LJB004-0	12/15/06 19:00
Blank	6L13017-BLK1	9LJA004-0	12/15/06 19:00
LCS	6L13017-BS1	9LJB005-0	12/15/06 19:25
LCS	6L13017-BS1	9LJA005-0	12/15/06 19:25

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00094	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB100-01-113006	6L13017-MS1	9LJA006-0	12/15/06 19:51
JAX47-SB100-01-113006	6L13017-MS1	9LJB006-0	12/15/06 19:51
JAX47-SB100-01-113006	6L13017-MSD1	9LJB007-0	12/15/06 20:17
JAX47-SB100-01-113006	6L13017-MSD1	9LJA007-0	12/15/06 20:17
JAX47-SB100-01-113006	B610373-01	9LJA010-0	12/15/06 21:35
JAX47-SB100-01-113006	B610373-01	9LJB010-0	12/15/06 21:35
JAX47-SB100-05-113006	B610373-02	9LJB011-0	12/15/06 22:01
JAX47-SB100-05-113006	B610373-02	9LJA011-0	12/15/06 22:01
JAX47-SB105-01-113006	B610373-03	9LJB012-0	12/15/06 22:27
JAX47-SB105-01-113006	B610373-03	9LJA012-0	12/15/06 22:27
JAX47-SB105-05-113006	B610373-04	9LJA013-0	12/15/06 22:53
JAX47-SB105-05-113006	B610373-04	9LJB013-0	12/15/06 22:53
Calibration Check	BA00094-CCV2	9LJB014-0	12/15/06 23:19
Calibration Check	BA00094-CCV2	9LJA014-0	12/15/06 23:19
JAX47-SB106-01-113006	B610373-05	9LJA015-0	12/15/06 23:44
JAX47-SB106-01-113006	B610373-05	9LJB015-0	12/15/06 23:44
JAX47-SB107-01-113006	B610373-07	9LJA017-0	12/16/06 00:36
JAX47-SB107-01-113006	B610373-07	9LJB017-0	12/16/06 00:36
Calibration Check	BA00094-CCV3	9LJA019-0	12/16/06 01:28
Calibration Check	BA00094-CCV3	9LJB019-0	12/16/06 01:28
Instrument Blank	BA00094-IBL2	9LPA001-0	12/21/06 13:08
Instrument Blank	BA00094-IBL2	9LPB001-0	12/21/06 13:08
Performance Mix	BA00094-PEM2	9LPA002-0	12/21/06 13:34
Performance Mix	BA00094-PEM2	9LPB002-0	12/21/06 13:34
Calibration Check	BA00094-CCV4	9LPB020-0	12/21/06 21:20
Calibration Check	BA00094-CCV4	9LPA020-0	12/21/06 21:20
JAX47-SB106-01-113006	B610373-05RE1	9LPA021-0	12/21/06 21:45
JAX47-SB106-01-113006	B610373-05RE1	9LPB021-0	12/21/06 21:45
JAX47-SB105-01-113006	B610373-03RE1	9LPB022-0	12/21/06 22:11
JAX47-SB105-01-113006	B610373-03RE1	9LPA022-0	12/21/06 22:11
JAX47-SB100-01-113006	B610373-01RE1	9LPB024-0	12/21/06 23:03
JAX47-SB100-01-113006	B610373-01RE1	9LPA024-0	12/21/06 23:03

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00094	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	BA00094-CCV5	9LPA025-0	12/21/06 23:29
Calibration Check	BA00094-CCV5	9LPB025-0	12/21/06 23:29
Instrument Blank	BA00094-IBL3	9LQA001-0	12/22/06 10:49
Instrument Blank	BA00094-IBL3	9LQB001-0	12/22/06 10:49
Performance Mix	BA00094-PEM3	9LQA002-0	12/22/06 11:14
Performance Mix	BA00094-PEM3	9LQB002-0	12/22/06 11:14
Calibration Check	BA00094-CCV6	9LQA003-0	12/22/06 11:40
Calibration Check	BA00094-CCV6	9LQB003-0	12/22/06 11:40
JAX47-SB106-05-113006	B610373-06	9LQA004-0	12/22/06 12:06
JAX47-SB106-05-113006	B610373-06	9LQB004-0	12/22/06 12:06
JAX47-SB107-05-113006	B610373-08	9LQA005-0	12/22/06 12:58
JAX47-SB107-05-113006	B610373-08	9LQB005-0	12/22/06 12:58
JAX47-SB105-01-113006	B610373-03RE2	9LQB006-0	12/22/06 13:24
JAX47-SB105-01-113006	B610373-03RE2	9LQA006-0	12/22/06 13:24
JAX47-SB106-01-113006	B610373-05RE2	9LQB007-0	12/22/06 13:49
JAX47-SB106-01-113006	B610373-05RE2	9LQA007-0	12/22/06 13:49
JAX47-SB100-01-113006	B610373-01RE2	9LQA010-0	12/22/06 15:33
JAX47-SB100-01-113006	B610373-01RE2	9LQB010-0	12/22/06 15:33
JAX47-SB106-01-113006	B610373-05RE3	9LQA011-0	12/22/06 15:58
JAX47-SB106-01-113006	B610373-05RE3	9LQB011-0	12/22/06 15:58
Calibration Check	BA00094-CCV7	9LQB012-0	12/22/06 16:24
Calibration Check	BA00094-CCV7	9LQA012-0	12/22/06 16:24

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00193	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00193-IBL1	9AJB001B-0	01/15/07 16:21
Instrument Blank	BA00193-IBL1	9AJA001B-0	01/15/07 16:21
Performance Mix	BA00193-PEM1	9AJB002B-0	01/15/07 16:47
Performance Mix	BA00193-PEM1	9AJA002B-0	01/15/07 16:47
Calibration Check	BA00193-CCV1	9AJB003B-0	01/15/07 17:12
Calibration Check	BA00193-CCV1	9AJA003B-0	01/15/07 17:12
JAX47-SB100-05-113006	B610373-02RE2	9AJB006-0	01/15/07 18:30
JAX47-SB100-05-113006	B610373-02RE2	9AJA006-0	01/15/07 18:30
JAX47-SB105-05-113006	B610373-04RE1	9AJB007-0	01/15/07 18:56
JAX47-SB105-05-113006	B610373-04RE1	9AJA007-0	01/15/07 18:56
Calibration Check	BA00193-CCV2	9AJB013-0	01/15/07 21:31
Calibration Check	BA00193-CCV2	9AJA013-0	01/15/07 21:31

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	O
JAX47-SB100-01-113006	11/30/06 15:35	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/15/06 21:35	2.00	40.00	
JAX47-SB100-01-113006	11/30/06 15:35	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/21/06 23:03	8.00	40.00	
JAX47-SB100-01-113006	11/30/06 15:35	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/22/06 15:33	9.00	40.00	
JAX47-SB100-05-113006	11/30/06 15:46	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/15/06 22:01	2.00	40.00	
JAX47-SB100-05-113006	11/30/06 15:46	12/01/06 16:50	12/13/06 12:00	13.00	14.00	01/04/07 13:29	22.00	40.00	
JAX47-SB100-05-113006	11/30/06 15:46	12/01/06 16:50	12/13/06 12:00	13.00	14.00	01/15/07 18:30	33.00	40.00	
JAX47-SB105-01-113006	11/30/06 16:10	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/15/06 22:27	2.00	40.00	
JAX47-SB105-01-113006	11/30/06 16:10	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/21/06 22:11	8.00	40.00	
JAX47-SB105-01-113006	11/30/06 16:10	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/22/06 13:24	9.00	40.00	
JAX47-SB105-05-113006	11/30/06 16:15	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/15/06 22:53	2.00	40.00	
JAX47-SB105-05-113006	11/30/06 16:15	12/01/06 16:50	12/13/06 12:00	13.00	14.00	01/15/07 18:56	33.00	40.00	
JAX47-SB106-01-113006	11/30/06 16:24	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/15/06 23:44	2.00	40.00	
JAX47-SB106-01-113006	11/30/06 16:24	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/21/06 21:45	8.00	40.00	
JAX47-SB106-01-113006	11/30/06 16:24	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/22/06 13:49	9.00	40.00	
JAX47-SB106-01-113006	11/30/06 16:24	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/22/06 15:58	9.00	40.00	
JAX47-SB106-05-113006	11/30/06 16:29	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/22/06 12:06	9.00	40.00	
JAX47-SB107-01-113006	11/30/06 16:38	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/16/06 00:36	3.00	40.00	
JAX47-SB107-01-113006	11/30/06 16:38	12/01/06 16:50	12/13/06 12:00	13.00	14.00	01/18/07 14:23	36.00	40.00	
JAX47-SB107-01-113006	11/30/06 16:38	12/01/06 16:50	12/13/06 12:00	13.00	14.00	01/18/07 14:49	36.00	40.00	
JAX47-SB107-05-113006	11/30/06 16:44	12/01/06 16:50	12/13/06 12:00	13.00	14.00	12/22/06 12:58	9.00	40.00	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJA003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/15/06
Lab Sample ID:	BA00094-CCV1	Injection Time:	18:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0873	7.280474E+07	6.3567E+07		-12.7	20
gamma-BHC	A	0.100	0.0873	6.465721E+07	5.64578E+07		-12.7	20
beta-BHC	A	0.100	0.0892	2.323065E+07	2.07226E+07		-10.8	20
delta-BHC	A	0.100	0.0898	5.66961E+07	5.09148E+07		-10.2	20
Heptachlor	A	0.100	0.0842	6.414063E+07	5.40317E+07		-15.8	20
Aldrin	A	0.100	0.0863	6.149162E+07	5.30638E+07		-13.7	20
Heptachlor epoxide	A	0.100	0.0856	5.405995E+07	4.62805E+07		-14.4	20
Chlordane-gamma	A	0.100	0.0852	5.527518E+07	4.71102E+07		-14.8	20
Chlordane-alpha	A	0.100	0.0845	5.296272E+07	4.47337E+07		-15.5	20
4,4'-DDE	A	0.100	0.0851	5.244698E+07	4.46173E+07		-14.9	20
Endosulfan I	A	0.100	0.0856	4.972951E+07	4.25822E+07		-14.4	20
Dieldrin	A	0.100	0.0864	5.436507E+07	4.69751E+07		-13.6	20
Endrin	A	0.100	0.0855	4.627937E+07	3.95717E+07		-14.5	20
4,4'-DDD	A	0.100	0.0864	4.00135E+07	3.45685E+07		-13.6	20
Endosulfan II	A	0.100	0.0857	4.442927E+07	3.80862E+07		-14.3	20
4,4'-DDT	A	0.100	0.0842	4.164772E+07	3.50763E+07		-15.8	20
Endrin aldehyde	A	0.100	0.0896	3.13612E+07	2.80919E+07		-10.4	20
Methoxychlor	A	0.100	0.0797	2.117353E+07	1.68772E+07		-20.3	20
Endosulfan sulfate	A	0.100	0.0863	3.673694E+07	3.16897E+07		-13.7	20
Endrin ketone	A	0.100	0.0854	4.568736E+07	3.90337E+07		-14.6	20
alpha-BHC [2C]	A	0.100	0.0866	7.552835E+07	6.5441E+07		-13.4	20
gamma-BHC [2C]	A	0.100	0.0868	6.719113E+07	5.83377E+07		-13.2	20
beta-BHC [2C]	A	0.100	0.0890	2.472905E+07	2.20167E+07		-11.0	20
delta-BHC [2C]	A	0.100	0.0893	5.850208E+07	5.22665E+07		-10.7	20
Heptachlor [2C]	A	0.100	0.0841	6.67268E+07	5.60902E+07		-15.9	20
Aldrin [2C]	A	0.100	0.0859	6.357242E+07	5.45925E+07		-14.1	20
Heptachlor epoxide [2C]	A	0.100	0.0845	5.626251E+07	4.75376E+07		-15.5	20
Chlordane-gamma [2C]	A	0.100	0.0845	5.722595E+07	4.83753E+07		-15.5	20
Chlordane-alpha [2C]	A	0.100	0.0835	5.472749E+07	4.57205E+07		-16.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJB003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/15/06
Lab Sample ID:	BA00094-CCV1	Injection Time:	18:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0852	5.341989E+07	4.54954E+07		-14.8	20	
Endosulfan I [2C]	A	0.100	0.0845	5.087841E+07	4.3012E+07		-15.5	20	
Dieldrin [2C]	A	0.100	0.0855	5.608619E+07	4.7935E+07		-14.5	20	
Endrin [2C]	A	0.100	0.0835	4.605028E+07	3.8436E+07		-16.5	20	
4,4'-DDD [2C]	A	0.100	0.0838	4.157866E+07	3.48443E+07		-16.2	20	
Endosulfan II [2C]	A	0.100	0.0838	4.58875E+07	3.84714E+07		-16.2	20	
4,4'-DDT [2C]	A	0.100	0.0817	4.184652E+07	3.41807E+07		-18.3	20	
Endrin aldehyde [2C]	A	0.100	0.0895	3.232817E+07	2.89495E+07		-10.5	20	
Methoxychlor [2C]	A	0.100	0.0786	2.018515E+07	1.58753E+07		-21.4	20	*
Endosulfan sulfate [2C]	A	0.100	0.0861	3.836149E+07	3.30214E+07		-13.9	20	
Endrin ketone [2C]	A	0.100	0.0848	4.596086E+07	3.89866E+07		-15.2	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJA014-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/15/06
Lab Sample ID:	BA00094-CCV2	Injection Time:	23:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0897	7.280474E+07	6.52988E+07		-10.3	20	
gamma-BHC	A	0.100	0.0885	6.465721E+07	5.7248E+07		-11.5	20	
beta-BHC	A	0.100	0.0919	2.323065E+07	2.13486E+07		-8.1	20	
delta-BHC	A	0.100	0.0928	5.66961E+07	5.26063E+07		-7.2	20	
Heptachlor	A	0.100	0.0839	6.414063E+07	5.37838E+07		-16.1	20	
Aldrin	A	0.100	0.0869	6.149162E+07	5.34155E+07		-13.1	20	
Heptachlor epoxide	A	0.100	0.0857	5.405995E+07	4.63173E+07		-14.3	20	
Chlordane-gamma	A	0.100	0.0847	5.527518E+07	4.68278E+07		-15.3	20	
Chlordane-alpha	A	0.100	0.0839	5.296272E+07	4.44398E+07		-16.1	20	
4,4′-DDE	A	0.100	0.0863	5.244698E+07	4.52524E+07		-13.7	20	
Endosulfan I	A	0.100	0.0848	4.972951E+07	4.21941E+07		-15.2	20	
Dieldrin	A	0.100	0.0845	5.436507E+07	4.59543E+07		-15.5	20	
Endrin	A	0.100	0.0880	4.627937E+07	4.07121E+07		-12.0	20	
4,4′-DDD	A	0.100	0.0975	4.00135E+07	3.90034E+07		-2.5	20	
Endosulfan II	A	0.100	0.0862	4.442927E+07	3.8299E+07		-13.8	20	
4,4′-DDT	A	0.100	0.0659	4.164772E+07	2.74273E+07		-34.1	20	*
Endrin aldehyde	A	0.100	0.0831	3.13612E+07	2.60554E+07		-16.9	20	
Methoxychlor	A	0.100	0.0710	2.117353E+07	1.50363E+07		-29.0	20	*
Endosulfan sulfate	A	0.100	0.0894	3.673694E+07	3.28394E+07		-10.6	20	
Endrin ketone	A	0.100	0.0870	4.568736E+07	3.9742E+07		-13.0	20	
alpha-BHC [2C]	A	0.100	0.0927	7.552835E+07	7.00051E+07		-7.3	20	
gamma-BHC [2C]	A	0.100	0.0918	6.719113E+07	6.1661E+07		-8.2	20	
beta-BHC [2C]	A	0.100	0.0960	2.472905E+07	2.37447E+07		-4.0	20	
delta-BHC [2C]	A	0.100	0.0965	5.850208E+07	5.64257E+07		-3.5	20	
Heptachlor [2C]	A	0.100	0.0866	6.67268E+07	5.78047E+07		-13.4	20	
Aldrin [2C]	A	0.100	0.0895	6.357242E+07	5.69013E+07		-10.5	20	
Heptachlor epoxide [2C]	A	0.100	0.0865	5.626251E+07	4.86534E+07		-13.5	20	
Chlordane-gamma [2C]	A	0.100	0.0863	5.722595E+07	4.93722E+07		-13.7	20	
Chlordane-alpha [2C]	A	0.100	0.0845	5.472749E+07	4.62353E+07		-15.5	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJB014-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/15/06
Lab Sample ID:	BA00094-CCV2	Injection Time:	23:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0880	5.341989E+07	4.70295E+07		-12.0	20	
Endosulfan I [2C]	A	0.100	0.0862	5.087841E+07	4.38801E+07		-13.8	20	
Dieldrin [2C]	A	0.100	0.0880	5.608619E+07	4.9343E+07		-12.0	20	
Endrin [2C]	A	0.100	0.0915	4.605028E+07	4.21284E+07		-8.5	20	
4,4'-DDD [2C]	A	0.100	0.0997	4.157866E+07	4.14651E+07		-0.3	20	
Endosulfan II [2C]	A	0.100	0.0890	4.58875E+07	4.08224E+07		-11.0	20	
4,4'-DDT [2C]	A	0.100	0.0686	4.184652E+07	2.86993E+07		-31.4	20	*
Endrin aldehyde [2C]	A	0.100	0.0835	3.232817E+07	2.698E+07		-16.5	20	
Methoxychlor [2C]	A	0.100	0.0825	2.018515E+07	1.66539E+07		-17.5	20	
Endosulfan sulfate [2C]	A	0.100	0.0919	3.836149E+07	3.52651E+07		-8.1	20	
Endrin ketone [2C]	A	0.100	0.0881	4.596086E+07	4.05057E+07		-11.9	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJA019-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/16/06
Lab Sample ID:	BA00094-CCV3	Injection Time:	01:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0952	7.280474E+07	6.93201E+07		-4.8	20	
gamma-BHC	A	0.100	0.0930	6.465721E+07	6.01021E+07		-7.0	20	
beta-BHC	A	0.100	0.0968	2.323065E+07	2.24898E+07		-3.2	20	
delta-BHC	A	0.100	0.0982	5.66961E+07	5.56662E+07		-1.8	20	
Heptachlor	A	0.100	0.0833	6.414063E+07	5.33981E+07		-16.7	20	
Aldrin	A	0.100	0.0913	6.149162E+07	5.61553E+07		-8.7	20	
Heptachlor epoxide	A	0.100	0.0896	5.405995E+07	4.84587E+07		-10.4	20	
Chlordane-gamma	A	0.100	0.0889	5.527518E+07	4.91293E+07		-11.1	20	
Chlordane-alpha	A	0.100	0.0881	5.296272E+07	4.66376E+07		-11.9	20	
4,4'-DDE	A	0.100	0.0898	5.244698E+07	4.70936E+07		-10.2	20	
Endosulfan I	A	0.100	0.0877	4.972951E+07	4.36366E+07		-12.3	20	
Dieldrin	A	0.100	0.0902	5.436507E+07	4.90406E+07		-9.8	20	
Endrin	A	0.100	0.0900	4.627937E+07	4.16501E+07		-10.0	20	
4,4'-DDD	A	0.100	0.117	4.00135E+07	4.67287E+07		16.8	20	
Endosulfan II	A	0.100	0.0903	4.442927E+07	4.0132E+07		-9.7	20	
4,4'-DDT	A	0.100	0.0481	4.164772E+07	2.00476E+07		-51.9	20	*
Endrin aldehyde	A	0.100	0.0875	3.13612E+07	2.74279E+07		-12.5	20	
Methoxychlor	A	0.100	0.0556	2.117353E+07	1.17711E+07		-44.4	20	*
Endosulfan sulfate	A	0.100	0.0896	3.673694E+07	3.2913E+07		-10.4	20	
Endrin ketone	A	0.100	0.0874	4.568736E+07	3.99302E+07		-12.6	20	
alpha-BHC [2C]	A	0.100	0.0971	7.552835E+07	7.33428E+07		-2.9	20	
gamma-BHC [2C]	A	0.100	0.0950	6.719113E+07	6.38069E+07		-5.0	20	
beta-BHC [2C]	A	0.100	0.0999	2.472905E+07	2.47066E+07		-0.09	20	
delta-BHC [2C]	A	0.100	0.100	5.850208E+07	5.86549E+07		0.3	20	
Heptachlor [2C]	A	0.100	0.0851	6.67268E+07	5.68153E+07		-14.9	20	
Aldrin [2C]	A	0.100	0.0934	6.357242E+07	5.93703E+07		-6.6	20	
Heptachlor epoxide [2C]	A	0.100	0.0903	5.626251E+07	5.08227E+07		-9.7	20	
Chlordane-gamma [2C]	A	0.100	0.0896	5.722595E+07	5.12793E+07		-10.4	20	
Chlordane-alpha [2C]	A	0.100	0.0872	5.472749E+07	4.76952E+07		-12.8	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LJB019-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/16/06
Lab Sample ID:	BA00094-CCV3	Injection Time:	01:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0913	5.341989E+07	4.87828E+07		-8.7	20	
Endosulfan I [2C]	A	0.100	0.0894	5.087841E+07	4.5466E+07		-10.6	20	
Dieldrin [2C]	A	0.100	0.0910	5.608619E+07	5.10127E+07		-9.0	20	
Endrin [2C]	A	0.100	0.0929	4.605028E+07	4.27776E+07		-7.1	20	
4,4'-DDD [2C]	A	0.100	0.118	4.157866E+07	4.89275E+07		17.7	20	
Endosulfan II [2C]	A	0.100	0.0951	4.58875E+07	4.36389E+07		-4.9	20	
4,4'-DDT [2C]	A	0.100	0.0499	4.184652E+07	2.08779E+07		-50.1	20	*
Endrin aldehyde [2C]	A	0.100	0.0867	3.232817E+07	2.80361E+07		-13.3	20	
Methoxychlor [2C]	A	0.100	0.0641	2.018515E+07	1.29366E+07		-35.9	20	*
Endosulfan sulfate [2C]	A	0.100	0.0909	3.836149E+07	3.48618E+07		-9.1	20	
Endrin ketone [2C]	A	0.100	0.0892	4.596086E+07	4.09973E+07		-10.8	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JSVGCECD2
Calibration: 0612008
Lab File ID: 9LPA020-0
Calibration Date: 12/12/06 13:26
Sequence: BA00094
Injection Date: 12/21/06
Lab Sample ID: BA00094-CCV4
Injection Time: 21:20

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.102	7.280474E+07	7.46182E+07		2.5	20
gamma-BHC	A	0.100	0.102	6.465721E+07	6.60988E+07		2.2	20
beta-BHC	A	0.100	0.107	2.323065E+07	2.48177E+07		6.8	20
delta-BHC	A	0.100	0.108	5.66961E+07	6.12707E+07		8.1	20
Heptachlor	A	0.100	0.0961	6.414063E+07	6.16241E+07		-3.9	20
Aldrin	A	0.100	0.0985	6.149162E+07	6.05693E+07		-1.5	20
Heptachlor epoxide	A	0.100	0.0954	5.405995E+07	5.15875E+07		-4.6	20
Chlordane-gamma	A	0.100	0.0992	5.527518E+07	5.48589E+07		-0.8	20
Chlordane-alpha	A	0.100	0.0986	5.296272E+07	5.22447E+07		-1.4	20
4,4'-DDE	A	0.100	0.0990	5.244698E+07	5.19085E+07		-1.0	20
Endosulfan I	A	0.100	0.0962	4.972951E+07	4.78293E+07		-3.8	20
Dieldrin	A	0.100	0.0967	5.436507E+07	5.25683E+07		-3.3	20
Endrin	A	0.100	0.0989	4.627937E+07	4.57843E+07		-1.1	20
4,4'-DDD	A	0.100	0.142	4.00135E+07	5.67102E+07		41.7	20 *
Endosulfan II	A	0.100	0.0960	4.442927E+07	4.26627E+07		-4.0	20
4,4'-DDT	A	0.100	0.144	4.164772E+07	5.97637E+07		43.5	20 *
Endrin aldehyde	A	0.100	0.0998	3.13612E+07	3.13051E+07		-0.2	20
Methoxychlor	A	0.100	0.0888	2.117353E+07	1.8809E+07		-11.2	20
Endosulfan sulfate	A	0.100	0.0998	3.673694E+07	3.6661E+07		-0.2	20
Endrin ketone	A	0.100	0.0947	4.568736E+07	4.32773E+07		-5.3	20
alpha-BHC [2C]	A	0.100	0.103	7.552835E+07	7.79697E+07		3.2	20
gamma-BHC [2C]	A	0.100	0.103	6.719113E+07	6.94108E+07		3.3	20
beta-BHC [2C]	A	0.100	0.110	2.472905E+07	2.71277E+07		9.7	20
delta-BHC [2C]	A	0.100	0.110	5.850208E+07	6.43224E+07		9.9	20
Heptachlor [2C]	A	0.100	0.100	6.67268E+07	6.67822E+07		0.08	20
Aldrin [2C]	A	0.100	0.101	6.357242E+07	6.41116E+07		0.8	20
Heptachlor epoxide [2C]	A	0.100	0.0973	5.626251E+07	5.47358E+07		-2.7	20
Chlordane-gamma [2C]	A	0.100	0.101	5.722595E+07	5.79446E+07		1.3	20
Chlordane-alpha [2C]	A	0.100	0.0983	5.472749E+07	5.38117E+07		-1.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPB020-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/21/06
Lab Sample ID:	BA00094-CCV4	Injection Time:	21:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.103	5.341989E+07	5.48477E+07		2.7	20	
Endosulfan I [2C]	A	0.100	0.0978	5.087841E+07	4.97607E+07		-2.2	20	
Dieldrin [2C]	A	0.100	0.0988	5.608619E+07	5.54295E+07		-1.2	20	
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.67807E+07		1.6	20	
4,4'-DDD [2C]	A	0.100	0.146	4.157866E+07	6.06212E+07		45.8	20	*
Endosulfan II [2C]	A	0.100	0.0985	4.58875E+07	4.52208E+07		-1.5	20	
4,4'-DDT [2C]	A	0.100	0.146	4.184652E+07	6.13185E+07		46.5	20	*
Endrin aldehyde [2C]	A	0.100	0.103	3.232817E+07	3.31729E+07		2.6	20	
Methoxychlor [2C]	A	0.100	0.0918	2.018515E+07	1.85325E+07		-8.2	20	
Endosulfan sulfate [2C]	A	0.100	0.103	3.836149E+07	3.94986E+07		3.0	20	
Endrin ketone [2C]	A	0.100	0.0965	4.596086E+07	4.43751E+07		-3.5	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPA025-0	Calibration Date:	~~12/12/06~~ 13:26
Sequence:	BA00094	Injection Date:	12/21/06
Lab Sample ID:	BA00094-CCV5	Injection Time:	23:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.101	7.280474E+07	7.36245E+07		1.1	20
gamma-BHC	A	0.100	0.101	6.465721E+07	6.52874E+07		1.0	20
beta-BHC	A	0.100	0.105	2.323065E+07	2.44246E+07		5.1	20
delta-BHC	A	0.100	0.106	5.66961E+07	6.00624E+07		5.9	20
Heptachlor	A	0.100	0.0946	6.414063E+07	6.06476E+07		-5.4	20
Aldrin	A	0.100	0.0966	6.149162E+07	5.93924E+07		-3.4	20
Heptachlor epoxide	A	0.100	0.0944	5.405995E+07	5.105E+07		-5.6	20
Chlordane-gamma	A	0.100	0.0985	5.527518E+07	5.44665E+07		-1.5	20
Chlordane-alpha	A	0.100	0.102	5.296272E+07	5.39175E+07		1.8	20
4,4′-DDE	A	0.100	0.104	5.244698E+07	5.47725E+07		4.4	20
Endosulfan I	A	0.100	0.0944	4.972951E+07	4.6932E+07		-5.6	20
Dieldrin	A	0.100	0.0962	5.436507E+07	5.22914E+07		-3.8	20
Endrin	A	0.100	0.0979	4.627937E+07	4.53132E+07		-2.1	20
4,4′-DDD	A	0.100	0.114	4.00135E+07	4.55774E+07		13.9	20
~~Endosulfan II~~	A	0.100	0.0951	4.442927E+07	4.22545E+07		-4.9	20
4,4′-DDT	A	0.100	0.123	4.164772E+07	5.10497E+07		22.6	20 *
~~Endrin aldehyde~~	A	0.100	0.0957	3.13612E+07	2.99974E+07		-4.3	20
Methoxychlor	A	0.100	0.0877	2.117353E+07	1.85608E+07		-12.3	20
Endosulfan sulfate	A	0.100	0.0990	3.673694E+07	3.63872E+07		-1.0	20
Endrin ketone	A	0.100	0.0948	4.568736E+07	4.33326E+07		-5.2	20
alpha-BHC [2C]	A	0.100	0.104	7.552835E+07	7.88281E+07		4.4	20
gamma-BHC [2C]	A	0.100	0.104	6.719113E+07	6.96567E+07		3.7	20
beta-BHC [2C]	A	0.100	0.110	2.472905E+07	2.71798E+07		9.9	20
delta-BHC [2C]	A	0.100	0.110	5.850208E+07	6.43059E+07		9.9	20
Heptachlor [2C]	A	0.100	0.0999	6.67268E+07	6.66909E+07		-0.05	20
Aldrin [2C]	A	0.100	0.101	6.357242E+07	6.43037E+07		1.2	20
Heptachlor epoxide [2C]	A	0.100	0.0986	5.626251E+07	5.54604E+07		-1.4	20
Chlordane-gamma [2C]	A	0.100	0.104	5.722595E+07	5.95196E+07		4.0	20
Chlordane-alpha [2C]	A	0.100	0.100	5.472749E+07	5.48725E+07		0.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPB025-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/21/06
Lab Sample ID:	BA00094-CCV5	Injection Time:	23:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.110	5.341989E+07	5.84688E+07		9.5	20
Endosulfan I [2C]	A	0.100	0.0988	5.087841E+07	5.02844E+07		-1.2	20
Dieldrin [2C]	A	0.100	0.101	5.608619E+07	5.6446E+07		0.6	20
Endrin [2C]	A	0.100	0.103	4.605028E+07	4.7514E+07		3.2	20
4,4'-DDD [2C]	A	0.100	0.118	4.157866E+07	4.90371E+07		17.9	20
Endosulfan II [2C]	A	0.100	0.0971	4.58875E+07	4.45408E+07		-2.9	20
4,4'-DDT [2C]	A	0.100	0.126	4.184652E+07	5.26967E+07		25.9	20 *
Endrin aldehyde [2C]	A	0.100	0.102	3.232817E+07	3.28288E+07		1.5	20
Methoxychlor [2C]	A	0.100	0.0936	2.018515E+07	1.89012E+07		-6.4	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.836149E+07	4.00199E+07		4.3	20
Endrin ketone [2C]	A	0.100	0.0987	4.596086E+07	4.53547E+07		-1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/22/06
Lab Sample ID:	BA00094-CCV6	Injection Time:	11:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.100	7.280474E+07	7.30605E+07		0.4	20
gamma-BHC	A	0.100	0.102	6.465721E+07	6.56409E+07		1.5	20
beta-BHC	A	0.100	0.104	2.323065E+07	2.41756E+07		4.1	20
delta-BHC	A	0.100	0.103	5.66961E+07	5.85231E+07		3.2	20
Heptachlor	A	0.100	0.0968	6.414063E+07	6.20942E+07		-3.2	20
Aldrin	A	0.100	0.0991	6.149162E+07	6.09435E+07		-0.9	20
Heptachlor epoxide	A	0.100	0.0980	5.405995E+07	5.29555E+07		-2.0	20
Chlordane-gamma	A	0.100	0.0992	5.527518E+07	5.4859E+07		-0.8	20
Chlordane-alpha	A	0.100	0.0983	5.296272E+07	5.20363E+07		-1.7	20
4,4'-DDE	A	0.100	0.0973	5.244698E+07	5.10081E+07		-2.7	20
Endosulfan I	A	0.100	0.0989	4.972951E+07	4.91839E+07		-1.1	20
Dieldrin	A	0.100	0.0991	5.436507E+07	5.38587E+07		-0.9	20
Endrin	A	0.100	0.0973	4.627937E+07	4.50303E+07		-2.7	20
4,4'-DDD	A	0.100	0.101	4.00135E+07	4.05365E+07		1.3	20
Endosulfan II	A	0.100	0.0998	4.442927E+07	4.43586E+07		-0.2	20
4,4'-DDT	A	0.100	0.102	4.164772E+07	4.22823E+07		1.5	20
Endrin aldehyde	A	0.100	0.109	3.13612E+07	3.43222E+07		9.4	20
Methoxychlor	A	0.100	0.0914	2.117353E+07	1.93499E+07		-8.6	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.73012E+07		1.5	20
Endrin ketone	A	0.100	0.0998	4.568736E+07	4.55777E+07		-0.2	20
alpha-BHC [2C]	A	0.100	0.0989	7.552835E+07	7.4701E+07		-1.1	20
gamma-BHC [2C]	A	0.100	0.0990	6.719113E+07	6.64871E+07		-1.0	20
beta-BHC [2C]	A	0.100	0.104	2.472905E+07	2.56209E+07		3.6	20
delta-BHC [2C]	A	0.100	0.102	5.850208E+07	5.96468E+07		2.0	20
Heptachlor [2C]	A	0.100	0.0966	6.67268E+07	6.44377E+07		-3.4	20
Aldrin [2C]	A	0.100	0.0978	6.357242E+07	6.21915E+07		-2.2	20
Heptachlor epoxide [2C]	A	0.100	0.0966	5.626251E+07	5.43259E+07		-3.4	20
Chlordane-gamma [2C]	A	0.100	0.0985	5.722595E+07	5.63843E+07		-1.5	20
Chlordane-alpha [2C]	A	0.100	0.0966	5.472749E+07	5.28614E+07		-3.4	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/22/06
Lab Sample ID:	BA00094-CCV6	Injection Time:	11:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0986	5.341989E+07	5.26863E+07		-1.4	20
Endosulfan I [2C]	A	0.100	0.0974	5.087841E+07	4.95517E+07		-2.6	20
Dieldrin [2C]	A	0.100	0.0985	5.608619E+07	5.52459E+07		-1.5	20
Endrin [2C]	A	0.100	0.0969	4.605028E+07	4.46059E+07		-3.1	20
4,4'-DDD [2C]	A	0.100	0.100	4.157866E+07	4.16826E+07		0.2	20
Endosulfan II [2C]	A	0.100	0.0992	4.58875E+07	4.5501E+07		-0.8	20
4,4'-DDT [2C]	A	0.100	0.102	4.184652E+07	4.27056E+07		2.1	20
Endrin aldehyde [2C]	A	0.100	0.110	3.232817E+07	3.54942E+07		9.8	20
Methoxychlor [2C]	A	0.100	0.0919	2.018515E+07	1.85538E+07		-8.1	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.836149E+07	3.90045E+07		1.7	20
Endrin ketone [2C]	A	0.100	0.100	4.596086E+07	4.61588E+07		0.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/22/06
Lab Sample ID:	BA00094-CCV7	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.106	7.280474E+07	7.68885E+07		5.6	20
gamma-BHC	A	0.100	0.106	6.465721E+07	6.84021E+07		5.8	20
beta-BHC	A	0.100	0.108	2.323065E+07	2.51638E+07		8.3	20
delta-BHC	A	0.100	0.107	5.66961E+07	6.09052E+07		7.4	20
Heptachlor	A	0.100	0.0984	6.414063E+07	6.31121E+07		-1.6	20
Aldrin	A	0.100	0.102	6.149162E+07	6.28457E+07		2.2	20
Heptachlor epoxide	A	0.100	0.0988	5.405995E+07	5.34168E+07		-1.2	20
Chlordane-gamma	A	0.100	0.102	5.527518E+07	5.62541E+07		1.8	20
Chlordane-alpha	A	0.100	0.102	5.296272E+07	5.37942E+07		1.6	20
4,4'-DDE	A	0.100	0.0987	5.244698E+07	5.1753E+07		-1.3	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.04107E+07		1.4	20
Dieldrin	A	0.100	0.100	5.436507E+07	5.45375E+07		0.3	20
Endrin	A	0.100	0.102	4.627937E+07	4.71379E+07		1.9	20
4,4'-DDD	A	0.100	0.0999	4.00135E+07	3.99588E+07		-0.1	20
Endosulfan II	A	0.100	0.0995	4.442927E+07	4.42009E+07		-0.5	20
4,4'-DDT	A	0.100	0.100	4.164772E+07	4.17831E+07		0.3	20
Endrin aldehyde	A	0.100	0.106	3.13612E+07	3.30975E+07		5.5	20
Methoxychlor	A	0.100	0.0900	2.117353E+07	1.90556E+07		-10.0	20
Endosulfan sulfate	A	0.100	0.102	3.673694E+07	3.73148E+07		1.6	20
Endrin ketone	A	0.100	0.0974	4.568736E+07	4.45066E+07		-2.6	20
alpha-BHC [2C]	A	0.100	0.106	7.552835E+07	8.01853E+07		6.2	20
gamma-BHC [2C]	A	0.100	0.106	6.719113E+07	7.14683E+07		6.4	20
beta-BHC [2C]	A	0.100	0.111	2.472905E+07	2.74034E+07		10.8	20
delta-BHC [2C]	A	0.100	0.110	5.850208E+07	6.4283E+07		9.9	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.84272E+07		2.5	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.62091E+07		4.1	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.66261E+07		0.6	20
Chlordane-gamma [2C]	A	0.100	0.105	5.722595E+07	6.0018E+07		4.9	20
Chlordane-alpha [2C]	A	0.100	0.103	5.472749E+07	5.61833E+07		2.7	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	12/22/06
Lab Sample ID:	BA00094-CCV7	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.104	5.341989E+07	5.53691E+07		3.6	20
Endosulfan I [2C]	A	0.100	0.102	5.087841E+07	5.17736E+07		1.8	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.74068E+07		2.4	20
Endrin [2C]	A	0.100	0.104	4.605028E+07	4.76899E+07		3.6	20
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.24848E+07		2.2	20
Endosulfan II [2C]	A	0.100	0.102	4.58875E+07	4.67259E+07		1.8	20
4,4'-DDT [2C]	A	0.100	0.103	4.184652E+07	4.32596E+07		3.4	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.48409E+07		7.8	20
Methoxychlor [2C]	A	0.100	0.0949	2.018515E+07	1.91563E+07		-5.1	20
Endosulfan sulfate [2C]	A	0.100	0.104	3.836149E+07	3.98218E+07		3.8	20
Endrin ketone [2C]	A	0.100	0.0990	4.596086E+07	4.54807E+07		-1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A4A003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/04/07
Lab Sample ID:	BA00094-CCV8	Injection Time:	12:58

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.0860	7.280474E+07	6.26462E+07		-14.0	20	
gamma-BHC	A	0.100	0.0863	6.465721E+07	5.57805E+07		-13.7	20	
beta-BHC	A	0.100	0.0881	2.323065E+07	2.04559E+07		-11.9	20	
delta-BHC	A	0.100	0.0890	5.66961E+07	5.04589E+07		-11.0	20	
Heptachlor	A	0.100	0.0832	6.414063E+07	5.33346E+07		-16.8	20	
Aldrin	A	0.100	0.0836	6.149162E+07	5.14019E+07		-16.4	20	
Heptachlor epoxide	A	0.100	0.0820	5.405995E+07	4.43035E+07		-18.0	20	
Chlordane-gamma	A	0.100	0.0809	5.527518E+07	4.47446E+07		-19.1	20	
Chlordane-alpha	A	0.100	0.0799	5.296272E+07	4.23187E+07		-20.1	20	
4,4'-DDE	A	0.100	0.0816	5.244698E+07	4.27999E+07		-18.4	20	
Endosulfan I	A	0.100	0.0807	4.972951E+07	4.01413E+07		-19.3	20	
Dieldrin	A	0.100	0.0819	5.436507E+07	4.45439E+07		-18.1	20	
Endrin	A	0.100	0.0795	4.627937E+07	3.67711E+07		-20.5	20	*
4,4'-DDD	A	0.100	0.0858	4.00135E+07	3.43273E+07		-14.2	20	
Endosulfan II	A	0.100	0.0810	4.442927E+07	3.59964E+07		-19.0	20	
4,4'-DDT	A	0.100	0.0794	4.164772E+07	3.30785E+07		-20.6	20	*
Endrin aldehyde	A	0.100	0.0859	3.13612E+07	2.69446E+07		-14.1	20	
Methoxychlor	A	0.100	0.0769	2.117353E+07	1.62852E+07		-23.1	20	*
Endosulfan sulfate	A	0.100	0.0861	3.673694E+07	3.16366E+07		-13.9	20	
Endrin ketone	A	0.100	0.0865	4.568736E+07	3.9501E+07		-13.5	20	
alpha-BHC [2C]	A	0.100	0.0851	7.552835E+07	6.42821E+07		-14.9	20	
gamma-BHC [2C]	A	0.100	0.0845	6.719113E+07	5.67496E+07		-15.5	20	
beta-BHC [2C]	A	0.100	0.0871	2.472905E+07	2.15273E+07		-12.9	20	
delta-BHC [2C]	A	0.100	0.0875	5.850208E+07	5.11784E+07		-12.5	20	
Heptachlor [2C]	A	0.100	0.0823	6.67268E+07	5.48853E+07		-17.7	20	
Aldrin [2C]	A	0.100	0.0822	6.357242E+07	5.22472E+07		-17.8	20	
Heptachlor epoxide [2C]	A	0.100	0.0804	5.626251E+07	4.52439E+07		-19.6	20	
Chlordane-gamma [2C]	A	0.100	0.0794	5.722595E+07	4.54423E+07		-20.6	20	*
Chlordane-alpha [2C]	A	0.100	0.0778	5.472749E+07	4.25849E+07		-22.2	20	*

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A4B003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/04/07
Lab Sample ID:	BA00094-CCV8	Injection Time:	12:58

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0798	5.341989E+07	4.26458E+07		-20.2	20	
Endosulfan I [2C]	A	0.100	0.0793	5.087841E+07	4.03301E+07		-20.7	20	*
Dieldrin [2C]	A	0.100	0.0800	5.608619E+07	4.48436E+07		-20.0	20	
Endrin [2C]	A	0.100	0.0786	4.605028E+07	3.61939E+07		-21.4	20	*
4,4'-DDD [2C]	A	0.100	0.0812	4.157866E+07	3.37562E+07		-18.8	20	
Endosulfan II [2C]	A	0.100	0.0786	4.58875E+07	3.60683E+07		-21.4	20	*
4,4'-DDT [2C]	A	0.100	0.0712	4.184652E+07	2.98055E+07		-28.8	20	*
Endrin aldehyde [2C]	A	0.100	0.0791	3.232817E+07	2.55685E+07		-20.9	20	*
Methoxychlor [2C]	A	0.100	0.0725	2.018515E+07	1.46305E+07		-27.5	20	*
Endosulfan sulfate [2C]	A	0.100	0.0783	3.836149E+07	3.00288E+07		-21.7	20	*
Endrin ketone [2C]	A	0.100	0.0820	4.596086E+07	3.77088E+07		-18.0	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A4A005A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/04/07
Lab Sample ID:	BA00094-CCV9	Injection Time:	16:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0965	7.280474E+07	7.02896E+07		-3.5	20
gamma-BHC	A	0.100	0.0958	6.465721E+07	6.19728E+07		-4.2	20
beta-BHC	A	0.100	0.0974	2.323065E+07	2.26301E+07		-2.6	20
delta-BHC	A	0.100	0.0980	5.66961E+07	5.55837E+07		-2.0	20
Heptachlor	A	0.100	0.0910	6.414063E+07	5.8379E+07		-9.0	20
Aldrin	A	0.100	0.0920	6.149162E+07	5.65419E+07		-8.0	20
Heptachlor epoxide	A	0.100	0.0896	5.405995E+07	4.84608E+07		-10.4	20
Chlordane-gamma	A	0.100	0.0900	5.527518E+07	4.97726E+07		-10.0	20
Chlordane-alpha	A	0.100	0.0887	5.296272E+07	4.69745E+07		-11.3	20
4,4'-DDE	A	0.100	0.0906	5.244698E+07	4.75163E+07		-9.4	20
Endosulfan I	A	0.100	0.0893	4.972951E+07	4.43838E+07		-10.7	20
Dieldrin	A	0.100	0.0894	5.436507E+07	4.85764E+07		-10.6	20
Endrin	A	0.100	0.0903	4.627937E+07	4.17854E+07		-9.7	20
4,4'-DDD	A	0.100	0.0932	4.00135E+07	3.7285E+07		-6.8	20
Endosulfan II	A	0.100	0.0889	4.442927E+07	3.94764E+07		-11.1	20
4,4'-DDT	A	0.100	0.0867	4.164772E+07	3.60953E+07		-13.3	20
Endrin aldehyde	A	0.100	0.0907	3.13612E+07	2.84591E+07		-9.3	20
Methoxychlor	A	0.100	0.0823	2.117353E+07	1.7434E+07		-17.7	20
Endosulfan sulfate	A	0.100	0.0924	3.673694E+07	3.39313E+07		-7.6	20
Endrin ketone	A	0.100	0.0902	4.568736E+07	4.12061E+07		-9.8	20
alpha-BHC [2C]	A	0.100	0.0959	7.552835E+07	7.24369E+07		-4.1	20
gamma-BHC [2C]	A	0.100	0.0947	6.719113E+07	6.36455E+07		-5.3	20
beta-BHC [2C]	A	0.100	0.0975	2.472905E+07	2.41119E+07		-2.5	20
delta-BHC [2C]	A	0.100	0.0984	5.850208E+07	5.75842E+07		-1.6	20
Heptachlor [2C]	A	0.100	0.0906	6.67268E+07	6.04707E+07		-9.4	20
Aldrin [2C]	A	0.100	0.0915	6.357242E+07	5.81981E+07		-8.5	20
Heptachlor epoxide [2C]	A	0.100	0.0893	5.626251E+07	5.02305E+07		-10.7	20
Chlordane-gamma [2C]	A	0.100	0.0894	5.722595E+07	5.11716E+07		-10.6	20
Chlordane-alpha [2C]	A	0.100	0.0873	5.472749E+07	4.77588E+07		-12.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A4B005A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/04/07
Lab Sample ID:	BA00094-CCV9	Injection Time:	16:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0898	5.341989E+07	4.79934E+07		-10.2	20
Endosulfan I [2C]	A	0.100	0.0887	5.087841E+07	4.51108E+07		-11.3	20
Dieldrin [2C]	A	0.100	0.0888	5.608619E+07	4.97825E+07		-11.2	20
Endrin [2C]	A	0.100	0.0889	4.605028E+07	4.0921E+07		-11.1	20
4,4'-DDD [2C]	A	0.100	0.0900	4.157866E+07	3.7421E+07		-10.0	20
Endosulfan II [2C]	A	0.100	0.0869	4.58875E+07	3.98981E+07		-13.1	20
4,4'-DDT [2C]	A	0.100	0.0820	4.184652E+07	3.43073E+07		-18.0	20
Endrin aldehyde [2C]	A	0.100	0.0899	3.232817E+07	2.90525E+07		-10.1	20
Methoxychlor [2C]	A	0.100	0.0818	2.018515E+07	1.65162E+07		-18.2	20
Endosulfan sulfate [2C]	A	0.100	0.0906	3.836149E+07	3.47421E+07		-9.4	20
Endrin ketone [2C]	A	0.100	0.0870	4.596086E+07	3.99735E+07		-13.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00193	Injection Date:	01/15/07
Lab Sample ID:	BA00193-CCV1	Injection Time:	17:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.103	7.280474E+07	7.48486E+07		2.8	20
gamma-BHC	A	0.100	0.103	6.465721E+07	6.6482E+07		2.8	20
beta-BHC	A	0.100	0.104	2.323065E+07	2.40776E+07		3.6	20
delta-BHC	A	0.100	0.105	5.66961E+07	5.95206E+07		5.0	20
Heptachlor	A	0.100	0.0998	6.414063E+07	6.4028E+07		-0.2	20
Aldrin	A	0.100	0.101	6.149162E+07	6.22645E+07		1.3	20
Heptachlor epoxide	A	0.100	0.101	5.405995E+07	5.44996E+07		0.8	20
Chlordane-gamma	A	0.100	0.101	5.527518E+07	5.58963E+07		1.1	20
Chlordane-alpha	A	0.100	0.100	5.296272E+07	5.31183E+07		0.3	20
4,4´-DDE	A	0.100	0.101	5.244698E+07	5.27908E+07		0.7	20
Endosulfan I	A	0.100	0.101	4.972951E+07	5.03731E+07		1.3	20
Dieldrin	A	0.100	0.101	5.436507E+07	5.48653E+07		0.9	20
Endrin	A	0.100	0.0977	4.627937E+07	4.52094E+07		-2.3	20
4,4´-DDD	A	0.100	0.106	4.00135E+07	4.22671E+07		5.6	20
Endosulfan II	A	0.100	0.102	4.442927E+07	4.53361E+07		2.0	20
4,4´-DDT	A	0.100	0.102	4.164772E+07	4.25243E+07		2.1	20
Endrin aldehyde	A	0.100	0.112	3.13612E+07	3.52687E+07		12.5	20
Methoxychlor	A	0.100	0.0970	2.117353E+07	2.05362E+07		-3.0	20
Endosulfan sulfate	A	0.100	0.108	3.673694E+07	3.95729E+07		7.7	20
Endrin ketone	A	0.100	0.104	4.568736E+07	4.75972E+07		4.2	20
alpha-BHC [2C]	A	0.100	0.0972	7.552835E+07	7.34488E+07		-2.8	20
gamma-BHC [2C]	A	0.100	0.0968	6.719113E+07	6.50418E+07		-3.2	20
beta-BHC [2C]	A	0.100	0.0990	2.472905E+07	2.44847E+07		-1.0	20
delta-BHC [2C]	A	0.100	0.0988	5.850208E+07	5.78244E+07		-1.2	20
Heptachlor [2C]	A	0.100	0.0972	6.67268E+07	6.48303E+07		-2.8	20
Aldrin [2C]	A	0.100	0.0961	6.357242E+07	6.10751E+07		-3.9	20
Heptachlor epoxide [2C]	A	0.100	0.0956	5.626251E+07	5.3794E+07		-4.4	20
Chlordane-gamma [2C]	A	0.100	0.0959	5.722595E+07	5.48961E+07		-4.1	20
Chlordane-alpha [2C]	A	0.100	0.0947	5.472749E+07	5.18064E+07		-5.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB003B-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00193	Injection Date:	01/15/07
Lab Sample ID:	BA00193-CCV1	Injection Time:	17:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0975	5.341989E+07	5.20644E+07		-2.5	20
Endosulfan I [2C]	A	0.100	0.0963	5.087841E+07	4.89886E+07		-3.7	20
Dieldrin [2C]	A	0.100	0.0976	5.608619E+07	5.47306E+07		-2.4	20
Endrin [2C]	A	0.100	0.0943	4.605028E+07	4.34421E+07		-5.7	20
4,4'-DDD [2C]	A	0.100	0.0991	4.157866E+07	4.12019E+07		-0.9	20
Endosulfan II [2C]	A	0.100	0.0982	4.58875E+07	4.50624E+07		-1.8	20
4,4'-DDT [2C]	A	0.100	0.0969	4.184652E+07	4.05507E+07		-3.1	20
Endrin aldehyde [2C]	A	0.100	0.107	3.232817E+07	3.45299E+07		6.8	20
Methoxychlor [2C]	A	0.100	0.0983	2.018515E+07	1.98439E+07		-1.7	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.836149E+07	3.93352E+07		2.5	20
Endrin ketone [2C]	A	0.100	0.101	4.596086E+07	4.64421E+07		1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00193	Injection Date:	01/15/07
Lab Sample ID:	BA00193-CCV2	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.107	7.280474E+07	7.78078E+07		6.9	20
gamma-BHC	A	0.100	0.107	6.465721E+07	6.91035E+07		6.9	20
beta-BHC	A	0.100	0.110	2.323065E+07	2.55084E+07		9.8	20
delta-BHC	A	0.100	0.109	5.66961E+07	6.17554E+07		8.9	20
Heptachlor	A	0.100	0.102	6.414063E+07	6.54397E+07		2.0	20
Aldrin	A	0.100	0.104	6.149162E+07	6.38443E+07		3.8	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.50908E+07		1.9	20
Chlordane-gamma	A	0.100	0.104	5.527518E+07	5.75109E+07		4.0	20
Chlordane-alpha	A	0.100	0.103	5.296272E+07	5.47599E+07		3.4	20
4,4′-DDE	A	0.100	0.102	5.244698E+07	5.37175E+07		2.4	20
Endosulfan I	A	0.100	0.104	4.972951E+07	5.19852E+07		4.5	20
Dieldrin	A	0.100	0.102	5.436507E+07	5.51876E+07		1.5	20
Endrin	A	0.100	0.107	4.627937E+07	4.94466E+07		6.8	20
4,4′-DDD	A	0.100	0.106	4.00135E+07	4.25645E+07		6.4	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.5894E+07		3.3	20
4,4′-DDT	A	0.100	0.103	4.164772E+07	4.29415E+07		3.1	20
Endrin aldehyde	A	0.100	0.106	3.13612E+07	3.31916E+07		5.8	20
Methoxychlor	A	0.100	0.0957	2.117353E+07	2.02685E+07		-4.3	20
Endosulfan sulfate	A	0.100	0.108	3.673694E+07	3.96956E+07		8.1	20
Endrin ketone	A	0.100	0.102	4.568736E+07	4.6758E+07		2.3	20
alpha-BHC [2C]	A	0.100	0.104	7.552835E+07	7.84925E+07		3.9	20
gamma-BHC [2C]	A	0.100	0.103	6.719113E+07	6.93927E+07		3.3	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.67484E+07		8.2	20
delta-BHC [2C]	A	0.100	0.109	5.850208E+07	6.38122E+07		9.1	20
Heptachlor [2C]	A	0.100	0.101	6.67268E+07	6.74725E+07		1.1	20
Aldrin [2C]	A	0.100	0.102	6.357242E+07	6.4905E+07		2.1	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.6665E+07		0.7	20
Chlordane-gamma [2C]	A	0.100	0.103	5.722595E+07	5.88478E+07		2.8	20
Chlordane-alpha [2C]	A	0.100	0.102	5.472749E+07	5.59844E+07		2.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00193	Injection Date:	01/15/07
Lab Sample ID:	BA00193-CCV2	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.103	5.341989E+07	5.48307E+07		2.6	20
Endosulfan I [2C]	A	0.100	0.103	5.087841E+07	5.23499E+07		2.9	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.71103E+07		1.8	20
Endrin [2C]	A	0.100	0.107	4.605028E+07	4.9115E+07		6.7	20
4,4'-DDD [2C]	A	0.100	0.104	4.157866E+07	4.30454E+07		3.5	20
Endosulfan II [2C]	A	0.100	0.102	4.58875E+07	4.6853E+07		2.1	20
4,4'-DDT [2C]	A	0.100	0.0965	4.184652E+07	4.03994E+07		-3.5	20
Endrin aldehyde [2C]	A	0.100	0.104	3.232817E+07	3.34619E+07		3.5	20
Methoxychlor [2C]	A	0.100	0.0967	2.018515E+07	1.95143E+07		-3.3	20
Endosulfan sulfate [2C]	A	0.100	0.106	3.836149E+07	4.06163E+07		5.9	20
Endrin ketone [2C]	A	0.100	0.101	4.596086E+07	4.63722E+07		0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AMA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/18/07
Lab Sample ID:	BA00094-CCVA	Injection Time:	11:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.114	7.280474E+07	8.31471E+07		14.2	20
gamma-BHC	A	0.100	0.114	6.465721E+07	7.3676E+07		13.9	20
beta-BHC	A	0.100	0.116	2.323065E+07	2.70278E+07		16.3	20
delta-BHC	A	0.100	0.114	5.66961E+07	6.49028E+07		14.5	20
Heptachlor	A	0.100	0.107	6.414063E+07	6.86603E+07		7.0	20
Aldrin	A	0.100	0.111	6.149162E+07	6.79968E+07		10.6	20
Heptachlor epoxide	A	0.100	0.107	5.405995E+07	5.78298E+07		7.0	20
Chlordane-gamma	A	0.100	0.110	5.527518E+07	6.08246E+07		10.0	20
Chlordane-alpha	A	0.100	0.109	5.296272E+07	5.78653E+07		9.3	20
4,4′-DDE	A	0.100	0.107	5.244698E+07	5.61906E+07		7.1	20
Endosulfan I	A	0.100	0.111	4.972951E+07	5.52054E+07		11.0	20
Dieldrin	A	0.100	0.108	5.436507E+07	5.85068E+07		7.6	20
Endrin	A	0.100	0.105	4.627937E+07	4.85277E+07		4.9	20
4,4′-DDD	A	0.100	0.108	4.00135E+07	4.31976E+07		8.0	20
Endosulfan II	A	0.100	0.106	4.442927E+07	4.71199E+07		6.1	20
4,4′-DDT	A	0.100	0.108	4.164772E+07	4.4769E+07		7.5	20
Endrin aldehyde	A	0.100	0.116	3.13612E+07	3.63651E+07		16.0	20
Methoxychlor	A	0.100	0.0955	2.117353E+07	2.02271E+07		-4.5	20
Endosulfan sulfate	A	0.100	0.100	3.673694E+07	3.68316E+07		0.3	20
Endrin ketone	A	0.100	0.0974	4.568736E+07	4.45026E+07		-2.6	20
alpha-BHC [2C]	A	0.100	0.108	7.552835E+07	8.17862E+07		8.3	20
gamma-BHC [2C]	A	0.100	0.108	6.719113E+07	7.2466E+07		7.9	20
beta-BHC [2C]	A	0.100	0.113	2.472905E+07	2.79124E+07		12.9	20
delta-BHC [2C]	A	0.100	0.109	5.850208E+07	6.37992E+07		9.1	20
Heptachlor [2C]	A	0.100	0.105	6.67268E+07	7.00509E+07		5.0	20
Aldrin [2C]	A	0.100	0.107	6.357242E+07	6.79165E+07		6.8	20
Heptachlor epoxide [2C]	A	0.100	0.105	5.626251E+07	5.88963E+07		4.7	20
Chlordane-gamma [2C]	A	0.100	0.108	5.722595E+07	6.1583E+07		7.6	20
Chlordane-alpha [2C]	A	0.100	0.106	5.472749E+07	5.82137E+07		6.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AMB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/18/07
Lab Sample ID:	BA00094-CCVA	Injection Time:	11:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.108	5.341989E+07	5.74528E+07		7.5	20
Endosulfan I [2C]	A	0.100	0.107	5.087841E+07	5.43799E+07		6.9	20
Dieldrin [2C]	A	0.100	0.106	5.608619E+07	5.94785E+07		6.0	20
Endrin [2C]	A	0.100	0.103	4.605028E+07	4.76288E+07		3.4	20
4,4'-DDD [2C]	A	0.100	0.106	4.157866E+07	4.3939E+07		5.7	20
Endosulfan II [2C]	A	0.100	0.106	4.58875E+07	4.85104E+07		5.7	20
4,4'-DDT [2C]	A	0.100	0.103	4.184652E+07	4.29807E+07		2.7	20
Endrin aldehyde [2C]	A	0.100	0.114	3.232817E+07	3.66947E+07		13.5	20
Methoxychlor [2C]	A	0.100	0.0972	2.018515E+07	1.96133E+07		-2.8	20
Endosulfan sulfate [2C]	A	0.100	0.0982	3.836149E+07	3.76622E+07		-1.8	20
Endrin ketone [2C]	A	0.100	0.0947	4.596086E+07	4.35226E+07		-5.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AMA007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/18/07
Lab Sample ID:	BA00094-CCVB	Injection Time:	13:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.115	7.280474E+07	8.39078E+07		15.3	20
gamma-BHC	A	0.100	0.114	6.465721E+07	7.38819E+07		14.3	20
beta-BHC	A	0.100	0.117	2.323065E+07	2.718E+07		17.0	20
delta-BHC	A	0.100	0.110	5.66961E+07	6.23164E+07		9.9	20
Heptachlor	A	0.100	0.106	6.414063E+07	6.82838E+07		6.5	20
Aldrin	A	0.100	0.111	6.149162E+07	6.81945E+07		10.9	20
Heptachlor epoxide	A	0.100	0.107	5.405995E+07	5.78269E+07		7.0	20
Chlordane-gamma	A	0.100	0.110	5.527518E+07	6.09617E+07		10.3	20
Chlordane-alpha	A	0.100	0.110	5.296272E+07	5.79769E+07		9.5	20
4,4′-DDE	A	0.100	0.105	5.244698E+07	5.51565E+07		5.2	20
Endosulfan I	A	0.100	0.113	4.972951E+07	5.60609E+07		12.7	20
Dieldrin	A	0.100	0.108	5.436507E+07	5.84239E+07		7.5	20
Endrin	A	0.100	0.106	4.627937E+07	4.88524E+07		5.6	20
4,4′-DDD	A	0.100	0.107	4.00135E+07	4.28955E+07		7.2	20
Endosulfan II	A	0.100	0.107	4.442927E+07	4.74108E+07		6.7	20
4,4′-DDT	A	0.100	0.108	4.164772E+07	4.48465E+07		7.7	20
Endrin aldehyde	A	0.100	0.117	3.13612E+07	3.68026E+07		17.4	20
Methoxychlor	A	0.100	0.0945	2.117353E+07	2.00069E+07		-5.5	20
Endosulfan sulfate	A	0.100	0.101	3.673694E+07	3.70732E+07		0.9	20
Endrin ketone	A	0.100	0.0977	4.568736E+07	4.46441E+07		-2.3	20
alpha-BHC [2C]	A	0.100	0.110	7.552835E+07	8.28646E+07		9.7	20
gamma-BHC [2C]	A	0.100	0.108	6.719113E+07	7.23573E+07		7.7	20
beta-BHC [2C]	A	0.100	0.113	2.472905E+07	2.79451E+07		13.0	20
delta-BHC [2C]	A	0.100	0.108	5.850208E+07	6.34744E+07		8.5	20
Heptachlor [2C]	A	0.100	0.107	6.67268E+07	7.1498E+07		7.2	20
Aldrin [2C]	A	0.100	0.108	6.357242E+07	6.85392E+07		7.8	20
Heptachlor epoxide [2C]	A	0.100	0.105	5.626251E+07	5.91633E+07		5.2	20
Chlordane-gamma [2C]	A	0.100	0.108	5.722595E+07	6.211E+07		8.5	20
Chlordane-alpha [2C]	A	0.100	0.108	5.472749E+07	5.88073E+07		7.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AMB007-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00094	Injection Date:	01/18/07
Lab Sample ID:	BA00094-CCVB	Injection Time:	13:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.107	5.341989E+07	5.73861E+07		7.4	20
Endosulfan I [2C]	A	0.100	0.108	5.087841E+07	5.46846E+07		7.5	20
Dieldrin [2C]	A	0.100	0.106	5.608619E+07	5.96553E+07		6.4	20
Endrin [2C]	A	0.100	0.104	4.605028E+07	4.78793E+07		4.0	20
4,4'-DDD [2C]	A	0.100	0.105	4.157866E+07	4.3807E+07		5.4	20
Endosulfan II [2C]	A	0.100	0.106	4.58875E+07	4.8704E+07		6.1	20
4,4'-DDT [2C]	A	0.100	0.0958	4.184652E+07	4.00834E+07		-4.2	20
Endrin aldehyde [2C]	A	0.100	0.113	3.232817E+07	3.64364E+07		12.7	20
Methoxychlor [2C]	A	0.100	0.0914	2.018515E+07	1.84491E+07		-8.6	20
Endosulfan sulfate [2C]	A	0.100	0.0982	3.836149E+07	3.76599E+07		-1.8	20
Endrin ketone [2C]	A	0.100	0.0941	4.596086E+07	4.32364E+07		-5.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00089	Instrument:	JSVGCECD2
Calibration:	0612008		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4′-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4′-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4′-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

HOLDTIME

SDG BR006-011

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB100-05-113006	B610373-02	NM	11/30/2006	12/15/2006	12/22/2006	15	7	22
M	MG/KG	JAX47-SB105-01-113006	B610373-03	NM	11/30/2006	12/15/2006	12/22/2006	15	7	22
M	MG/KG	JAX47-SB105-05-113006	B610373-04	NM	11/30/2006	12/15/2006	12/22/2006	15	7	22
M	MG/KG	JAX47-SB106-01-113006	B610373-05	NM	11/30/2006	12/15/2006	12/22/2006	15	7	22
M	MG/KG	JAX47-SB106-05-113006	B610373-06	NM	11/30/2006	12/15/2006	12/22/2006	15	7	22
M	MG/KG	JAX47-SB107-01-113006	B610373-07	NM	11/30/2006	12/15/2006	12/22/2006	15	7	22
M	MG/KG	JAX47-SB107-05-113006	B610373-08	NM	11/30/2006	12/15/2006	12/22/2006	15	7	22
M	MG/KG	JAX47-SB100-01-113006	B610373-01	NM	11/30/2006	12/15/2006	12/22/2006	15	7	22
OS	%	JAX47-SB100-01-113006	B610373-01	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	%	JAX47-SB107-05-113006	B610373-08	NM	11/30/2006	12/13/2006	12/22/2006	13	9	22
OS	%	JAX47-SB107-01-113006	B610373-07	NM	11/30/2006	12/13/2006	12/16/2006	13	3	16
OS	%	JAX47-SB106-05-113006	B610373-06	NM	11/30/2006	12/13/2006	12/22/2006	13	9	22
OS	%	JAX47-SB106-01-113006	B610373-05	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	%	JAX47-SB105-05-113006	B610373-04	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	%	JAX47-SB100-05-113006	B610373-02	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	JAX47-SB105-01-113006	B610373-03	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	MG/KG	JAX47-SB100-01-113006	B610373-01RE1	NM	11/30/2006	12/13/2006	12/21/2006	13	8	21
OS	MG/KG	JAX47-SB100-01-113006	B610373-01RE2	NM	11/30/2006	12/13/2006	12/22/2006	13	9	22
OS	MG/KG	JAX47-SB105-05-113006	B610373-04RE1	NM	11/30/2006	12/13/2006	1/15/2007	13	33	46
OS	MG/KG	JAX47-SB107-01-113006	B610373-07RE2	NM	11/30/2006	12/13/2006	1/18/2007	13	36	49
OS	MG/KG	JAX47-SB107-01-113006	B610373-07RE1	NM	11/30/2006	12/13/2006	1/18/2007	13	36	49
OS	MG/KG	JAX47-SB107-01-113006	B610373-07	NM	11/30/2006	12/13/2006	12/16/2006	13	3	16
OS	MG/KG	JAX47-SB106-05-113006	B610373-06	NM	11/30/2006	12/13/2006	12/22/2006	13	9	22
OS	MG/KG	JAX47-SB106-01-113006	B610373-05RE3	NM	11/30/2006	12/13/2006	12/22/2006	13	9	22
OS	MG/KG	JAX47-SB106-01-113006	B610373-05RE2	NM	11/30/2006	12/13/2006	12/22/2006	13	9	22
OS	MG/KG	JAX47-SB100-01-113006	B610373-01	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	MG/KG	JAX47-SB106-01-113006	B610373-05	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	MG/KG	JAX47-SB107-05-113006	B610373-08	NM	11/30/2006	12/13/2006	12/22/2006	13	9	22
OS	MG/KG	JAX47-SB105-05-113006	B610373-04	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	MG/KG	JAX47-SB105-01-113006	B610373-03RE2	NM	11/30/2006	12/13/2006	12/22/2006	13	9	22
OS	MG/KG	JAX47-SB105-01-113006	B610373-03RE1	NM	11/30/2006	12/13/2006	12/21/2006	13	8	21
OS	MG/KG	JAX47-SB105-01-113006	B610373-03	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	MG/KG	JAX47-SB100-05-113006	B610373-02RE2	NM	11/30/2006	12/13/2006	1/15/2007	13	33	46

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB100-05-113006	B610373-02RE1	NM	11/30/2006	12/13/2006	1/4/2007	13	22	35
OS	MG/KG	JAX47-SB100-05-113006	B610373-02	NM	11/30/2006	12/13/2006	12/15/2006	13	2	15
OS	MG/KG	JAX47-SB106-01-113006	B610373-05RE1	NM	11/30/2006	12/13/2006	12/21/2006	13	8	21

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-01	File ID:	9LJA010-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 21:35
Solids:	95.95	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	* 1	7.995	8.023286	0.0283		0.0020		
gamma-BHC	* 1	8.599	8.628	0.029		0.0011	15.1	
beta-BHC	1	8.787	8.816429	0.0294		0.0035	60.2	J for 4
delta-BHC	* 1	9.095	9.124286	0.0293		0.0037	15.1	
Aldrin	* 1	10.002	9.967572	0.0344		0.00031	55.4	J for 4
Heptachlor epoxide	* 1	10.938	10.95643	0.0184		0.024	2400	R for 4
Chlordane-alpha	* 1	11.376	11.34971	0.0263		0.00049	14400	R for 4
Dieldrin	* 1	11.891	11.91886	0.0279		0.053	0.625	
Endrin	* 1	12.225	12.26457	0.0396		0.0099	84.2	J for 4
Endosulfan sulfate	* 1	13.876	13.853	0.023		0.0022	80.6	J for 4
alpha-BHC	2	7.812	7.838	0.026		0.0017	14	
gamma-BHC	2	8.47	8.497428	0.0274		0.0013	14.8	
beta-BHC	* 2	8.661	8.687429	0.0264		0.0022	60.4	
delta-BHC	2	9.153	9.180286	0.0273		0.0032	15.1	
Aldrin	2	9.745	9.759429	0.0144		0.00049	55.4	
Heptachlor epoxide	2	10.7	10.67843	0.0216		0.00097	2400	
Chlordane-alpha	2	11.166	11.19143	0.0254		0.071	14400	
Dieldrin	2	11.648	11.67429	0.0263		0.052	0.481	
Endrin	2	12.119	12.121	0.002		0.018	83.8	
Endosulfan sulfate	2	13.304	13.32643	0.0224		0.0039	81	
Endrin ketone	2	14.097	14.08214	0.0149		0.021		
2,4,5,6-TCMX	* 1	6.818	6.848286	0.0303		0.0313	3.19	
2,4,5,6-TCMX	2	6.537	6.564286	0.0273		0.0303	3.32	
DBC	* 1	14.126	14.10214	0.0239		0.0165	128	R for 4
DBC	2	13.886	13.90914	0.0231		0.0377		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-02	File ID:	9LJA011-0
Sampled:	11/30/06 15:46	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 22:01
Solids:	94.83	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.995	8.023286	0.0283		0.022	2.47
gamma-BHC	* 1	8.6	8.628	0.028		0.00032	11.3
beta-BHC	* 1	8.788	8.816429	0.0284		0.0021	3.39
delta-BHC	* 1	9.095	9.124286	0.0293		0.013	0.404
Heptachlor epoxide	1	10.941	10.95643	0.0154		0.0012	
Chlordane-gamma	* 1	11.118	11.14771	0.0297		0.0011	25.4
Chlordane-alpha	* 1	11.31	11.34971	0.0397		0.00049	21.5
4,4'-DDE	* 1	11.458	11.48286	0.0249		0.0084	
Dieldrin	* 1	11.89	11.91886	0.0289		0.00060	17.6
Endrin aldehyde	* 1	13.189	13.21929	0.0303		0.00025	85.7 JH4
alpha-BHC	2	7.812	7.838	0.026		0.021	2.21
gamma-BHC	2	8.47	8.497428	0.0274		0.00035	11.2
beta-BHC	2	8.662	8.687429	0.0254		0.0020	3.49
delta-BHC	2	9.154	9.180286	0.0263		0.013	0.955
Chlordane-gamma	2	10.979	10.97329	0.00571		0.0014	25.5
Chlordane-alpha	2	11.167	11.19143	0.0244		0.00060	21.5
4,4'-DDE	2	11.471	11.47543	0.00443		0.020	
Dieldrin	2	11.648	11.67429	0.0263		0.00070	17.6
Endrin aldehyde	2	12.891	12.927	0.036		0.00046	85.8
2,4,5,6-TCMX	* 1	6.818	6.848286	0.0303		0.0303	3.18
2,4,5,6-TCMX	2	6.537	6.564286	0.0273		0.0294	3.11
DBC	* 1	14.077	14.10214	0.0251		0.0369	2.06
DBC	2	13.886	13.90914	0.0231		0.0362	2.02

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03	File ID:	9LJA012-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 22:27
Solids:	95.66	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	* 1	7.996	8.023286	0.0273		0.00056	50	J for 4
gamma-BHC	* 1	8.6	8.628	0.028		0.00080	17.4	
beta-BHC	* 1	8.8	8.816429	0.0164		0.011	247	R for 4
delta-BHC	* 1	9.096	9.124286	0.0283		0.00094	0.0218	
Heptachlor	* 1	9.437	9.463429	0.0264		0.012	1.15	
Endrin	* 1	12.231	12.26457	0.0336		0.023	135	R for 4
Endosulfan sulfate	* 1	13.823	13.853	0.03		0.027	102	R for 4
Endrin ketone	* 1	14.206	14.25229	0.0463		0.0082	360	R for 4
alpha-BHC	2	7.846	7.838	0.008		0.00084	49.9	J for 4
gamma-BHC	2	8.471	8.497428	0.0264		0.00094	17.5	
beta-BHC	2	8.663	8.687429	0.0244		0.0033	247	
delta-BHC	2	9.154	9.180286	0.0263		0.00094	0.0218	
Heptachlor	2	9.213	9.237571	0.0246		0.012	0.813	
Aldrin	2	9.746	9.759429	0.0134		0.0031		
Endrin	2	12.117	12.121	0.004		0.054	135	
Endosulfan sulfate	2	13.302	13.32643	0.0244		0.013	102	
Endrin ketone	2	14.101	14.08214	0.0189		0.038	361	
2,4,5,6-TCMX	* 1	6.82	6.848286	0.0283		0.0336	5.74	
2,4,5,6-TCMX	2	6.54	6.564286	0.0243		0.0318	5.5	
DBC	* 1	14.124	14.10214	0.0219		0.0348	56.7	J for 4
DBC	2	13.888	13.90914	0.0211		0.0546	56.8	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-04	File ID:	9LJA013-0
Sampled:	11/30/06 16:15	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 22:53
Solids:	88.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.121	11.14771	0.0267		0.0013	34
Chlordane-alpha	* 1	11.314	11.34971	0.0357		0.0014	17
4,4´-DDE	* 1	11.457	11.48286	0.0259		0.0029	J
Dieldrin	* 1	11.893	11.91886	0.0259		0.00026	114
4,4´-DDD	* 1	12.35	12.37786	0.0279		0.00068	
Chlordane-gamma	2	10.948	10.97329	0.0253		0.0018	34.4
Chlordane-alpha	2	11.168	11.19143	0.0234		0.0016	16.6
4,4'-DDE	2	11.452	11.47543	0.0234		0.0031	
Dieldrin	2	11.649	11.67429	0.0253		0.00057	114
4,4'-DDD	2	12.302	12.32514	0.0231		0.00079	
2,4,5,6-TCMX	* 1	6.82	6.848286	0.0283		0.0301	2.73
2,4,5,6-TCMX	2	6.54	6.564286	0.0243		0.0309	2.81
DBC	* 1	14.078	14.10214	0.0241		0.0347	2.61
DBC	2	13.887	13.90914	0.0221		0.0338	2.73

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05	File ID:	9LJA015.D
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 23:44
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC		1	8.003	8.023286	0.0203		0.0030	45.5	J for Y
gamma-BHC	*	1	8.601	8.628	0.027		0.0024	3.03	
beta-BHC		1	8.786	8.816429	0.0304		0.027	113	R for Y
delta-BHC	*	1	9.097	9.124286	0.0273		0.0015	20.4	
Heptachlor	*	1	9.438	9.463429	0.0254		0.0029	25.7	J for Y
Aldrin	*	1	9.937	9.967572	0.0306		0.0017	469	R for Y
Endosulfan sulfate		1	13.877	13.853	0.024		0.0077	480	R for Y
Endrin ketone	*	1	14.278	14.25229	0.0257		0.0013	4800	R for Y
alpha-BHC	*	2	7.813	7.838	0.025		0.0020	45.6	
gamma-BHC		2	8.473	8.497428	0.0244		0.0023	3	
beta-BHC	*	2	8.662	8.687429	0.0254		0.013	113	
delta-BHC		2	9.155	9.180286	0.0253		0.0018	20.5	
Heptachlor		2	9.216	9.237571	0.0216		0.0037	25.8	
Aldrin		2	9.748	9.759429	0.0114		0.0096	470	
Endosulfan sulfate	*	2	13.301	13.32643	0.0254		0.045	480	
Endrin ketone		2	14.062	14.08214	0.0201		0.062	4800	
2,4,5,6-TCMX	*	1	6.821	6.848286	0.0273		0.0307	19.2	
2,4,5,6-TCMX		2	6.54	6.564286	0.0243		0.0366	19.4	
DBC	*	1	14.082	14.10214	0.0201		0.148	255	R for Y
DBC		2	13.888	13.90914	0.0211		0.0418	254	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-07	File ID:	9LJA017-0
Sampled:	11/30/06 16:38	Prepared:	12/13/06 12:00	Analyzed:	12/16/06 00:36
Solids:	98.00	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	* 1	7.996	8.023286	0.0273		0.00041	33.4	J for 4
gamma-BHC	* 1	8.602	8.628	0.026		0.0013	20.6	
beta-BHC	* 1	8.79	8.816429	0.0264		0.0026	24.9	
delta-BHC	* 1	9.097	9.124286	0.0273		0.00041		
Heptachlor	* 1	9.437	9.463429	0.0264		0.0021	4.53	
Endrin	* 1	12.235	12.26457	0.0296		0.052	16.7	
4,4'-DDD	* 1	12.409	12.37786	0.0311		0.060		
Endosulfan II	* 1	12.575	12.60057	0.0256		0.0033	3050	R for 4
Methoxychlor	* 1	13.472	13.48543	0.0134		0.025	21.6	
Endosulfan sulfate	* 1	13.878	13.853	0.025		0.0036	120	R for 4
Endrin ketone	* 1	14.273	14.25229	0.0207		0.0014	1310	R for 4
alpha-BHC	2	7.813	7.838	0.025		0.00031	33.3	
gamma-BHC	2	8.473	8.497428	0.0244		0.0016	20.2	
beta-BHC	2	8.664	8.687429	0.0234		0.0033	24.6	
delta-BHC	2	9.156	9.180286	0.0243		0.00051	25.1	
Heptachlor	2	9.214	9.237571	0.0236		0.0022	4.9	
Aldrin	2	9.749	9.759429	0.0104		0.0022		
Endrin	2	12.099	12.121	0.022		0.060	16.7	
4,4'-DDD	2	12.36	12.32514	0.0349		0.033		
Endosulfan II	2	12.476	12.43571	0.0403		0.10	3050	
Methoxychlor	2	13.777	13.77371	0.00329		0.031	21.3	
Endosulfan sulfate	2	13.303	13.32643	0.0234		0.0080	120	
Endrin ketone	2	14.1	14.08214	0.0179		0.020	1310	
2,4,5,6-TCMX	* 1	6.821	6.848286	0.0273		0.0305	2.16	
2,4,5,6-TCMX	2	6.54	6.564286	0.0243		0.0299	2.01	
DBC	* 1	14.08	14.10214	0.0221		0.0636	75.2	J for 4
DBC	2	13.887	13.90914	0.0221		0.0363		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05RE1	File ID:	9LPA021-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 21:45
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.845	10.95643	0.111		0.17	25
Endrin	* 1	12.148	12.26457	0.117		0.20	24.6
Methoxychlor	* 1	13.381	13.48543	0.104		0.089	59.4 J fru
Heptachlor epoxide	2	10.579	10.67843	0.0994		0.13	24.6
Endrin	2	12.019	12.121	0.102		0.25	24.3
Methoxychlor	2	13.674	13.77371	0.0997		0.056	59.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03RE1	File ID:	9LPA022-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 22:11
Solids:	95.66	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.845	10.95643	0.111		0.098	27
Chlordane-gamma	* 1	11.036	11.14771	0.112		0.40	15.6
Chlordane-alpha	* 1	11.226	11.34971	0.124		0.52	0.393
Dieldrin	* 1	11.808	11.91886	0.111		0.40	17.9
4,4'-DDD	* 1	12.268	12.37786	0.11		0.30	
Methoxychlor	* 1	13.386	13.48543	0.0994		0.036	126
Heptachlor epoxide	2	10.579	10.67843	0.0994		0.077	27.1
Chlordane-gamma	2	10.873	10.97329	0.1		0.46	15.7
Chlordane-alpha	2	11.094	11.19143	0.0974		0.52	0.39
Dieldrin	2	11.574	11.67429	0.1		0.47	17.9
4,4'-DDD	2	12.226	12.32514	0.0991		0.43	
Methoxychlor	2	13.661	13.77371	0.113		0.016	126

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-01RE1	File ID:	9LPA024-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 23:03
Solids:	95.95	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.035	11.14771	0.113		0.12	✓25.8 J for Y
4,4'-DDE	* 1	11.375	11.48286	0.108		0.53	✓
Methoxychlor	* 1	13.381	13.48543	0.104		0.038	PD
Chlordane-gamma	2	10.871	10.97329	0.102		0.15	✓ 26 J for U
4,4'-DDE	2	11.379	11.47543	0.0964		0.53	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-06	File ID:	9LQA004-0
Sampled:	11/30/06 16:29	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 12:06
Solids:	95.64	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.018	11.14771	0.13		0.00028	14.3
Dieldrin	* 1	11.789	11.91886	0.13		0.00049	7.18
4,4'-DDT	* 1	12.655	12.78071	0.126		0.0062	
Chlordane-gamma	2	10.853	10.97329	0.12		0.00024	14.4
Chlordane-alpha	2	11.075	11.19143	0.116		0.00028	
Dieldrin	2	11.554	11.67429	0.12		0.00052	7.14
4,4'-DDD	2	12.208	12.32514	0.117		0.00031	
4,4'-DDT	2	12.657	12.77157	0.115		0.0064	
Endrin aldehyde	2	12.883	12.927	0.044		0.0011	
2,4,5,6-TCMX	* 1	6.714	6.848286	0.134		0.0335	2.12
2,4,5,6-TCMX	2	6.446	6.564286	0.118		0.0328	2.25
DBC	* 1	13.978	14.10214	0.124		0.0346	0.734
DBC	2	13.799	13.90914	0.11		0.0349	0.736

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-08	File ID:	9LQA005-0
Sampled:	11/30/06 16:44	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 12:58
Solids:	94.85	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.018	11.14771	0.13		0.0012	9.83
Chlordane-alpha	* 1	11.216	11.34971	0.134		0.0013	5.58
4,4'-DDE	* 1	11.359	11.48286	0.124		0.0014	
Dieldrin	* 1	11.791	11.91886	0.128		0.0015	2.18
4,4'-DDT	* 1	12.657	12.78071	0.124		0.0029	
Chlordane-gamma	2	10.855	10.97329	0.118		0.0011	9.37
Chlordane-alpha	2	11.077	11.19143	0.114		0.0014	4.91
4,4'-DDE	2	11.365	11.47543	0.11		0.0014	
Dieldrin	2	11.556	11.67429	0.118		0.0016	2.03
4,4'-DDT	2	12.66	12.77157	0.112		0.0030	
2,4,5,6-TCMX	* 1	6.716	6.848286	0.132		0.0322	0.805
2,4,5,6-TCMX	2	6.446	6.564286	0.118		0.0319	0.795
DBC	* 1	13.98	14.10214	0.122		0.0331	0.889
DBC	2	13.801	13.90914	0.108		0.0334	0.973

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03RE2	File ID:	9LQA006-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 13:24
Solids:	95.66	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.359	11.48286	0.124		1.4	
4,4'-DDT	* 1	12.656	12.78071	0.125		4.4	
4,4'-DDE	2	11.366	11.47543	0.109		1.5	
4,4'-DDT	2	12.659	12.77157	0.113		4.6	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05RE2	File ID:	9LQA007-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 13:49
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.019	11.14771	0.129		1.3	0.00792
Chlordane-alpha	* 1	11.216	11.34971	0.134		1.7	2.82
4,4'-DDE	* 1	11.361	11.48286	0.122		1.6	
Dieldrin	* 1	11.792	11.91886	0.127		3.4	6.15
4,4'-DDD	* 1	12.254	12.37786	0.124		0.82	
Chlordane-gamma	2	10.856	10.97329	0.117		1.3	0.00792
Chlordane-alpha	2	11.078	11.19143	0.113		1.6	3.13
4,4'-DDE	2	11.366	11.47543	0.109		1.8	J for 4
Dieldrin	2	11.557	11.67429	0.117		3.7	6.12
4,4'-DDD	2	12.211	12.32514	0.114		1.6	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-01RE2	File ID:	9LQA010-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 15:33
Solids:	95.95	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.254	12.37786	0.124		0.46	✓
4,4'-DDT	* 1	12.657	12.78071	0.124		1.3	✓
4,4'-DDD	2	12.213	12.32514	0.112		0.70	
4,4'-DDT	2	12.66	12.77157	0.112		1.4	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05RE3	File ID:	9LQA011-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 15:58
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDT	* 1	12.659	12.78071	0.122		27	✓
4,4'-DDT	2	12.661	12.77157	0.111		28	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-02RE1	File ID:	9A4A004-0
Sampled:	11/30/06 15:46	Prepared:	12/13/06 12:00	Analyzed:	01/04/07 13:29
Solids:	94.83	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.138	12.37786	0.24		1.0	
4,4'-DDD	2	12.11	12.32514	0.215		0.98	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-02RE2	File ID:	9AJA006-0
Sampled:	11/30/06 15:46	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 18:30
Solids:	94.83	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00193		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.406	12.78071	0.375		0.014	✓
4,4'-DDT	2	12.425	12.77157	0.347		0.013	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-04RE1	File ID:	9AJA007-0
Sampled:	11/30/06 16:15	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 18:56
Solids:	88.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00193		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.41	12.78071	0.371		0.0039	✓
4,4'-DDT	2	12.429	12.77157	0.343		0.0040	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-07RE1	File ID:	9AMA~~004A~~-0
Sampled:	11/30/06 16:38	Prepared:	12/13/06 12:00	Analyzed:	01/18/07 14:23
Solids:	98.00	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.515	10.95643	0.441		0.082	41.2 J for L
Chlordane-gamma	* 1	10.708	11.14771	0.44		0.50	1.55
Chlordane-alpha	* 1	10.902	11.34971	0.448		0.75	32.6 J for L
4,4'-DDE	* 1	11.062	11.48286	0.421		0.67	✓
Dieldrin	* 1	11.477	11.91886	0.442		0.82	2.17
Heptachlor epoxide	2	10.27	10.67843	0.408		0.058	41.1
Chlordane-gamma	2	10.563	10.97329	0.41		0.51	1.7
Chlordane-alpha	2	10.786	11.19143	0.405		0.56	32.6
4,4'-DDE	2	11.085	11.47543	0.39		0.65	✓
Dieldrin	2	11.265	11.67429	0.409		0.80	2.14

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-07RE2	File ID:	9AMA005A-0
Sampled:	11/30/06 16:38	Prepared:	12/13/06 12:00	Analyzed:	01/18/07 14:49
Solids:	98.00	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4′-DDT	* 1	12.357	12.78071	0.424		1.4	
4,4'-DDT	2	12.379	12.77157	0.393		1.5	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-01	File ID:	9LJA010-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 21:35
Solids:	95.95	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.995	8.023286	0.0283		0.0020	14.0
gamma-BHC	* 1	8.599	8.628	0.029		0.0011	15.2
beta-BHC	1	8.787	8.816429	0.0294		0.0035	60.3
delta-BHC	* 1	9.095	9.124286	0.0293		0.0037	15.1
Aldrin	* 1	10.002	9.967572	0.0344		0.00031	55.6
Heptachlor epoxide	* 1	10.938	10.95643	0.0184		0.024	2400.0
Chlordane-alpha	* 1	11.376	11.34971	0.0263		0.00049	14428.6
Dieldrin	* 1	11.891	11.91886	0.0279		0.053	0.5
Endrin	* 1	12.225	12.26457	0.0396		0.0099	83.9
Endosulfan sulfate	* 1	13.876	13.853	0.023		0.0022	80.6
alpha-BHC	2	7.812	7.838	0.026		0.0017	14.0
gamma-BHC	2	8.47	8.497428	0.0274		0.0013	15.2
beta-BHC	* 2	8.661	8.687429	0.0264		0.0022	60.3
delta-BHC	2	9.153	9.180286	0.0273		0.0032	15.1
Aldrin	2	9.745	9.759429	0.0144		0.00049	55.6
Heptachlor epoxide	2	10.7	10.67843	0.0216		0.00097	2400.0
Chlordane-alpha	2	11.166	11.19143	0.0254		0.071	14428.6
Dieldrin	2	11.648	11.67429	0.0263		0.052	0.5
Endrin	2	12.119	12.121	0.002		0.018	83.9
Endosulfan sulfate	2	13.304	13.32643	0.0224		0.0039	80.6
Endrin ketone	2	14.097	14.08214	0.0149		0.021	0.0
2,4,5,6-TCMX	* 1	6.818	6.848286	0.0303		0.0313	3.2
2,4,5,6-TCMX	2	6.537	6.564286	0.0273		0.0303	3.2
DBC	* 1	14.126	14.10214	0.0239		0.0165	127.9
DBC	2	13.886	13.90914	0.0231		0.0377	127.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB100-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-02	File ID:	9LJA011-0
Sampled:	11/30/06 15:46	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 22:01
Solids:	94.83	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.995	8.023286	0.0283		0.022	2.3
gamma-BHC	* 1	8.6	8.628	0.028		0.00032	11.1
beta-BHC	* 1	8.788	8.816429	0.0284		0.0021	3.4
delta-BHC	* 1	9.095	9.124286	0.0293		0.013	0.6
Heptachlor epoxide	1	10.941	10.95643	0.0154		0.0012	0.0
Chlordane-gamma	* 1	11.118	11.14771	0.0297		0.0011	25.0
Chlordane-alpha	* 1	11.31	11.34971	0.0397		0.00049	21.4
4,4'-DDE	* 1	11.458	11.48286	0.0249		0.0084	137.8
Dieldrin	* 1	11.89	11.91886	0.0289		0.00060	17.6
Endrin aldehyde	* 1	13.189	13.21929	0.0303		0.00025	85.7
alpha-BHC	2	7.812	7.838	0.026		0.021	2.3
gamma-BHC	2	8.47	8.497428	0.0274		0.00035	11.1
beta-BHC	2	8.662	8.687429	0.0254		0.0020	3.4
delta-BHC	2	9.154	9.180286	0.0263		0.013	0.6
Chlordane-gamma	2	10.979	10.97329	0.00571		0.0014	25.0
Chlordane-alpha	2	11.167	11.19143	0.0244		0.00060	21.4
4,4'-DDE	2	11.471	11.47543	0.00443		0.020	137.8
Dieldrin	2	11.648	11.67429	0.0263		0.00070	17.6
Endrin aldehyde	2	12.891	12.927	0.036		0.00046	85.7
2,4,5,6-TCMX	* 1	6.818	6.848286	0.0303		0.0303	3.2
2,4,5,6-TCMX	2	6.537	6.564286	0.0273		0.0294	3.2
DBC	* 1	14.077	14.10214	0.0251		0.0369	2.1
DBC	2	13.886	13.90914	0.0231		0.0362	2.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB105-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-03	File ID:	9LJA012-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 22:27
Solids:	95.66	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.996	8.023286	0.0273		0.00056	50.0
gamma-BHC	* 1	8.6	8.628	0.028		0.00080	17.4
beta-BHC	* 1	8.8	8.816429	0.0164		0.011	247.4
delta-BHC	* 1	9.096	9.124286	0.0283		0.00094	0.0
Heptachlor	* 1	9.437	9.463429	0.0264		0.012	1.1
Endrin	* 1	12.231	12.26457	0.0336		0.023	135.3
Endosulfan sulfate	* 1	13.823	13.853	0.03		0.027	102.3
Endrin ketone	* 1	14.206	14.25229	0.0463		0.0082	360.9
alpha-BHC	2	7.846	7.838	0.008		0.00084	50.0
gamma-BHC	2	8.471	8.497428	0.0264		0.00094	17.4
beta-BHC	2	8.663	8.687429	0.0244		0.0033	247.4
delta-BHC	2	9.154	9.180286	0.0263		0.00094	0.0
Heptachlor	2	9.213	9.237571	0.0246		0.012	1.1
Aldrin	2	9.746	9.759429	0.0134		0.0031	0.0
Endrin	2	12.117	12.121	0.004		0.054	135.3
Endosulfan sulfate	2	13.302	13.32643	0.0244		0.013	102.3
Endrin ketone	2	14.101	14.08214	0.0189		0.038	360.9
2,4,5,6-TCMX	* 1	6.82	6.848286	0.0283		0.0336	5.6
2,4,5,6-TCMX	2	6.54	6.564286	0.0243		0.0318	5.6
DBC	* 1	14.124	14.10214	0.0219		0.0348	56.6
DBC	2	13.888	13.90914	0.0211		0.0546	56.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB105-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-04	File ID:	9LJA013-0
Sampled:	11/30/06 16:15	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 22:53
Solids:	88.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.121	11.14771	0.0267		0.0013	34.3
Chlordane-alpha	* 1	11.314	11.34971	0.0357		0.0014	16.7
4,4'-DDE	* 1	11.457	11.48286	0.0259		0.0029	6.4
Dieldrin	* 1	11.893	11.91886	0.0259		0.00026	114.3
4,4'-DDD	* 1	12.35	12.37786	0.0279		0.00068	16.7
Chlordane-gamma	2	10.948	10.97329	0.0253		0.0018	34.3
Chlordane-alpha	2	11.168	11.19143	0.0234		0.0016	16.7
4,4'-DDE	2	11.452	11.47543	0.0234		0.0031	6.4
Dieldrin	2	11.649	11.67429	0.0253		0.00057	114.3
4,4'-DDD	2	12.302	12.32514	0.0231		0.00079	16.7
2,4,5,6-TCMX	* 1	6.82	6.848286	0.0283		0.0301	2.9
2,4,5,6-TCMX	2	6.54	6.564286	0.0243		0.0309	2.9
DBC	* 1	14.078	14.10214	0.0241		0.0347	2.7
DBC	2	13.887	13.90914	0.0221		0.0338	2.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05	File ID:	9LJA015-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/15/06 23:44
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	1	8.003	8.023286	0.0203		0.0030	45.8
gamma-BHC	* 1	8.601	8.628	0.027		0.0024	3.0
beta-BHC	1	8.786	8.816429	0.0304		0.027	112.6
delta-BHC	* 1	9.097	9.124286	0.0273		0.0015	20.5
Heptachlor	* 1	9.438	9.463429	0.0254		0.0029	25.9
Aldrin	* 1	9.937	9.967572	0.0306		0.0017	469.4
Endosulfan sulfate	1	13.877	13.853	0.024		0.0077	479.5
Endrin ketone	* 1	14.278	14.25229	0.0257		0.0013	4800.0
alpha-BHC	* 2	7.813	7.838	0.025		0.0020	45.8
gamma-BHC	2	8.473	8.497428	0.0244		0.0023	3.0
beta-BHC	* 2	8.662	8.687429	0.0254		0.013	112.6
delta-BHC	2	9.155	9.180286	0.0253		0.0018	20.5
Heptachlor	2	9.216	9.237571	0.0216		0.0037	25.9
Aldrin	2	9.748	9.759429	0.0114		0.0096	469.4
Endosulfan sulfate	* 2	13.301	13.32643	0.0254		0.045	479.5
Endrin ketone	2	14.062	14.08214	0.0201		0.062	4800.0
2,4,5,6-TCMX	* 1	6.821	6.848286	0.0273		0.0307	19.4
2,4,5,6-TCMX	2	6.54	6.564286	0.0243		0.0366	19.4
DBC	* 1	14.082	14.10214	0.0201		0.148	255.4
DBC	2	13.888	13.90914	0.0211		0.0418	255.4

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB107-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-07	File ID:	9LJA017.0
Sampled:	11/30/06 16:38	Prepared:	12/13/06 12:00	Analyzed:	12/16/06 00:36
Solids:	98.00	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.996	8.023286	0.0273		0.00041	33.3
gamma-BHC	* 1	8.602	8.628	0.026		0.0013	20.5
beta-BHC	* 1	8.79	8.816429	0.0264		0.0026	24.7
delta-BHC	* 1	9.097	9.124286	0.0273		0.00041	25.0
Heptachlor	* 1	9.437	9.463429	0.0264		0.0021	4.8
Endrin	* 1	12.235	12.26457	0.0296		0.052	16.7
4,4'-DDD	* 1	12.409	12.37786	0.0311		0.060	83.9
Endosulfan II	* 1	12.575	12.60057	0.0256		0.0033	3056.2
Methoxychlor	* 1	13.472	13.48543	0.0134		0.025	21.5
Endosulfan sulfate	* 1	13.878	13.853	0.025		0.0036	119.6
Endrin ketone	* 1	14.273	14.25229	0.0207		0.0014	1311.9
alpha-BHC	2	7.813	7.838	0.025		0.00031	33.3
gamma-BHC	2	8.473	8.497428	0.0244		0.0016	20.5
beta-BHC	2	8.664	8.687429	0.0234		0.0033	24.7
delta-BHC	2	9.156	9.180286	0.0243		0.00051	25.0
Heptachlor	2	9.214	9.237571	0.0236		0.0022	4.8
Aldrin	2	9.749	9.759429	0.0104		0.0022	0.0
Endrin	2	12.099	12.121	0.022		0.060	16.7
4,4'-DDD	2	12.36	12.32514	0.0349		0.033	83.9
Endosulfan II	2	12.476	12.43571	0.0403		0.10	3056.2
Methoxychlor	2	13.777	13.77371	0.00329		0.031	21.5
Endosulfan sulfate	2	13.303	13.32643	0.0234		0.0080	119.6
Endrin ketone	2	14.1	14.08214	0.0179		0.020	1311.9
2,4,5,6-TCMX	* 1	6.821	6.848286	0.0273		0.0305	2.2
2,4,5,6-TCMX	2	6.54	6.564286	0.0243		0.0299	2.2
DBC	* 1	14.08	14.10214	0.0221		0.0636	75.3
DBC	2	13.887	13.90914	0.0221		0.0363	75.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05RE1	File ID:	9LPA021-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 21:45
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.845	10.95643	0.111		0.17	24.7
Endrin	* 1	12.148	12.26457	0.117		0.20	24.4
Methoxychlor	* 1	13.381	13.48543	0.104		0.089	59.3
Heptachlor epoxide	2	10.579	10.67843	0.0994		0.13	24.7
Endrin	2	12.019	12.121	0.102		0.25	24.4
Methoxychlor	2	13.674	13.77371	0.0997		0.056	59.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB105-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03RE1	File ID:	9LPA022-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 22:11
Solids:	95.66	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.845	10.95643	0.111		0.098	27.0
Chlordane-gamma	* 1	11.036	11.14771	0.112		0.40	15.6
Chlordane-alpha	* 1	11.226	11.34971	0.124		0.52	0.4
Dieldrin	* 1	11.808	11.91886	0.111		0.40	17.8
4,4'-DDD	* 1	12.268	12.37786	0.11		0.30	40.1
Methoxychlor	* 1	13.386	13.48543	0.0994		0.036	126.1
Heptachlor epoxide	2	10.579	10.67843	0.0994		0.077	27.0
Chlordane-gamma	2	10.873	10.97329	0.1		0.46	15.6
Chlordane-alpha	2	11.094	11.19143	0.0974		0.52	0.4
Dieldrin	2	11.574	11.67429	0.1		0.47	17.8
4,4'-DDD	2	12.226	12.32514	0.0991		0.43	40.1
Methoxychlor	2	13.661	13.77371	0.113		0.016	126.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-01RE1	File ID:	9LPA024-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/21/06 23:03
Solids:	95.95	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.035	11.14771	0.113		0.12	25.5
4,4'-DDE	* 1	11.375	11.48286	0.108		0.53	0.7
Methoxychlor	* 1	13.381	13.48543	0.104		0.038	0.0
Chlordane-gamma	2	10.871	10.97329	0.102		0.15	25.5
4,4'-DDE	2	11.379	11.47543	0.0964		0.53	0.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB106-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-06	File ID:	9LQA004-0
Sampled:	11/30/06 16:29	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 12:06
Solids:	95.64	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.018	11.14771	0.13		0.00028	14.3
Dieldrin	* 1	11.789	11.91886	0.13		0.00049	7.1
4,4'-DDT	* 1	12.655	12.78071	0.126		0.0062	2.8
Chlordane-gamma	2	10.853	10.97329	0.12		0.00024	14.3
Chlordane-alpha	2	11.075	11.19143	0.116		0.00028	0.0
Dieldrin	2	11.554	11.67429	0.12		0.00052	7.1
4,4'-DDD	2	12.208	12.32514	0.117		0.00031	0.0
4,4'-DDT	2	12.657	12.77157	0.115		0.0064	2.8
Endrin aldehyde	2	12.883	12.927	0.044		0.0011	0.0
2,4,5,6-TCMX	* 1	6.714	6.848286	0.134		0.0335	2.2
2,4,5,6-TCMX	2	6.446	6.564286	0.118		0.0328	2.2
DBC	* 1	13.978	14.10214	0.124		0.0346	0.6
DBC	2	13.799	13.90914	0.11		0.0349	0.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB107-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-08	File ID:	9LQA005-0
Sampled:	11/30/06 16:44	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 12:58
Solids:	94.85	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.018	11.14771	0.13		0.0012	9.4
Chlordane-alpha	* 1	11.216	11.34971	0.134		0.0013	5.3
4,4'-DDE	* 1	11.359	11.48286	0.124		0.0014	0.0
Dieldrin	* 1	11.791	11.91886	0.128		0.0015	2.3
4,4'-DDT	* 1	12.657	12.78071	0.124		0.0029	1.2
Chlordane-gamma	2	10.855	10.97329	0.118		0.0011	9.4
Chlordane-alpha	2	11.077	11.19143	0.114		0.0014	5.3
4,4'-DDE	2	11.365	11.47543	0.11		0.0014	0.0
Dieldrin	2	11.556	11.67429	0.118		0.0016	2.3
4,4'-DDT	2	12.66	12.77157	0.112		0.0030	1.2
2,4,5,6-TCMX	* 1	6.716	6.848286	0.132		0.0322	0.7
2,4,5,6-TCMX	2	6.446	6.564286	0.118		0.0319	0.7
DBC	* 1	13.98	14.10214	0.122		0.0331	1.0
DBC	2	13.801	13.90914	0.108		0.0334	1.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB105-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-03RE2	File ID:	9LQA006-0
Sampled:	11/30/06 16:10	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 13:24
Solids:	95.66	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDE	* 1	11.359	11.48286	0.124		1.4	6.5
4,4'-DDT	* 1	12.656	12.78071	0.125		4.4	4.6
4,4'-DDE	2	11.366	11.47543	0.109		1.5	6.5
4,4'-DDT	2	12.659	12.77157	0.113		4.6	4.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-05RE2	File ID:	9LQA007-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 13:49
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	11.019	11.14771	0.129		1.3	0.0
Chlordane-alpha	* 1	11.216	11.34971	0.134		1.7	2.9
4,4'-DDE	* 1	11.361	11.48286	0.122		1.6	8.5
Dieldrin	* 1	11.792	11.91886	0.127		3.4	6.2
4,4'-DDD	* 1	12.254	12.37786	0.124		0.82	90.0
Chlordane-gamma	2	10.856	10.97329	0.117		1.3	0.0
Chlordane-alpha	2	11.078	11.19143	0.113		1.6	2.9
4,4'-DDE	2	11.366	11.47543	0.109		1.8	8.5
Dieldrin	2	11.557	11.67429	0.117		3.7	6.2
4,4'-DDD	2	12.211	12.32514	0.114		1.6	90.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB100-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-01RE2	File ID:	9LQA010-0
Sampled:	11/30/06 15:35	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 15:33
Solids:	95.95	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.254	12.37786	0.124		0.46	53.4
4,4'-DDT	* 1	12.657	12.78071	0.124		1.3	4.2
4,4'-DDD	2	12.213	12.32514	0.112		0.70	53.4
4,4'-DDT	2	12.66	12.77157	0.112		1.4	4.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB106-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-011	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610373-05RE3	File ID:	9LQA011-0
Sampled:	11/30/06 16:24	Prepared:	12/13/06 12:00	Analyzed:	12/22/06 15:58
Solids:	97.06	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,		GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF	

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.659	12.78071	0.122		27	4.4
4,4'-DDT	2	12.661	12.77157	0.111		28	4.4

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB100-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-02RE1	File ID:	9A4A004-0
Sampled:	11/30/06 15:46	Prepared:	12/13/06 12:00	Analyzed:	01/04/07 13:29
Solids:	94.83	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m,32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.138	12.37786	0.24		1.0	4.6
4,4'-DDD	2	12.11	12.32514	0.215		0.98	4.6

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB100-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-02RE2	File ID:	9AJA006-0
Sampled:	11/30/06 15:46	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 18:30
Solids:	94.83	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00193		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.406	12.78071	0.375		0.014	2.3
4,4'-DDT	2	12.425	12.77157	0.347		0.013	2.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB105-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-04RE1	File ID:	9AJA007-0
Sampled:	11/30/06 16:15	Prepared:	12/13/06 12:00	Analyzed:	01/15/07 18:56
Solids:	88.32	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00193		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.41	12.78071	0.371		0.0039	2.9
4,4'-DDT	2	12.429	12.77157	0.343		0.0040	2.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB107-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-07RE1	File ID:	9AMA004A-0
Sampled:	11/30/06 16:38	Prepared:	12/13/06 12:00	Analyzed:	01/18/07 14:23
Solids:	98.00	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.515	10.95643	0.441		0.082	41.2
Chlordane-gamma	* 1	10.708	11.14771	0.44		0.50	1.6
Chlordane-alpha	* 1	10.902	11.34971	0.448		0.75	32.6
4,4'-DDE	* 1	11.062	11.48286	0.421		0.67	2.1
Dieldrin	* 1	11.477	11.91886	0.442		0.82	2.2
Heptachlor epoxide	2	10.27	10.67843	0.408		0.058	41.2
Chlordane-gamma	2	10.563	10.97329	0.41		0.51	1.6
Chlordane-alpha	2	10.786	11.19143	0.405		0.56	32.6
4,4'-DDE	2	11.085	11.47543	0.39		0.65	2.1
Dieldrin	2	11.265	11.67429	0.409		0.80	2.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB107-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-011
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610373-07RE2	File ID:	9AMA005A-0
Sampled:	11/30/06 16:38	Prepared:	12/13/06 12:00	Analyzed:	01/18/07 14:49
Solids:	98.00	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L13017	Sequence:	BA00094		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.357	12.78071	0.424		1.4	8.8
4,4'-DDT	2	12.379	12.77157	0.393		1.5	8.8

* Column used for quantitation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**FEBRUARY 26, 2007**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC / SPLP ARSENIC**
NAS JACKSONVILLE – CTO 047
SAMPLE DELIVERY GROUP (SDG) – BR006-011

SAMPLES: 4/Leachates/

JAX47-SB100-01-113006 JAX47-SB105-01-113006
JAX47-SB106-01-113006 JAX47-SB107-01-113006

8/Soils/

JAX47-SB100-01-113006 JAX47-SB100-05-113006
JAX47-SB105-01-113006 JAX47-SB105-05-113006
JAX47-SB106-01-113006 JAX47-SB106-05-113006
JAX47-SB107-01-113006 JAX47-SB107-05-113006

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-011, consists of four (4) leachate and eight (8) soil environmental samples. No field duplicate pairs were included in this SDG.

All samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS, Inc. on November 30, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using EPA methods 1312/3050B and 6010B methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Notes

None.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", October 2004.

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Chemist / Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. *Appendix B - Results as reported by the Laboratory*
3. Appendix C - Support Documentation

Appendix A
Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB100-01-113006	nsample	JAX47-SB100-05-113006	nsample	JAX47-SB105-01-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610373-01	lab_id	B610373-02	lab_id	B610373-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.0	Pct_Solids	94.8	Pct_Solids	95.7
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.8		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.1		

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB105-05-113006	nsample	JAX47-SB106-01-113006	nsample	JAX47-SB106-05-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610373-04	lab_id	B610373-05	lab_id	B610373-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	88.3	Pct_Solids	97.1	Pct_Solids	95.6
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	132		

Parameter	Result	Val Qual	Qual Code
ARSENIC	4.9		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB107-01-113006	nsample	JAX47-SB107-05-113006
samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610373-07	lab_id	B610373-08
qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG
Pct_Solids	98.0	Pct_Solids	94.8
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.9		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4		

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB100-01-113006	nsample	JAX47-SB105-01-113006	nsample	JAX47-SB106-01-113006
samp_date	11/30/2006	samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610373-01	lab_id	B610373-03	lab_id	B610373-05
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids	96.0	Pct_Solids	95.7	Pct_Solids	97.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.008		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.028		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004		

PROJ_NO: 00497

SDG: BR006-011 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB107-01-113006
samp_date	11/30/2006
lab_id	B610373-07
qc_type	NM
units	MG/L
Pct_Solids	98.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Appendix B
Results as reported by the Laboratory

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB100-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-011

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610373-01 | File ID: 011107a-052

Sampled: 11/30/06 15:35 | Prepared: 01/10/07 16:05 | Analyzed: 01/11/07 14:58

Solids: 95.95 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10027 | Sequence: BA00159 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.008	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB105-01-113006

Laboratory: ENCO Jacksonville — SDG: BR006-011

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610373-03 — *File ID:* 011107a-053

Sampled: 11/30/06 16:10 — Prepared: 01/10/07 16:05 — Analyzed: 01/11/07 15:05

Solids: 95.66 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10027 — Sequence: BA00159 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.028	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB106-01-113006

Laboratory: ENCO Jacksonville — SDG: BR006-011

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610373-05 — *File ID:* 011107a-054

Sampled: 11/30/06 16:24 — Prepared: 01/10/07 16:05 — Analyzed: 01/11/07 15:12

Solids: 97.06 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10027 — Sequence: BA00159 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.004	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB107-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: *soil*
Laboratory ID: *B610373-07*
File ID: *011107a-055*
Sampled: 11/30/06 16:38
Prepared: 01/10/07 16:05
Analyzed: 01/11/07 15:19
Solids: 98.00
Preparation: EPA 3010A
Initial/Final: 50 mL / 50 mL
Batch: 7A10027
Sequence: BA00159
Calibration: 0701006
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB100-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-011

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610373-01 | File ID: 122106a-110

Sampled: 11/30/06 15:35 | Prepared: 12/15/06 14:33 | Analyzed: 12/22/06 04:27

Solids: 95.95 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15016 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	3.8	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB100-05-113006

Laboratory: ENCO Jacksonville — SDG: BR006-011

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610373-02 — File ID: 122106a-114

Sampled: 11/30/06 15:46 — Prepared: 12/15/06 14:33 — Analyzed: 12/22/06 04:55

Solids: 94.83 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15016 — Sequence: BA00116 — Calibration: 0612017 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB105-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-011

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: *soil* | *Laboratory ID:* B610373-03 | File ID: 122106a-115

Sampled: 11/30/06 16:10 | Prepared: 12/15/06 14:33 | Analyzed: 12/22/06 05:01

Solids: 95.66 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15016 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.1	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB105-05-113006

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: *soil* *Laboratory ID:* *B610373-04* *File ID:* *122106a-116*

Sampled: 11/30/06 16:15 Prepared: 12/15/06 14:33 Analyzed: 12/22/06 05:07

Solids: 88.32 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15016 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	132	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB106-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-011

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610373-05 | *File ID:* 122106a-117

Sampled: 11/30/06 16:24 | Prepared: 12/15/06 14:33 | Analyzed: 12/22/06 05:14

Solids: 97.06 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15016 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	4.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB106-05-113006

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610373-06 *File ID:* 122106a-118

Sampled: 11/30/06 16:29 Prepared: 12/15/06 14:33 Analyzed: 12/22/06 05:21

Solids: 95.64 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15016 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB107-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-011

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610373-07 | File ID: 122106a-119

Sampled: 11/30/06 16:38 | Prepared: 12/15/06 14:33 | Analyzed: 12/22/06 05:28

Solids: 98.00 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15016 | Sequence: BA00116 | Calibration: 0612017 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB107-05-113006

Laboratory: ENCO Jacksonville SDG: BR006-011

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: *soil* *Laboratory ID:* B610373-08 *File ID:* 122106a-120

Sampled: 11/30/06 16:44 Prepared: 12/15/06 14:33 Analyzed: 12/22/06 05:35

Solids: 94.85 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15016 Sequence: BA00116 Calibration: 0612017 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

Appendix C
Support Documentation

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins

Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@enclabs.com, c=US
Date: 2007.01.25 10:21:06 -05'00'

Christina M. Tompkins
Project Manager

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- DBC surrogate recoveries for JAX47-SB100-01-113006, JAX47-SB106-01-113006, JAX47-SB107-01-113006 were outside the DoD QSM control limits due to sample matrix.
- Continuing Calibration Verification Standard 9LJA014 result for 4,4-DDT and Methoxychlor were outside and below the DoD QSM. None of the samples had any reportable data associated with this standard, however the laboratory control standard, matrix spike, matrix spike duplicate and associate batch blank were reported using this continuing calibration verification standard. All the quality control was within the DoD QSM control limits and the batch blank ran after a passing calibration verification standard.
- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits due to the sample matrix.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.23 13:58:06 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No: 112G00497	Facility: JACKSONVILLE NAS	Project Manager: Mark Peterson	Carrier: Hand Deliver	Laboratory Name: Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216
Task No: CTO 0047	Turn Around Time: Standard	Field Ops Leader: Charles Metz	Carrier/Waybill No.	Point of Contact: Lab Contact 904-296-3007

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	SW-846 8081A and 8270C Extended	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	SW-846 6010B or 6020 (filtered)	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	SW-846 8260B Extended	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	SW-846 6010B or 6020	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	SW-846 8260B Extended	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	SW-846 6010B or 6020 (filtered)	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	SW-846 8081A and 8270C Extended	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	SW-846 6010B or 6020	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	SW-846 6010B or 6020	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	SW-846 8081A and 8270C Extended	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	SW-846 8081A and 8270C Extended	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	SW-846 8260B Extended	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	SW-846 6010B or 6020	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	SW-846 8260B Extended	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	SW-846 6010B or 6020	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	SW-846 8081A	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

11/30/2006	JAX47-SB099-05-113006	15:30	SW-846 6010B or 6020	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	SW-846 6010B or 6020	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	SW-846 8081A	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	SW-846 8081A	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	SW-846 6010B or 6020	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	SW-846 8081A	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	SW-846 6010B or 6020	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	SW-846 8081A	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	SW-846 6010B or 6020	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	SW-846 6010B or 6020	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	SW-846 8081A	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	SW-846 6010B or 6020	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	SW-846 8081A	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	SW-846 6010B or 6020	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	SW-846 8081A	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	SW-846 8081A	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	SW-846 6010B or 6020	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	SW-846 6010B or 6020	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	SW-846 8081A	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	SW-846 8081A	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	SW-846 6010B or 6020	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	SW-846 8081A and 8270C Extended	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	SW-846 6010B or 6020	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	SW-846 8260B	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-011

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Water* ***Instrument:*** *JMICP1*

Analyte	MDL	MRL	Units
Arsenic	0.004	0.010	mg/L

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-011

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Soil* ***Instrument:*** *JMICP1*

Analyte	MDL	MRL	Units
Arsenic	0.2	0.5	mg/kg

Pb 220.353	4,125.0	0.3353	0.00121	mg/L	0.3353	0.00121	mg/L	0.36 %
Sb 206.833	12.4	0.0008	0.00284	mg/L	0.0008	0.00284	mg/L	347.43 %
Se 196.026	-7.4	-0.0012	0.00378	mg/L	-0.0012	0.00378	mg/L	314.62 %
Sn 189.933	64.7	0.0124	0.00098	mg/L	0.0124	0.00098	mg/L	7.90 %
Sr 421.539R	53,374.1	0.0628	0.00250	mg/L	0.0628	0.00250	mg/L	3.98 %
Ti 337.280	188,620.0	0.2464	0.00106	mg/L	0.2464	0.00106	mg/L	0.43 %
Tl 190.800	7.3	0.0056	0.00165	mg/L	0.0056	0.00165	mg/L	29.34 %
V 292.402	6,016.4	0.0217	0.00018	mg/L	0.0217	0.00018	mg/L	0.85 %
Zn 206.191	11,683.1	0.2524	0.00063	mg/L	0.2524	0.00063	mg/L	0.25 %

Mean Data

ID: b610373-04 **Seq. No.:** 116 **A/S Pos:** 103

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2006/12/22 05:06:06

Analyte	*Corr. Intensity*	*Conc (Calib)*	*Std. Dev.*	*Calib Units*	*Conc (Sample)*	*Std. Dev.*	*Sample Units*	*RSD*
Y 324.228R	221,121.8	97.4	0.21	%			%	0.22 %
Y361.105A	1,414,207.4	96.6	0.34	%			%	0.36 %
Ag 338.289	-811.6	-0.0039	0.00027	mg/L	-0.0039	0.00027	mg/L	6.73 %
Ag 328.068	-1,422.4	-0.0030	0.00004	mg/L	-0.0030	0.00004	mg/L	1.42 %
Al 308.215	344,344.9	135	5.4	mg/L	135	5.4	mg/L	3.98 %
As 188.979	5,666.6	2.339	0.0084	mg/L	2.339	0.0084	mg/L	0.36 %
Ba 233.527	58,280.5	0.3509	0.00096	mg/L	0.3509	0.00096	mg/L	0.27 %
Be 313.107	7,075.5	0.0011	0.00002	mg/L	0.0011	0.00002	mg/L	2.16 %
B 208.959	156.2	0.0089	0.00023	mg/L	0.0089	0.00023	mg/L	2.54 %
Ca 317.933	2,426,856.9	10.20	0.026	mg/L	10.20	0.026	mg/L	0.25 %
Ca Radial	266,211.1	10.24	0.443	mg/L	10.24	0.443	mg/L	4.33 %
Cd 226.502	680.7	0.0017	0.00021	mg/L	0.0017	0.00021	mg/L	12.24 %

Sample calc.

JAX47-SB105-05-113006

As reported result 132 mg/kg

$$\left(2.339\right)\left(\frac{50\,ml}{1\,g}\right)\left(\frac{1}{.883}\right) = 132.4\ mg/kg$$

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-011

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	0.2	0.5	mg/kg

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00116
Calibration: 0612017

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00116-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00116-CCB1	Arsenic	4.49E-5	0.01	mg/L		EPA 6010B
BA00116-CCB2	Arsenic	0.000351	0.01	mg/L		EPA 6010B
BA00116-CCB3	Arsenic	0.00115	0.01	mg/L		EPA 6010B
BA00116-CCB4	Arsenic	0.000939	0.01	mg/L		EPA 6010B
BA00116-CCB5	Arsenic	0.00152	0.01	mg/L		EPA 6010B
BA00116-CCB6	Arsenic	-0.000318	0.01	mg/L		EPA 6010B
BA00116-CCB7	Arsenic	0.000808	0.01	mg/L		EPA 6010B
6L15016-BLK1	Arsenic	-0.00481	0.5	mg/kg wet		EPA 6010B
BA00116-CCB8	Arsenic	0.00224	0.01	mg/L		EPA 6010B
BA00116-CCB9	Arsenic	-7.05E-5	0.01	mg/L		EPA 6010B

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-011

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	0.004	0.010	mg/L

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-011
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00159
Calibration: 0701006

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00159-ICB1	Arsenic	0.00	0.010	mg/L		EPA 6010B
BA00159-CCB1	Arsenic	0.000209	0.010	mg/L		EPA 6010B
7A10027-BLK1	Arsenic	0.000398	0.010	mg/L		EPA 6010B
BA00159-CCB2	Arsenic	2.74E-5	0.010	mg/L		EPA 6010B
BA00159-CCB3	Arsenic	0.00280	0.010	mg/L		EPA 6010B

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **MARCH 7, 2007**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- PEST**
CTO 047, NAS JACKSONVILLE
SDG BR006-012

SAMPLES: 20/Solid

JAX47-DU02-120106	JAX47-DU03-120106	JAX47-SB078-01-120106
JAX47-SB078-06-120106	JAX47-SB079-01-120106	JAX47-SB079-06-120106
JAX47-SB080-01-120106	JAX47-SB080-05-120106	JAX47-SB081-02-120106
JAX47-SB081-05-120106	JAX47-SB082-02-120106	JAX47-SB082-05-120106
JAX47-SB083-01-120106	JAX47-SB083-05-120106	JAX47-SB087-01-120106
JAX47-SB087-05-120106	JAX47-SB088-03-120106	JAX47-SB088-06-120106
JAX47-SB110-01-113006	JAX47-SB110-05-113006	

8/SPLP

JAX47-SB081-02-120106	JAX47-SB081-05-120106	JAX47-SB082-02-120106
JAX47-SB082-05-120106	JAX47-SB083-01-120106	JAX47-SB083-05-120106
JAX47-SB110-01-113006	JAX47-SB110-05-113006	

OVERVIEW

The sample set for CTO 047 NAS Jacksonville, SDG BR006-013 consists of twenty (20) solid environmental samples and eight (8) Synthetic Precipitation Leaching Procedure (SPLP) samples. Two field duplicates were included in this SDG: JAX47-SB091-04-120106 / JAX47-DU02-120106 and JAX47-SB090-03-120106 / JAX47-DU03-120106. The results for samples JAX47-SB091-04-120106 and JAX47-SB090-03-120106 are contained in SDG BR006-013. The samples were analyzed for pesticides (PEST) organic compounds.

The samples were collected by TetraTech NUS on December 1, 2006 and analyzed by Environmental Conservation Laboratories, Inc. SPLP extractions and all analyses were conducted in accordance with SW-846 Methods 1312 and 8081A analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial/continuing calibrations
• Laboratory method blank results
• Surrogate Recoveries
• Blank Spike/Blank Spike Duplicate Results
• Matrix Spike/Matrix Spike Duplicate Results
• Field Duplicate Results

* • Compound Quantitation
• Compound Identification
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Soil Pesticides

The sample JAX47-SB110-01-113006 was extracted one day outside of the 14 day extraction hold time. The positive and non-detected results for sample JAX47-SB110-01-113006 have been qualified as estimated (J) and (UJ), respectively.

The following compound was detected in the method blanks at the maximum concentration below:

Compound	Maximum Concentration	Blank Action Level
4,4'-DDT	0.000300 mg/kg	0.0015 mg/kg

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. The method blank was reported on a wet weight basis. The positive 4,4'-DDT result in sample JAX47-SB078-06-120106, JAX47-SB079-06-120106, JAX47-SB080-01-120106, JAX47-SB080-05-120106, JAX47-SB081-02-120106, and JAX47-SB081-05-120106 below the blank action level were qualified as non-detected, (U).

Calibration verification percent differences (%Ds) exceeded the 15% quality control limits for methoxychlor on instrument JSVGCECD2, on 1/03/07, at 17:36 for the primary column and secondary column. No action was taken on this basis because the associated samples were dilutions and methoxychlor was not reported from the diluted analysis.

Calibration verification %Ds exceeded the 15% quality control limits for 4,4'-DDD and 4,4'-DDT on instrument JSVGCECD2, on 12/21/06, at 21:20 for the primary column and secondary column. The positive results for 4,4'-DDT in samples JAX47-SB087-05-120106 and JAX47-DU02-120106 have been qualified as estimated (J).

Calibration verification %Ds exceeded the 15% quality control limits for 4,4'-DDT and methoxychlor on instrument JSVGCECD2, on 12/27/06, at 04:46 for the primary column and secondary column. The positive and non-detected results for 4,4'-DDT and methoxychlor in samples JAX47-DU03-120106, JAX47-SB078-01-120106, and JAX47-SB078-06-120106 have been qualified as estimated (J) or (UJ), respectively. The non-detected results for methoxychlor in samples JAX47-DU02-120106 and JAX47-SB110-05-113006 have been qualified as estimated (UJ).

Calibration verification %Ds exceeded the 15% quality control limits for 4,4'-DDT and methoxychlor on instrument JSVGCECD2, on 12/27/06, at 10:46 for the primary column and secondary column. The positive result for methoxychlor in sample JAX47-SB087-01-120106 has been qualified as estimated (J). No action was required for 4,4'-DDT.

Calibration verification %Ds exceeded the 15% quality control limits for heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDE, endosulfan I, dieldrin, endosulfan II, 4,4'-DDT, endrin aldehyde, and methoxychlor on instrument JSVGCECD2, on 12/27/06, at 15:13 for the primary column. The secondary column had %Ds that exceeded the quality control limits for heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDE, endosulfan I, dieldrin, endosulfan II, 4,4'-DDT, endrin aldehyde, methoxychlor, and endrin ketone. The positive and non-detected results for heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDE, endosulfan I, dieldrin, endosulfan II, and endrin aldehyde, in samples JAX47-SB088-03-120106, JAX47-SB088-06-120106, and JAX47-SB087-05-120106 have been qualified as estimated (J) and (UJ), respectively. The positive and non-detected results for heptachlor epoxide, gamma-chlordane, alpha-chlordane, endosulfan I, dieldrin, methoxychlor, and endrin aldehyde, in sample JAX47-SB087-01-120106 have been qualified as estimated (J) and (UJ), respectively. No action was taken on the endrin ketone results because the primary column met the control limit.

Calibration verification %Ds exceeded the 15% quality control limits for 4,4'-DDT and endrin ketone on instrument JSVGCECD2, on 12/20/06, at 11:59 for the primary column. The secondary column had %Ds that exceeded the quality control limits for alpha-BHC, gamma-BHC, beta-BHC, delta-BHC, heptachlor, aldrin, heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDT, and endrin ketone. The positive and non-detected results for 4,4'-DDT and endrin ketone in samples JAX47-SB079-06-120106 and JAX47-SB082-02-120106 have been qualified as estimated (J) and (UJ), respectively. No action was taken on the other compounds because they were not detected and within the control limits for the primary column.

Calibration verification %D exceeded the 15% quality control limit for 4,4'-DDT on instrument JSVGCECD2, on 12/20/06, at 16:23 for the primary column. The secondary column had %Ds that exceeded the quality control limits for gamma-chlordane, alpha-chlordane, endosulfan II, 4,4'-DDT, and endrin ketone. The positive results for 4,4'-DDT in samples JAX47-SB079-06-120106 and JAX47-SB082-02-120106 have been qualified as estimated (J). No action was taken on the other compounds because they were not detected and within the control limits for the primary column.

Calibration verification %Ds exceeded the 15% quality control limits for 4,4'-DDT and methoxychlor on instrument JSVGCECD2, on 12/20/06, at 18:06 for the primary column and secondary column. The positive result for methoxychlor in sample JAX47-SB110-01-113006 has been qualified as estimated (J).

Calibration verification %Ds exceeded the 15% quality control limits for alpha-BHC, heptachlor, aldrin, heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDE, endosulfan I, dieldrin, endosulfan II, 4,4'-DDT, methoxychlor, and endrin ketone on instrument JSVGCECD2, on 12/12/06, at 00:56 for the primary column. The secondary column had %Ds that exceeded the quality control limits for 4,4'-DDT and methoxychlor. The non-detected result for methoxychlor in sample JAX47-SB081-02-120106 has been qualified as estimated (UJ). No action was taken on the other compounds because they were not detected and within the control limits for the secondary column.

Calibration verification %Ds exceeded the 15% quality control limits for heptachlor, alpha-chlordane, endosulfan I, 4,4'-DDT, and methoxychlor on instrument JSVGCECD2, on 12/12/06, at 05:41 for the primary column. The secondary column had %Ds that exceeded the quality control limits for 4,4'-DDT and methoxychlor. The non-detected result for methoxychlor in sample JAX47-SB081-02-120106 have been qualified as estimated (UJ). No action was taken on the other compounds because they were not detected and within the control limits for the secondary column.

Calibration verification %Ds exceeded the 15% quality control limits for beta-BHC and delta-BHC on instrument JSVGCECD2, on 1/16/06, at 01:49 for the primary column and secondary column. No action was taken on this basis because beta-BHC and delta-BHC were not reported from the sample runs associated with this calibration verification.

Calibration verification %Ds exceeded the 15% quality control limits for beta-BHC and delta-BHC on instrument JSVGCECD2, on 1/16/06, at 03:07 for the primary column and secondary column. No action was taken on this basis because beta-BHC and delta-BHC were not reported from the sample run associated with this calibration verification.

The surrogate tetrachloro-m-xylene had percent recoveries less than the quality control limit for method blank (6L08006-BLK1) on both columns. No action was taken on this basis because QC samples are not qualified.

The surrogate tetrachloro-m-xylene had percent recoveries less than the quality control limit for samples JAX47-SB088-06-120106, JAX47-SB087-01-120106, JAX47-SB080-05-120106, JAX47-SB081-02-120106, JAX47-SB081-05-120106, and JAX47-SB82-05-120106 or reanalyses associated with these samples on both columns. The positive and non-detected results for the aforementioned samples have been qualified as estimated (J) and (UJ), respectively.

The surrogate tetrachloro-m-xylene had percent recoveries less than the quality control limit for samples JAX47-SB079-01-120106 and JAX47-SB080-01-120106 on both columns. The positive and non-detected results for all compounds in the aforementioned samples have been qualified as estimated (J) and (UJ), respectively.

The surrogate tetrachloro-m-xylene had a percent recovery less than the quality control limit and decachlorobiphenyl had a recovery greater than the quality control limit for sample JAX47-SB110-05-113006 on

the primary column. The results for sample JAX47-SB110-05-113006 were reported from the primary column. The positive and non-detected results for JAX47-SB110-05-113006 have been qualified as estimated (J) and (UJ), respectively.

The surrogate decachlorobiphenyl had a percent recovery greater than the quality control limit for sample JAX47-SB110-01-113006 on the confirmation column. The sample was re-analyzed with similar results. No action was taken on this basis because all other surrogate recoveries met control limits.

The surrogate tetrachloro-m-xylene had percent recoveries greater than the quality control limit for sample JAX47-SB087-05-120106RE. No action was taken on this basis because only a non-detected methoxychlor results was reported from this run.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample JAX47-SB110-01-113006 had percent recoveries generally greater than the quality control limits in the MS and less than the quality control limit in the MSD. In addition the relative percent differences (RPDs) for most compounds were outside the quality control limits. Because the percent recoveries and RPDs for most compounds are out of control all positive and non-detected results for sample JAX47-SB110-01-113006 have been qualified as estimated (J) and (UJ), respectively.

The laboratory control sample (LCS) associated with batch 6L08006 had a percent recovery less than the quality control limit for endrin aldehyde on both columns. The positive and non-detected endrin aldehyde results for samples associated with batch 6L08006 have been qualified as estimated (J) and (UJ), respectively.

The field duplicate precision exceeded the 50% relative percent difference (RPD) quality control limit for 4,4'-DDT and gamma-chlordane in the field duplicate pair JAX47-SB090-03-120106 / JAX47-DU03-120106. Positive results for 4,4'-DDT and gamma-chlordane in the duplicate samples JAX47-SB090-03-120106 / JAX47-DU03-120106 were qualified as estimated (J).

The field duplicate precision exceeded the 50% relative percent difference (RPD) quality control criteria and/or was greater than 2X the reporting limit for beta-BHC and delta-BHC in the field duplicate pair JAX47-SB091-04-120106 / JAX47-DU02-120106. The positive and non-detected results for beta-BHC and delta-BHC in the duplicate samples JAX47-SB091-04-120106 / JAX47-DU02-120106 were qualified as estimated (J) and (UJ), respectively.

The laboratory reported heptachlor epoxide as a positive in the electronic database but as a non-detect on the Form I for sample JAX47-SB080-05-120106. The heptachlor epoxide result was not confirmed on the confirmation column. The heptachlor epoxide result for sample JAX47-SB080-05-120106 has been qualified as estimated (UJ) in the database.

The laboratory reported endrin ketone as a positive in the electronic database but as a non-detect on the Form I for sample JAX47-SB083-05-120106. The endrin ketone result was not confirmed on the confirmation column. The endrin ketone result for sample JAX47-SB083-05-120106 has been qualified as estimated (UJ) in the database.

The laboratory reported methoxychlor as a positive in the electronic database but as a non-detect on the Form I for sample JAX47-DU02-120106. The methoxychlor result was not confirmed on the confirmation column. The methoxychlor result for sample JAX47-DU02-120106 has been qualified as estimated (UJ) in the database.

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for several compounds in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	RPD	Qualification
JAX47-SB110-01-113006	4,4'-DDD	42.4%	J
	Endrin aldehyde	42.4%	J
	Endrin ketone	59.9%	J
	beta-BHC	58.6%	J
	Heptachlor epoxide	102%	J
	Methoxychlor	185%	J

	Endosulfan sulfate	43.9%	J
	Endrin ketone	59.9%	J
JAX47-SB110-05-113006	beta-BHC	83.5%	J
	delta-BHC	157	J
	Endrin	132	J
	Endosulfan II	123	J
	Endosulfan sulfate	90.1	J
	Heptachlor epoxide	168	J
JAX47-DU02-120106	gamma-BHC	26.4%	J
	Heptachlor epoxide	48.3%	J
JAX47-DU03-120106	gamma-Chlordane	26.7%	J
	4,4'-DDD	34.6%	J
JAX47-SB078-01-120106	delta-BHC	78.5%	J
	alpha-Chlordane	104%	J
	4,4'-DDD	30.5%	J
JAX47-SB079-01-120106	alpha-Chlordane	27.3%	J
	4,4'-DDD	28.6%	J
	Methoxychlor	119%	J
JAX47-SB080-01-120106	gamma-Chlordane	30.3%	J
JAX47-SB080-05-12106	Endosulfan I	31.6%	J
JAX47-SB082-02-120106	Heptachlor epoxide	93.3%	J
JAX47-SB083-01-120106	beta-BHC	65.4%	J
	Heptachlor epoxide	102%	J
	4,4'-DDD	125%	J
	Endosulfan sulfate	133%	J
	Dieldrin	28%	J
JAX47-SB083-05-120106	4,4'-DDD	158%	J
	Endrin aldehyde	92.3%	J
	Endosulfan I	102%	J
	Methoxychlor	34%	J
JAX47-SB087-01-120106	beta-BHC	91.3%	J
	Heptachlor epoxide	112%	J
	Endrin	96.8%	J
	Endrin ketone	104%	J
	Endosulfan sulfate	146%	J
JAX47-SB087-05-120106	gamma-Chlordane	32.3%	J

SPLP Pesticides

The sample JAX47-SB110-01-113006 SPLP extraction was started one day outside of the 14 day SPLP extraction hold time. The positive and non-detected results for sample JAX47-SB110-01-113006 have been qualified as estimated (J) and (UJ), respectively.

The laboratory reported a result greater than the linear calibration range of the instrument for alpha-chlordane in sample JAX47-SB110-05-113006. The alpha-chlordane result for sample JAX47-SB110-05-113006 has been qualified as estimated (J).

Calibration verification %D exceeded the 15% quality control limits for delta-BHC on instrument JSVGCECD2, on 1/13/07, at 23:47 for the primary column. The secondary column had %Ds that exceeded the quality control limits for beta-BHC and delta-BHC. The non-detected results for delta-BHC in samples JAX47-SB110-05-113006 and JAX47-SB082-02-120106 have been qualified as estimated (UJ). No action was taken on the beta-BHC results because the primary column met the control limit.

Calibration verification %Ds exceeded the 15% quality control limits for alpha-BHC, gamma-BHC, beta-BHC, delta-BHC, endrin, endrin aldehyde, and endosulfan sulfate on instrument JSVGCECD2, on 1/14/07, at 04:31 for the primary column. The secondary column had %Ds that exceeded the quality control limits for alpha-BHC, gamma-BHC, beta-BHC, delta-BHC, gamma-chlordane, endrin, endrin aldehyde, and endosulfan sulfate. The positive and non-detected results for alpha-BHC, gamma-BHC, beta-BHC, delta-BHC, endrin, endrin aldehyde, and endosulfan sulfate in samples JAX47-SB110-05-113006 and JAX47-SB082-02-120106 have been qualified as estimated (J) and (UJ), respectively. The non-detected results for alpha-BHC, gamma-BHC, endrin, endrin aldehyde, and endosulfan sulfate in sample JAX47-SB081-05-120106 have been qualified as estimated (UJ). No action was taken on the gamma-chlordane results because the primary column met the control limit.

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for several compounds in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	% Difference	Qualification
JAX47-SB110-01-113106	Heptachlor epoxide	27.8%	J
	gamma-Chlordane	629%	J
	Methoxychlor	42.9%	J
JAX47-SB110-05-113006	beta-BHC	42.9%	J
	Endosulfan I	508%	J
	Endrin	1450%	J
	Endosulfan sulfate	71.4%	J
	Dieldrin	30.3%	J
	Heptachlor epoxide	581%	J
	alpha-Chlordane	219%	J
	Methoxychlor	120%	J
	4,4'-DDD	36.9%	J
	4,4'-DDT	36.7%	J
	Aldrin	69%	J
JAX47-SB081-02-120106	alpha-Chlordane	190%	J
JAX47-SB081-05-120106	Heptachlor epoxide	250%	J
	alpha-Chlordane	175%	J
JAX47-SB082-02-120106	Heptachlor epoxide	410%	J
	alpha-Chlordane	60.4%	J
JAX47-SB082-05-120106	alpha-Chlordane	117%	J
JAX47-SB083-01-120106	beta-BHC	31.6%	J
	Dieldrin	47.2%	J
	Endrin	36.4%	J
JAX47-SB083-05-120106	alpha-Chlordane	110%	J

Additional Comments:

Soil samples JAX47-SB110-01-113006, JAX47-SB110-05-113006, JAX47-DU02-120106, JAX47-SB082-02-120106, JAX47-SB083-01-120106, JAX47-SB087-01-120106, and JAX47-SB087-05-120106 required

dilutions for several pesticides because of concentrations greater than the linear calibration range of the instrument. All other compounds were reported from the undiluted analysis.

SPLP sample JAX47-SB110-05-113006 required a 20X dilution for 4,4'-DDD and 4,4'-DDT because of concentrations greater than the linear calibration range of the instrument. All other compounds were reported from the undiluted analysis.

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

The samples in this package exhibited difficult samples matrix. In some cases, results were reported from three different analysis of the sample. The multiple sample runs along with the difficult sample matrix made validating the appropriate result very difficult.

The laboratory calculated percent differences (%Ds) between columns instead of relative percent differences, and most of the calculations were incorrect for the SPLP sample analyses. The laboratory was asked to correct the calculations and after one week submitted forms with the same incorrect calculations. The %Ds reported by the laboratory were used to qualify data. No data was rejected because of high %Ds. All %Ds greater than 25% were qualified as estimated.

The original continuing calibrations associated with this SDG were not being compared to the correct initial calibrations. The laboratory was asked to resubmit the correct continuing to initial calibration comparisions. The correct comparisions were submitted one week after the problem was brought to the laboratories attention.

The results for several samples reported on the Form Is did not match the results reported in the database. The laboratory sometimes reported the lower concentration on the Form Is but the higher concentration in the database. The higher concentration is considered the valid result and no change was made to the database.

EXECUTIVE SUMMARY

Laboratory Performance Issues: The compound 4,4'-DDT was detected in the soil method blank. Several compounds for soil and SPLP samples exceeded the continuing calibration %D criteria resulting in qualification of the data. The continuing calibrations were not associated with the correct initial calibrations in the original data submission causing time delays for data validation.

Other Factors Affecting Data Quality: Several soil surrogate and matrix spike percent recoveries had non-compliances resulting in the qualification of data. Percent difference between columns for soil and SPLP samples exceeded criteria for several compounds resulting in qualification of the data. Field duplicate precision non-compliances resulted in qualification of the data.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999), and Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-DU02-120106	nsample	JAX47-DU03-120106	nsample	JAX47-SB078-01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-03	lab_id	B610375-04	lab_id	B610375-05
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.0	Pct_Solids	94.4	Pct_Solids	96.4
DUP_OF:	JAX47-SB091-04-120106	DUP_OF:	JAX47-SB090-03-120106	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.011		
4,4'-DDE	0.032		
4,4'-DDT	0.21	J	C
ALDRIN	0.00021	U	
ALPHA-BHC	0.00087	J	P
ALPHA-CHLORDANE	0.0053		
BETA-BHC	0.42	J	G
DELTA-BHC	0.43	J	G
DIELDRIN	0.00024	U	
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00042	J	P
ENDRIN	0.0008	J	P
ENDRIN ALDEHYDE	0.00017	J	E
ENDRIN KETONE	0.0011	J	P
GAMMA-BHC (LINDANE)	0.00056	J	PU
GAMMA-CHLORDANE	0.0059		
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.0018	J	U
METHOXYCHLOR	0.0056	UJ	CQ
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00067	J	PU
4,4'-DDE	0.0038		
4,4'-DDT	0.0064	J	CG
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.0014	J	P
BETA-BHC	0.00035	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.00042	J	P
ENDOSULFAN I	0.00039	J	P
ENDOSULFAN II	0.0011	J	P
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00017	UJ	E
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.0017	J	PU
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.00059	U	
METHOXYCHLOR	0.00035	UJ	C
TOXAPHENE	0.0017	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0034	J	U
4,4'-DDE	0.013		
4,4'-DDT	0.014	J	C
ALDRIN	0.00021	U	
ALPHA-BHC	0.00024	J	P
ALPHA-CHLORDANE	0.00038	J	PU
BETA-BHC	0.00034	U	
DELTA-BHC	0.00048	J	PU
DIELDRIN	0.00024	U	
ENDOSULFAN I	0.00027	U	
ENDOSULFAN II	0.00024	U	
ENDOSULFAN SULFATE	0.00045	J	P
ENDRIN	0.00038	U	
ENDRIN ALDEHYDE	0.00017	UJ	E
ENDRIN KETONE	0.00031	U	
GAMMA-BHC (LINDANE)	0.00017	U	
GAMMA-CHLORDANE	0.00076	J	P
HEPTACHLOR	0.00024	U	
HEPTACHLOR EPOXIDE	0.00058	U	
METHOXYCHLOR	0.00045	J	CP
TOXAPHENE	0.0017	U	

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB078-06-120106	nsample	JAX47-SB079-01-120106	nsample	JAX47-SB079-06-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-06	lab_id	B610375-07	lab_id	B610375-08RE1
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	90.9	Pct_Solids	94.8	Pct_Solids	88.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00033	U	
4,4'-DDE	0.00036	U	
4,4'-DDT	0.00037	U	A
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.00029	U	
BETA-BHC	0.00036	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.00025	U	
ENDOSULFAN I	0.00029	U	
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00029	U	
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00018	UJ	E
ENDRIN KETONE	0.00033	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.00026	J	P
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.00062	U	
METHOXYCHLOR	0.00036	UJ	C
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00063	J	PRU
4,4'-DDE	0.012	J	R
4,4'-DDT	0.0035	J	R
ALDRIN	0.00021	UJ	R
ALPHA-BHC	0.00014	UJ	R
ALPHA-CHLORDANE	0.019	J	RU
BETA-BHC	0.00035	UJ	R
DELTA-BHC	0.00017	UJ	R
DIELDRIN	0.0023	J	R
ENDOSULFAN I	0.00028	UJ	R
ENDOSULFAN II	0.00024	UJ	R
ENDOSULFAN SULFATE	0.00028	UJ	R
ENDRIN	0.00038	UJ	R
ENDRIN ALDEHYDE	0.00017	UJ	ER
ENDRIN KETONE	0.00031	UJ	R
GAMMA-BHC (LINDANE)	0.00017	UJ	R
GAMMA-CHLORDANE	0.017	J	R
HEPTACHLOR	0.00024	UJ	R
HEPTACHLOR EPOXIDE	0.0034	J	R
METHOXYCHLOR	0.00046	J	PRU
TOXAPHENE	0.0017	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00034	U	
4,4'-DDE	0.00037	U	
4,4'-DDT	0.00015	U	A
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.00064	J	P
BETA-BHC	0.00037	U	
DELTA-BHC	0.00019	U	
DIELDRIN	0.00026	U	
ENDOSULFAN I	0.0003	U	
ENDOSULFAN II	0.00026	U	
ENDOSULFAN SULFATE	0.0003	U	
ENDRIN	0.00041	U	
ENDRIN ALDEHYDE	0.00076	J	P
ENDRIN KETONE	0.00034	UJ	C
GAMMA-BHC (LINDANE)	0.00019	U	
GAMMA-CHLORDANE	0.00034	J	P
HEPTACHLOR	0.00026	U	
HEPTACHLOR EPOXIDE	0.00064	U	
METHOXYCHLOR	0.00037	U	
TOXAPHENE	0.0019	U	

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB080-01-120106	nsample	JAX47-SB080-05-120106	nsample	JAX47-SB081-02-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-09	lab_id	B610375-10	lab_id	B610375-11
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.5	Pct_Solids	90.6	Pct_Solids	71.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00031	UJ	R
4,4'-DDE	0.00034	UJ	R
4,4'-DDT	0.00028	U	A
ALDRIN	0.00021	UJ	R
ALPHA-BHC	0.00014	UJ	R
ALPHA-CHLORDANE	0.00045	J	PR
BETA-BHC	0.00034	UJ	R
DELTA-BHC	0.00017	UJ	R
DIELDRIN	0.00024	UJ	R
ENDOSULFAN I	0.00027	UJ	R
ENDOSULFAN II	0.00024	UJ	R
ENDOSULFAN SULFATE	0.00027	UJ	R
ENDRIN	0.00038	UJ	R
ENDRIN ALDEHYDE	0.00017	UJ	ER
ENDRIN KETONE	0.00031	UJ	R
GAMMA-BHC (LINDANE)	0.00017	UJ	R
GAMMA-CHLORDANE	0.00038	J	PRU
HEPTACHLOR	0.00024	UJ	R
HEPTACHLOR EPOXIDE	0.00058	UJ	R
METHOXYCHLOR	0.00034	UJ	R
TOXAPHENE	0.0017	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00033	UJ	R
4,4'-DDE	0.00077	J	PR
4,4'-DDT	0.00096	U	A
ALDRIN	0.00022	UJ	R
ALPHA-BHC	0.00015	UJ	R
ALPHA-CHLORDANE	0.0077	J	R
BETA-BHC	0.00036	UJ	R
DELTA-BHC	0.00018	UJ	R
DIELDRIN	0.00025	UJ	R
ENDOSULFAN I	0.0004	J	PRU
ENDOSULFAN II	0.00025	UJ	R
ENDOSULFAN SULFATE	0.00029	UJ	R
ENDRIN	0.0004	UJ	R
ENDRIN ALDEHYDE	0.00018	UJ	ER
ENDRIN KETONE	0.00033	UJ	R
GAMMA-BHC (LINDANE)	0.00018	UJ	R
GAMMA-CHLORDANE	0.01	J	R
HEPTACHLOR	0.00029	J	PR
HEPTACHLOR EPOXIDE	0.0015	UJ	Q
METHOXYCHLOR	0.00036	UJ	R
TOXAPHENE	0.0018	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00042	UJ	R
4,4'-DDE	0.0023	J	PR
4,4'-DDT	0.0011	U	A
ALDRIN	0.00028	UJ	R
ALPHA-BHC	0.00019	UJ	R
ALPHA-CHLORDANE	0.00056	J	PR
BETA-BHC	0.00046	UJ	R
DELTA-BHC	0.00023	UJ	R
DIELDRIN	0.00033	UJ	R
ENDOSULFAN I	0.00037	UJ	R
ENDOSULFAN II	0.00033	UJ	R
ENDOSULFAN SULFATE	0.00037	UJ	R
ENDRIN	0.00051	UJ	R
ENDRIN ALDEHYDE	0.00023	UJ	ER
ENDRIN KETONE	0.00042	UJ	R
GAMMA-BHC (LINDANE)	0.00023	UJ	R
GAMMA-CHLORDANE	0.0007	J	PR
HEPTACHLOR	0.00033	UJ	R
HEPTACHLOR EPOXIDE	0.00079	UJ	R
METHOXYCHLOR	0.00046	UJ	CR
TOXAPHENE	0.0023	UJ	R

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB081-05-120106	nsample	JAX47-SB082-02-120106	nsample	JAX47-SB082-05-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-12	lab_id	B610375-13RE1	lab_id	B610375-14
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	80.6	Pct_Solids	91.5	Pct_Solids	73.6
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00037	UJ	R
4,4'-DDE	0.00041	UJ	R
4,4'-DDT	0.00066	U	A
ALDRIN	0.00025	UJ	R
ALPHA-BHC	0.00016	UJ	R
ALPHA-CHLORDANE	0.00033	UJ	R
BETA-BHC	0.00041	UJ	R
DELTA-BHC	0.0002	UJ	R
DIELDRIN	0.00029	UJ	R
ENDOSULFAN I	0.00033	UJ	R
ENDOSULFAN II	0.00029	UJ	R
ENDOSULFAN SULFATE	0.00033	UJ	R
ENDRIN	0.00045	UJ	R
ENDRIN ALDEHYDE	0.0002	UJ	ER
ENDRIN KETONE	0.00037	UJ	R
GAMMA-BHC (LINDANE)	0.0002	UJ	R
GAMMA-CHLORDANE	0.00029	UJ	R
HEPTACHLOR	0.00029	UJ	R
HEPTACHLOR EPOXIDE	0.0007	UJ	R
METHOXYCHLOR	0.00041	UJ	R
TOXAPHENE	0.002	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00032	U	
4,4'-DDE	0.0081		
4,4'-DDT	0.0041	J	C
ALDRIN	0.00022	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.12		
BETA-BHC	0.00036	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.028		
ENDOSULFAN I	0.00029	U	
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00033	J	P
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00018	U	
ENDRIN KETONE	0.00032	UJ	C
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.14		
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.0033	J	U
METHOXYCHLOR	0.00036	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	UJ	R
4,4'-DDE	0.00045	UJ	R
4,4'-DDT	0.00018	UJ	R
ALDRIN	0.00027	UJ	R
ALPHA-BHC	0.00018	UJ	R
ALPHA-CHLORDANE	0.00036	J	PR
BETA-BHC	0.00045	UJ	R
DELTA-BHC	0.00022	UJ	R
DIELDRIN	0.00031	UJ	R
ENDOSULFAN I	0.00036	UJ	R
ENDOSULFAN II	0.00031	UJ	R
ENDOSULFAN SULFATE	0.00036	UJ	R
ENDRIN	0.00049	UJ	R
ENDRIN ALDEHYDE	0.00022	UJ	ER
ENDRIN KETONE	0.0004	UJ	R
GAMMA-BHC (LINDANE)	0.00022	UJ	R
GAMMA-CHLORDANE	0.00032	J	PR
HEPTACHLOR	0.00031	UJ	R
HEPTACHLOR EPOXIDE	0.00076	UJ	R
METHOXYCHLOR	0.00045	UJ	R
TOXAPHENE	0.0022	UJ	R

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB083-01-120106	nsample	JAX47-SB083-05-120106	nsample	JAX47-SB087-01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-15	lab_id	B610375-16	lab_id	B610375-17
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	93.9	Pct_Solids	94.2	Pct_Solids	70.9
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.055	J	U
4,4'-DDE	0.13		
4,4'-DDT	1.2		
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.21		
BETA-BHC	0.0014	J	PU
DELTA-BHC	0.00018	U	
DIELDRIN	0.011	J	U
ENDOSULFAN I	0.0072		
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.0005	J	PU
ENDRIN	0.00039	U	
ENDRIN ALDEHYDE	0.00018	UJ	E
ENDRIN KETONE	0.00032	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.3		
HEPTACHLOR	0.00096	J	P
HEPTACHLOR EPOXIDE	0.015	J	U
METHOXYCHLOR	0.00035	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0039	J	U
4,4'-DDE	0.0077		
4,4'-DDT	0.025		
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.011		
BETA-BHC	0.00071	J	P
DELTA-BHC	0.00018	U	
DIELDRIN	0.00081	J	P
ENDOSULFAN I	0.00032	J	PU
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.00039	U	
ENDRIN ALDEHYDE	0.00057	J	EPU
ENDRIN KETONE	0.00071	UJ	Q
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.014		
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.0006	U	
METHOXYCHLOR	0.0011	J	PU
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00042	UJ	R
4,4'-DDE	0.51	J	R
4,4'-DDT	3.8	J	R
ALDRIN	0.00028	UJ	R
ALPHA-BHC	0.00033	J	PR
ALPHA-CHLORDANE	0.0099	J	CR
BETA-BHC	0.0015	J	PRU
DELTA-BHC	0.0011	J	PR
DIELDRIN	0.083	J	CR
ENDOSULFAN I	0.00037	UJ	CR
ENDOSULFAN II	0.22	J	R
ENDOSULFAN SULFATE	0.006	J	RU
ENDRIN	0.0008	J	PRU
ENDRIN ALDEHYDE	0.00023	UJ	CER
ENDRIN KETONE	0.00089	J	PRU
GAMMA-BHC (LINDANE)	0.00028	J	PR
GAMMA-CHLORDANE	0.011	J	CR
HEPTACHLOR	0.00033	UJ	R
HEPTACHLOR EPOXIDE	0.0039	J	CRU
METHOXYCHLOR	0.003	J	CR
TOXAPHENE	0.0023	UJ	R

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB087-05-120106	nsample	JAX47-SB088-03-120106	nsample	JAX47-SB088-06-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-18	lab_id	B610375-19	lab_id	B610375-20
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	76.0	Pct_Solids	90.2	Pct_Solids	91.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0051		
4,4'-DDE	0.044	J	C
4,4'-DDT	0.4	J	C
ALDRIN	0.00026	U	
ALPHA-BHC	0.00017	U	
ALPHA-CHLORDANE	0.0011	J	CP
BETA-BHC	0.00043	U	
DELTA-BHC	0.00022	U	
DIELDRIN	0.0063	J	C
ENDOSULFAN I	0.00035	UJ	C
ENDOSULFAN II	0.039	J	C
ENDOSULFAN SULFATE	0.00035	U	
ENDRIN	0.00048	U	
ENDRIN ALDEHYDE	0.00022	UJ	CE
ENDRIN KETONE	0.00039	U	
GAMMA-BHC (LINDANE)	0.00022	U	
GAMMA-CHLORDANE	0.0013	J	CPU
HEPTACHLOR	0.0003	U	
HEPTACHLOR EPOXIDE	0.00074	UJ	C
METHOXYCHLOR	0.00043	U	
TOXAPHENE	0.0022	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00033	U	
4,4'-DDE	0.0051	J	C
4,4'-DDT	0.0021		
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.00029	UJ	C
BETA-BHC	0.00037	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.00026	UJ	C
ENDOSULFAN I	0.00029	UJ	C
ENDOSULFAN II	0.00026	UJ	C
ENDOSULFAN SULFATE	0.00029	U	
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00018	UJ	CE
ENDRIN KETONE	0.00033	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.0003	J	CP
HEPTACHLOR	0.00026	U	
HEPTACHLOR EPOXIDE	0.00062	UJ	C
METHOXYCHLOR	0.00037	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00033	UJ	R
4,4'-DDE	0.0012	J	CPR
4,4'-DDT	0.0061	J	R
ALDRIN	0.00022	UJ	R
ALPHA-BHC	0.00014	UJ	R
ALPHA-CHLORDANE	0.00029	UJ	CR
BETA-BHC	0.00036	UJ	R
DELTA-BHC	0.00018	UJ	R
DIELDRIN	0.00025	UJ	CR
ENDOSULFAN I	0.00029	UJ	CR
ENDOSULFAN II	0.00058	J	CPR
ENDOSULFAN SULFATE	0.00029	UJ	R
ENDRIN	0.0004	UJ	R
ENDRIN ALDEHYDE	0.00018	UJ	CER
ENDRIN KETONE	0.00033	UJ	R
GAMMA-BHC (LINDANE)	0.00018	UJ	R
GAMMA-CHLORDANE	0.00033	J	CPR
HEPTACHLOR	0.00025	UJ	R
HEPTACHLOR EPOXIDE	0.00061	UJ	CR
METHOXYCHLOR	0.00036	UJ	R
TOXAPHENE	0.0018	UJ	R

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB110-01-113006	nsample	JAX47-SB110-05-113006
samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610375-01RE1	lab_id	B610375-02RE3
qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG
Pct_Solids	97.2	Pct_Solids	89.6
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.065	J	DU
4,4'-DDE	1.3	J	D
4,4'-DDT	1.4	J	D
ALDRIN	0.0002	UJ	D
ALPHA-BHC	0.00027	J	DP
ALPHA-CHLORDANE	0.23	J	D
BETA-BHC	0.0017	J	DPU
DELTA-BHC	0.00058	J	DP
DIELDRIN	0.16	J	D
ENDOSULFAN I	0.00027	UJ	D
ENDOSULFAN II	0.00024	UJ	D
ENDOSULFAN SULFATE	0.01	J	DU
ENDRIN	0.046	J	D
ENDRIN ALDEHYDE	0.013	J	DU
ENDRIN KETONE	0.0097	J	DU
GAMMA-BHC (LINDANE)	0.00096	J	DP
GAMMA-CHLORDANE	0.22	J	D
HEPTACHLOR	0.00041	J	DP
HEPTACHLOR EPOXIDE	0.034	J	DU
METHOXYCHLOR	0.012	J	CDU
TOXAPHENE	0.0017	UJ	D

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	55	J	R
4,4'-DDE	2.3	J	R
4,4'-DDT	59	J	R
ALDRIN	0.00022	UJ	R
ALPHA-BHC	0.00015	UJ	R
ALPHA-CHLORDANE	0.56	J	R
BETA-BHC	0.003	J	RU
DELTA-BHC	0.0023	J	RU
DIELDRIN	0.00026	UJ	R
ENDOSULFAN I	0.00029	UJ	R
ENDOSULFAN II	0.01	J	RU
ENDOSULFAN SULFATE	0.0072	J	RU
ENDRIN	0.049	J	RU
ENDRIN ALDEHYDE	0.00018	UJ	ER
ENDRIN KETONE	0.00033	UJ	R
GAMMA-BHC (LINDANE)	0.00018	UJ	R
GAMMA-CHLORDANE	1	J	R
HEPTACHLOR	0.19	J	R
HEPTACHLOR EPOXIDE	0.28	J	RU
METHOXYCHLOR	0.00037	UJ	CR
TOXAPHENE	0.0018	UJ	R

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB081-02-120106	nsample	JAX47-SB081-05-120106	nsample	JAX47-SB082-02-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-11	lab_id	B610375-12RE1	lab_id	B610375-13
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	71.0	Pct_Solids	80.6	Pct_Solids	91.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.164		
4,4'-DDE	0.008	J	P
4,4'-DDT	0.109		
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.029	J	PU
BETA-BHC	0.01	J	P
DELTA-BHC	0.001	U	
DIELDRIN	0.01	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.015	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.105		
4,4'-DDE	0.005	J	P
4,4'-DDT	0.029	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.022	J	PU
BETA-BHC	0.242		
DELTA-BHC	0.063		
DIELDRIN	0.017	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.01	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.002	J	PU
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.008	J	P
4,4'-DDE	0.013	J	P
4,4'-DDT	0.011	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	UJ	C
ALPHA-CHLORDANE	0.945	J	U
BETA-BHC	0.002	UJ	C
DELTA-BHC	0.001	UJ	C
DIELDRIN	0.437		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.006	J	P
ENDOSULFAN SULFATE	0.002	UJ	C
ENDRIN	0.014	J	CP
ENDRIN ALDEHYDE	0.009	UJ	C
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	UJ	C
GAMMA-CHLORDANE	0.706		
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.021	J	PU
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB082-05-120106	nsample	JAX47-SB083-01-120106	nsample	JAX47-SB083-05-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-14	lab_id	B610375-15	lab_id	B610375-16
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	73.6	Pct_Solids	93.9	Pct_Solids	94.2
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.022	J	P
4,4'-DDE	0.002	U	
4,4'-DDT	0.013	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.013	J	PU
BETA-BHC	0.023	J	P
DELTA-BHC	0.007	J	P
DIELDRIN	0.004	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.008	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.005	J	P
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.051		
4,4'-DDE	0.051		
4,4'-DDT	0.058		
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.489		
BETA-BHC	0.025	J	PU
DELTA-BHC	0.001	U	
DIELDRIN	0.053	J	U
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.015	J	PU
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.526		
HEPTACHLOR	0.002	J	P
HEPTACHLOR EPOXIDE	0.014	J	P
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.036	J	P
4,4'-DDE	0.008	J	P
4,4'-DDT	0.026	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.166	J	U
BETA-BHC	0.029	J	P
DELTA-BHC	0.004	J	P
DIELDRIN	0.017	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.089		
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.005	J	P
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB110-01-113006	nsample	JAX47-SB110-05-113006
samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610375-01	lab_id	B610375-02RE1
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids	97.2	Pct_Solids	89.6
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.02	J	HP
4,4'-DDE	0.282	J	H
4,4'-DDT	0.005	J	HP
ALDRIN	0.002	UJ	H
ALPHA-BHC	0.001	UJ	H
ALPHA-CHLORDANE	0.074	J	H
BETA-BHC	0.018	J	HP
DELTA-BHC	0.001	UJ	H
DIELDRIN	0.139	J	H
ENDOSULFAN I	0.002	UJ	H
ENDOSULFAN II	0.002	UJ	H
ENDOSULFAN SULFATE	0.002	UJ	H
ENDRIN	0.018	J	HP
ENDRIN ALDEHYDE	0.009	UJ	H
ENDRIN KETONE	0.014	J	HP
GAMMA-BHC (LINDANE)	0.002	UJ	H
GAMMA-CHLORDANE	0.007	J	HPU
HEPTACHLOR	0.001	UJ	H
HEPTACHLOR EPOXIDE	0.023	J	HPU
METHOXYCHLOR	0.02	J	HPU
TOXAPHENE	0.05	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	36.9	J	U
4,4'-DDE	1.33		
4,4'-DDT	36.7	J	U
ALDRIN	0.029	J	PU
ALPHA-BHC	0.001	UJ	C
ALPHA-CHLORDANE	2	J	LU
BETA-BHC	0.042	J	CPU
DELTA-BHC	0.001	UJ	C
DIELDRIN	0.096	J	U
ENDOSULFAN I	0.04	J	PU
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.012	J	CPU
ENDRIN	0.053	J	CU
ENDRIN ALDEHYDE	0.009	UJ	C
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	UJ	C
GAMMA-CHLORDANE	1.14		
HEPTACHLOR	0.129		
HEPTACHLOR EPOXIDE	0.177	J	U
METHOXYCHLOR	0.066	J	U
TOXAPHENE	0.05	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDES ANALYSIS DATA SHEET

JAX47-DU02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-03	File ID:	9LUA037-0
Sampled:	12/01/06 00:00	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 03:28
Solids:	96.03	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00087	J
58-89-9	gamma-BHC	1	0.00056	JP
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0018	P
NA	Chlordane-gamma	1	0.0059	
NA	Chlordane-alpha	1	0.0053	
72-55-9	4,4'-DDE	1	0.032	
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	U
72-20-8	Endrin	1	0.00080	J
72-54-8	4,4'-DDD	1	0.011	
33213-65-9	Endosulfan II	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.00042	J
53494-70-5	Endrin ketone	1	0.0011	J
8001-35-2	Toxaphene	1	0.034	U
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.0017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0347	0.028	80	70 - 125	
DBC	0.0347	0.031	91	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-DU02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-03RE1	File ID:	9LPA017-0
Sampled:	12/01/06 00:00	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 20:02
Solids:	96.03	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-85-7	beta-BHC	10	0.42	D
319-86-8	delta-BHC	10	0.43	D
50-29-3	4,4'-DDT	10	0.21	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0347	0.025	71	70 - 125	
DBC	0.0347	0.026	75	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-DU03-120106

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil Laboratory ID: B610375-04 File ID: 9LUA034-0

Sampled: 12/01/06 00:00 Prepared: 12/08/06 09:31 Analyzed: 12/27/06 02:11

Solids: 94.44 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 6L08006 Sequence: BA00093 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.0017	JP
NA	Chlordane-alpha	1	0.0014	J
72-55-9	4,4'-DDE	1	0.0038	
959-98-8	Endosulfan I	1	0.00039	J
60-57-1	Dieldrin	1	0.00042	J
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.00067	JP
33213-65-9	Endosulfan II	1	0.0011	J
50-29-3	4,4'-DDT	1	0.0064	
7421-93-4	Endrin aldehyde	1	0.0018	U
72-43-5	Methoxychlor	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0353	0.026	73	70 - 125	
DBC	0.0353	0.026	74	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB078-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-05	File ID:	9LUA035-0
Sampled:	12/01/06 12:26	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 02:37
Solids:	96.37	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00024	J
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.00048	JP
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.00076	J
NA	Chlordane-alpha	1	0.00038	JP
72-55-9	4,4'-DDE	1	0.013	
959-98-8	Endosulfan I	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	U
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0034	P
33213-65-9	Endosulfan II	1	0.0017	U
50-29-3	4,4'-DDT	1	0.014	
7421-93-4	Endrin aldehyde	1	0.0017	U
72-43-5	Methoxychlor	1	0.00045	J
1031-07-8	Endosulfan sulfate	1	0.00045	J
8001-35-2	Toxaphene	1	0.034	U
53494-70-5	Endrin ketone	1	0.0017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0346	0.027	78	70 - 125	
DBC	0.0346	0.030	87	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB078-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-06	File ID:	9LUA036-0
Sampled:	12/01/06 12:33	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 03:03
Solids:	90.91	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.00026	J
NA	Chlordane-alpha	1	0.0018	U
72-55-9	4,4'-DDE	1	0.0018	U
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
50-29-3	4,4'-DDT	1	0.00037	JP
7421-93-4	Endrin aldehyde	1	0.0018	U
72-43-5	Methoxychlor	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.036	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0367	0.028	76	70 - 125	
DBC	0.0367	0.029	80	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB079-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-07	File ID:	9LEA025-0
Sampled:	12/01/06 12:11	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 01:22
Solids:	94.83	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0034	
NA	Chlordane-gamma	1	0.017	
NA	Chlordane-alpha	1	0.019	P
72-55-9	4,4'-DDE	1	0.012	
60-57-1	Dieldrin	1	0.0023	
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.00063	JP
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0352	0.023	66	70 - 125	*
DBC	0.0352	0.023	64	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB079-01-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-07RE1	File ID:	9AJA014-0
Sampled:	12/01/06 12:11	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 21:56
Solids:	94.83	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
959-98-8	Endosulfan I	1	0.0018	U
50-29-3	4,4'-DDT	1	0.0035	
72-43-5	Methoxychlor	1	0.00046	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0352	0.028	81	70 - 125	
DBC	0.0352	0.025	72	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB079-06-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-08RE1	File ID:	9LOA008-0
Sampled:	12/01/06 12:18	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 14:13
Solids:	88.13	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0019	U
58-89-9	gamma-BHC	1	0.0019	U
319-85-7	beta-BHC	1	0.0019	U
319-86-8	delta-BHC	1	0.0019	U
76-44-8	Heptachlor	1	0.0019	U
309-00-2	Aldrin	1	0.0019	U
1024-57-3	Heptachlor epoxide	1	0.0019	U
NA	Chlordane-gamma	1	0.00034	J
NA	Chlordane-alpha	1	0.00064	J
72-55-9	4,4'-DDE	1	0.0019	U
959-98-8	Endosulfan I	1	0.0019	U
60-57-1	Dieldrin	1	0.0019	U
72-20-8	Endrin	1	0.0019	U
72-54-8	4,4'-DDD	1	0.0019	U
33213-65-9	Endosulfan II	1	0.0019	U
50-29-3	4,4'-DDT	1	0.00015	J
7421-93-4	Endrin aldehyde	1	0.00076	J
72-43-5	Methoxychlor	1	0.0019	U
1031-07-8	Endosulfan sulfate	1	0.0019	U
53494-70-5	Endrin ketone	1	0.0019	U
8001-35-2	Toxaphene	1	0.037	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0378	0.029	77	70 - 125	
DBC	0.0378	0.030	79	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB080-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-09	File ID:	9LEA027-0
Sampled:	12/01/06 09:12	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 02:13
Solids:	96.54	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0017	U
58-89-9	gamma-BHC	1	0.0017	U
319-85-7	beta-BHC	1	0.0017	U
319-86-8	delta-BHC	1	0.0017	U
76-44-8	Heptachlor	1	0.0017	U
309-00-2	Aldrin	1	0.0017	U
1024-57-3	Heptachlor epoxide	1	0.0017	U
NA	Chlordane-gamma	1	0.00038	JP
NA	Chlordane-alpha	1	0.00045	J
72-55-9	4,4'-DDE	1	0.0017	U
60-57-1	Dieldrin	1	0.0017	U
72-20-8	Endrin	1	0.0017	U
72-54-8	4,4'-DDD	1	0.0017	U
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.0017	U
1031-07-8	Endosulfan sulfate	1	0.0017	U
53494-70-5	Endrin ketone	1	0.0017	U
8001-35-2	Toxaphene	1	0.034	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0345	0.021	62	70 - 125	*
DBC	0.0345	0.024	70	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB080-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-09RE1	File ID:	9AJA015-0
Sampled:	12/01/06 09:12	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 22:22
Solids:	96.54	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
959-98-8	Endosulfan I	1	0.0017	U
50-29-3	4,4'-DDT	1	0.00028	J
72-43-5	Methoxychlor	1	0.0017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0345	0.026	76	70 - 125	
DBC	0.0345	0.028	80	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB080-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-10	File ID:	9LEA028-0
Sampled:	12/01/06 09:39	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 02:39
Solids:	90.60	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.00029	J
309-00-2	Aldrin	1	0.0018	U
NA	Chlordane-gamma	1	0.010	
NA	Chlordane-alpha	1	0.0077	
72-55-9	4,4'-DDE	1	0.00077	J
60-57-1	Dieldrin	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.036	U
1024-57-3	Heptachlor epoxide	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0368	0.020	54	70 - 125	*
DBC	0.0368	0.023	62	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB080-05-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-10RE1	File ID:	9AJA016-0
Sampled:	12/01/06 09:39	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 22:48
Solids:	90.60	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
959-98-8	Endosulfan I	1	0.00040	JP
50-29-3	4,4'-DDT	1	0.00096	J
72-43-5	Methoxychlor	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0368	0.025	68	70 - 125	*
DBC	0.0368	0.027	73	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB081-02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-11	File ID:	9LEA029-0
Sampled:	12/01/06 10:25	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 03:05
Solids:	71.02	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0023	U
58-89-9	gamma-BHC	1	0.0023	U
319-85-7	beta-BHC	1	0.0023	U
319-86-8	delta-BHC	1	0.0023	U
76-44-8	Heptachlor	1	0.0023	U
309-00-2	Aldrin	1	0.0023	U
1024-57-3	Heptachlor epoxide	1	0.0023	U
NA	Chlordane-gamma	1	0.00070	J
NA	Chlordane-alpha	1	0.00056	J
72-55-9	4,4'-DDE	1	0.0023	J
959-98-8	Endosulfan I	1	0.0023	U
60-57-1	Dieldrin	1	0.0023	U
72-20-8	Endrin	1	0.0023	U
72-54-8	4,4'-DDD	1	0.0023	U
33213-65-9	Endosulfan II	1	0.0023	U
50-29-3	4,4'-DDT	1	0.0011	J
7421-93-4	Endrin aldehyde	1	0.0023	U
72-43-5	Methoxychlor	1	0.0023	U
1031-07-8	Endosulfan sulfate	1	0.0023	U
53494-70-5	Endrin ketone	1	0.0023	U
8001-35-2	Toxaphene	1	0.046	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0469	0.028	60	70 - 125	*
DBC	0.0469	0.033	70	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB081-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-12	File ID:	9LEA030-0
Sampled:	12/01/06 10:32	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 03:31
Solids:	80.58	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0021	U
58-89-9	gamma-BHC	1	0.0021	U
319-85-7	beta-BHC	1	0.0021	U
319-86-8	delta-BHC	1	0.0021	U
76-44-8	Heptachlor	1	0.0021	U
309-00-2	Aldrin	1	0.0021	U
1024-57-3	Heptachlor epoxide	1	0.0021	U
NA	Chlordane-gamma	1	0.0021	U
NA	Chlordane-alpha	1	0.0021	U
72-55-9	4,4'-DDE	1	0.0021	U
60-57-1	Dieldrin	1	0.0021	U
72-20-8	Endrin	1	0.0021	U
72-54-8	4,4'-DDD	1	0.0021	U
33213-65-9	Endosulfan II	1	0.0021	U
7421-93-4	Endrin aldehyde	1	0.0021	U
1031-07-8	Endosulfan sulfate	1	0.0021	U
53494-70-5	Endrin ketone	1	0.0021	U
8001-35-2	Toxaphene	1	0.041	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0414	0.024	58	70 - 125	*
DBC	0.0414	0.031	75	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB081-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-12RE1	File ID:	9AJA017-0
Sampled:	12/01/06 10:32	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 23:14
Solids:	80.58	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
959-98-8	Endosulfan I	1	0.0021	U
50-29-3	4,4'-DDT	1	0.00066	J
72-43-5	Methoxychlor	1	0.0021	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0414	0.030	72	70 - 125	
DBC	0.0414	0.036	86	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB082-02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-13RE1	File ID:	9LOA010-0
Sampled:	12/01/06 10:15	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 15:05
Solids:	91.47	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
72-55-9	4,4'-DDE	1	0.0081	
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.028	
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
50-29-3	4,4'-DDT	1	0.0041	
7421-93-4	Endrin aldehyde	1	0.0018	U
72-43-5	Methoxychlor	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.00033	J
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.036	U
1024-57-3	Heptachlor epoxide	1	0.0012	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0364	0.032	87	70 - 125	
DBC	0.0364	0.032	88	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB082-02-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-13RE2	File ID:	9LQA014-0
Sampled:	12/01/06 10:15	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 17:42
Solids:	91.47	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	10	0.14	D
NA	Chlordane-alpha	10	0.12	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0364	0.029	80	70 - 125	
DBC	0.0364	0.030	81	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB082-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-14	File ID:	9LEA032-0
Sampled:	12/01/06 10:21	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 04:23
Solids:	73.57	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0023	U
58-89-9	gamma-BHC	1	0.0023	U
319-85-7	beta-BHC	1	0.0023	U
319-86-8	delta-BHC	1	0.0023	U
76-44-8	Heptachlor	1	0.0023	U
309-00-2	Aldrin	1	0.0023	U
1024-57-3	Heptachlor epoxide	1	0.0023	U
NA	Chlordane-gamma	1	0.00032	J
NA	Chlordane-alpha	1	0.00036	J
72-55-9	4,4'-DDE	1	0.0023	U
60-57-1	Dieldrin	1	0.0023	U
72-20-8	Endrin	1	0.0023	U
72-54-8	4,4'-DDD	1	0.0023	U
33213-65-9	Endosulfan II	1	0.0023	U
7421-93-4	Endrin aldehyde	1	0.0023	U
1031-07-8	Endosulfan sulfate	1	0.0023	U
53494-70-5	Endrin ketone	1	0.0023	U
8001-35-2	Toxaphene	1	0.045	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0453	0.025	55	70 - 125	*
DBC	0.0453	0.029	65	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB082-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-14RE1	File ID:	9AJA018-0
Sampled:	12/01/06 10:21	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 23:40
Solids:	73.57	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
959-98-8	Endosulfan I	1	0.0023	U
50-29-3	4,4'-DDT	1	0.0023	U
72-43-5	Methoxychlor	1	0.0023	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0453	0.031	68	70 - 125	*
DBC	0.0453	0.034	75	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-15	File ID:	9LEA033-0
Sampled:	12/01/06 09:52	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 04:49
Solids:	93.90	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0014	JP
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.00096	J
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.015	P
60-57-1	Dieldrin	1	0.011	P
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.055	P
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.00050	JP
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0355	0.026	73	70 - 125	
DBC	0.0355	0.034	96	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-15RE1	File ID:	9LPA015-0
Sampled:	12/01/06 09:52	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 19:11
Solids:	93.90	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	10	0.30	D
NA	Chlordane-alpha	10	0.21	D
72-55-9	4,4'-DDE	10	0.13	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0355	0.028	78	70 - 125	
DBC	0.0355	0.040	113	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-15RE2	File ID:	9LQA024-0
Sampled:	12/01/06 09:52	Prepared:	12/08/06 09:31	Analyzed:	12/22/06 22:34
Solids:	93.90	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	100	1.2	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-15RE3	File ID:	9AJA019-0
Sampled:	12/01/06 09:52	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 00:06
Solids:	93.90	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
959-98-8	Endosulfan I	1	0.0072	
72-43-5	Methoxychlor	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0355	0.032	90	70 - 125	
DBC	0.0355	0.042	119	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB083-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-16	File ID:	9LEA034-0
Sampled:	12/01/06 09:58	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 05:15
Solids:	94.21	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.00071	J
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.014	
NA	Chlordane-alpha	1	0.011	
72-55-9	4,4'-DDE	1	0.0077	
60-57-1	Dieldrin	1	0.00081	J
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0039	P
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.00057	JP
1031-07-8	Endosulfan sulfate	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U
53494-70-5	Endrin ketone	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0354	0.028	80	70 - 125	
DBC	0.0354	0.031	88	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB083-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-16RE1	File ID:	9AJA020-0
Sampled:	12/01/06 09:58	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 00:31
Solids:	94.21	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
959-98-8	Endosulfan I	1	0.00032	JP
50-29-3	4,4'-DDT	1	0.025	
72-43-5	Methoxychlor	1	0.0011	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0354	0.036	100	70 - 125	
DBC	0.0354	0.036	103	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB087-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-17	File ID:	9LVA011-0
Sampled:	12/01/06 10:40	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 14:47
Solids:	70.89	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00033	J
58-89-9	gamma-BHC	1	0.00028	J
319-85-7	beta-BHC	1	0.0015	JP
319-86-8	delta-BHC	1	0.0011	J
76-44-8	Heptachlor	1	0.0023	U
309-00-2	Aldrin	1	0.0023	U
1024-57-3	Heptachlor epoxide	1	0.0039	P
NA	Chlordane-gamma	1	0.011	
NA	Chlordane-alpha	1	0.0099	
959-98-8	Endosulfan I	1	0.0023	U
60-57-1	Dieldrin	1	0.083	
72-20-8	Endrin	1	0.00080	JP
72-54-8	4,4'-DDD	1	0.0023	U
7421-93-4	Endrin aldehyde	1	0.0023	U
72-43-5	Methoxychlor	1	0.0030	
53494-70-5	Endrin ketone	1	0.00089	JP
8001-35-2	Toxaphene	1	0.047	U
1031-07-8	Endosulfan sulfate	1	0.00094	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0470	0.030	64	70 - 125	*
DBC	0.0470	0.035	74	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB087-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-17RE1	File ID:	9LPA018-0
Sampled:	12/01/06 10:40	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 20:28
Solids:	70.89	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4'-DDE	10	0.51	D
33213-65-9	Endosulfan II	10	0.22	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0470	0.027	57	70 - 125	*
DBC	0.0470	0.032	67	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB087-01-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-17RE2	File ID:	9LQA025-0
Sampled:	12/01/06 10:40	Prepared:	12/08/06 09:31	Analyzed:	12/22/06 23:00
Solids:	70.89	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	100	3.8	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB087-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-18	File ID:	9LVA010-0
Sampled:	12/01/06 10:48	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 14:21
Solids:	76.03	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0022	U
58-89-9	gamma-BHC	1	0.0022	U
319-85-7	beta-BHC	1	0.0022	U
319-86-8	delta-BHC	1	0.0022	U
76-44-8	Heptachlor	1	0.0022	U
309-00-2	Aldrin	1	0.0022	U
1024-57-3	Heptachlor epoxide	1	0.0022	U
NA	Chlordane-gamma	1	0.0013	JP
NA	Chlordane-alpha	1	0.0011	J
72-55-9	4,4'-DDE	1	0.044	
959-98-8	Endosulfan I	1	0.0022	U
60-57-1	Dieldrin	1	0.0063	
72-20-8	Endrin	1	0.0022	U
72-54-8	4,4'-DDD	1	0.0051	
33213-65-9	Endosulfan II	1	0.039	
7421-93-4	Endrin aldehyde	1	0.0022	U
1031-07-8	Endosulfan sulfate	1	0.0022	U
53494-70-5	Endrin ketone	1	0.0022	U
8001-35-2	Toxaphene	1	0.043	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0438	0.054	124	70 - 125	
DBC	0.0438	0.041	93	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB087-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-18RE1	File ID:	9LPA016-0
Sampled:	12/01/06 10:48	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 19:36
Solids:	76.03	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	10	0.40	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0438	0.051	116	70 - 125	
DBC	0.0438	0.039	88	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB087-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-18RE2	File ID:	9AJA024-0
Sampled:	12/01/06 10:48	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 02:15
Solids:	76.03	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-43-5	Methoxychlor	1	0.0022	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0438	0.059	134	70 - 125	*
DBC	0.0438	0.045	102	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB088-03-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-19	File ID:	9LVA008-0
Sampled:	12/01/06 11:45	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 13:30
Solids:	90.16	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.00030	J
NA	Chlordane-alpha	1	0.0018	U
72-55-9	4,4'-DDE	1	0.0051	
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.037	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0370	0.033	89	70 - 125	
DBC	0.0370	0.031	85	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB088-03-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-19RE1	File ID:	9AJA021-0
Sampled:	12/01/06 11:45	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 00:57
Solids:	90.16	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.0021	
72-43-5	Methoxychlor	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0370	0.035	94	70 - 125	
DBC	0.0370	0.034	93	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB088-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-20	File ID:	9LVA009-0
Sampled:	12/01/06 11:59	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 13:55
Solids:	91.26	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.00033	J
NA	Chlordane-alpha	1	0.0018	U
72-55-9	4,4'-DDE	1	0.0012	J
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.00058	J
7421-93-4	Endrin aldehyde	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.036	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0365	0.023	62	70 - 125	*
DBC	0.0365	0.021	56	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB088-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-20RE1	File ID:	9AJA022-0
Sampled:	12/01/06 11:59	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 01:23
Solids:	91.26	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00124	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-29-3	4,4'-DDT	1	0.0061	
72-43-5	Methoxychlor	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0365	0.024	66	70 - 125	*
DBC	0.0365	0.022	60	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-01RE1	File ID:	9LOA014-0
Sampled:	11/30/06 15:52	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 16:48
Solids:	97.17	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00027	J
58-89-9	gamma-BHC	1	0.00096	J
319-86-8	delta-BHC	1	0.00058	J
76-44-8	Heptachlor	1	0.00041	J
309-00-2	Aldrin	1	0.0017	U
959-98-8	Endosulfan I	1	0.0017	U
72-20-8	Endrin	1	0.046	
72-54-8	4,4'-DDD	1	0.065	P
33213-65-9	Endosulfan II	1	0.0017	U
7421-93-4	Endrin aldehyde	1	0.013	P
53494-70-5	Endrin ketone	1	0.0097	P
8001-35-2	Toxaphene	1	0.034	U
319-85-7	beta-BHC	1	0.00093	JP
1024-57-3	Heptachlor epoxide	1	0.011	P
72-43-5	Methoxychlor	1	0.00048	JP
1031-07-8	Endosulfan sulfate	1	0.0064	P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0343	0.029	84	70 - 125	
DBC	0.0343	0.051	150	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-01RE2	File ID:	9LQA015-0
Sampled:	11/30/06 15:52	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 18:08
Solids:	97.17	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
NA	Chlordane-gamma	10	0.22	D
NA	Chlordane-alpha	10	0.23	D
60-57-1	Dieldrin	10	0.16	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0343	0.026	77	70 - 125	
DBC	0.0343	0.047	138	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-01RE3	File ID:	9LQA017-0
Sampled:	11/30/06 15:52	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 18:59
Solids:	97.17	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4'-DDE	100	1.3	D
50-29-3	4,4'-DDT	100	1.4	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02	File ID:	9LUA038-0
Sampled:	11/30/06 16:00	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 03:54
Solids:	89.63	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0019	U
58-89-9	gamma-BHC	1	0.0019	U
319-85-7	beta-BHC	1	0.0030	P
319-86-8	delta-BHC	1	0.0023	P
309-00-2	Aldrin	1	0.0019	U
959-98-8	Endosulfan I	1	0.0019	U
60-57-1	Dieldrin	1	0.0019	U
72-20-8	Endrin	1	0.049	P
33213-65-9	Endosulfan II	1	0.010	P
7421-93-4	Endrin aldehyde	1	0.0019	U
72-43-5	Methoxychlor	1	0.0019	U
1031-07-8	Endosulfan sulfate	1	0.0072	P
53494-70-5	Endrin ketone	1	0.0019	U
8001-35-2	Toxaphene	1	0.037	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0372	0.0095	26	70 - 125	*
DBC	0.0372	0.27	723	55 - 130	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02RE1	File ID:	9LPA014-0
Sampled:	11/30/06 16:00	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 18:45
Solids:	89.63	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
76-44-8	Heptachlor	20	0.19	D
1024-57-3	Heptachlor epoxide	20	0.28	DP
NA	Chlordane-gamma	20	1.0	D
NA	Chlordane-alpha	20	0.56	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012		
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047		
Matrix:	soil	Laboratory ID:	B610375-02RE2	File ID:	9LPA019-0		
Sampled:	11/30/06 16:00	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 20:54		
Solids:	89.63	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL		
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008	Instrument:	JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-55-9	4,4'-DDE	200	2.3	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02RE3	File ID:	9A3A019-0
Sampled:	11/30/06 16:00	Prepared:	12/08/06 09:31	Analyzed:	01/03/07 18:54
Solids:	89.63	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
72-54-8	4,4'-DDD	2000	55	D
50-29-3	4,4'-DDT	2000	59	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB081-02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-11	File ID:	9AKA028-0
Sampled:	12/01/06 10:25	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 22:18
Solids:	71.02	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.010	J
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.015	J
72-55-9	4,4'-DDE	1	0.008	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.010	J
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.164	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.109	
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.010	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.742	74	25 - 140	
DBC	1.00	0.643	64	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB081-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-12	File ID:	9AKA025-0
Sampled:	12/01/06 10:32	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 21:01
Solids:	80.58	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-85-7	beta-BHC	1	0.242	
319-86-8	delta-BHC	1	0.063	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB081-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-12RE1	File ID:	9AGA046-0
Sampled:	12/01/06 10:32	Prepared:	12/19/06 18:02	Analyzed:	01/14/07 03:14
Solids:	80.58	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.002	JP
NA	Chlordane-gamma	1	0.010	J
NA	Chlordane-alpha	1	0.022	JP
72-55-9	4,4'-DDE	1	0.005	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.017	J
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.105	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.029	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.982	98	25 - 140	
DBC	1.00	0.926	93	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB082-02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-13	File ID:	9AGA047-0
Sampled:	12/01/06 10:15	Prepared:	12/19/06 18:02	Analyzed:	01/14/07 03:40
Solids:	91.47	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.021	JP
NA	Chlordane-gamma	1	0.706	
72-55-9	4,4´-DDE	1	0.013	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.437	
72-20-8	Endrin	1	0.014	J
72-54-8	4,4´-DDD	1	0.008	J
33213-65-9	Endosulfan II	1	0.006	J
50-29-3	4,4´-DDT	1	0.011	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.589	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.875	88	25 - 140	
DBC	1.00	0.772	77	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB082-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-14	File ID:	9AKA026-0
Sampled:	12/01/06 10:21	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 21:27
Solids:	73.57	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L21006 Sequence: BA00172 Calibration: 0701020 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.023	J
319-86-8	delta-BHC	1	0.007	J
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.005	J
NA	Chlordane-gamma	1	0.008	J
72-55-9	4,4´-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.004	J
72-20-8	Endrin	1	0.050	U
72-54-8	4,4´-DDD	1	0.022	J
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4´-DDT	1	0.013	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.006	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.962	96	25 - 140	
DBC	1.00	0.928	93	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-15	File ID:	9AKA023-0
Sampled:	12/01/06 09:52	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 20:09
Solids:	93.90	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.025	JP
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.002	J
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.014	J
NA	Chlordane-gamma	1	0.526	
NA	Chlordane-alpha	1	0.489	
72-55-9	4,4'-DDE	1	0.051	
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.053	P
72-20-8	Endrin	1	0.015	JP
72-54-8	4,4'-DDD	1	0.051	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.058	
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.979	98	25 - 140	
DBC	1.00	0.903	90	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB083-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-16	File ID:	9AKA024-0
Sampled:	12/01/06 09:58	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 20:35
Solids:	94.21	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.029	J
319-86-8	delta-BHC	1	0.004	J
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.005	J
NA	Chlordane-gamma	1	0.089	
72-55-9	4,4'-DDE	1	0.008	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.017	J
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.036	J
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.026	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.079	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.905	90	25 - 140	
DBC	1.00	0.857	86	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-01	File ID:	9AKA027-0
Sampled:	11/30/06 15:52	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 21:52
Solids:	97.17	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.018	J
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.023	JP
NA	Chlordane-gamma	1	0.007	JP
NA	Chlordane-alpha	1	0.074	
72-55-9	4,4´-DDE	1	0.282	
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.139	
72-20-8	Endrin	1	0.018	J
72-54-8	4,4´-DDD	1	0.020	J
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4´-DDT	1	0.005	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.020	JP
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.014	J
8001-35-2	Toxaphene	1	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.966	97	25 - 140	
DBC	1.00	0.988	99	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02	File ID:	9AGA044-0
Sampled:	11/30/06 16:00	Prepared:	12/19/06 18:02	Analyzed:	01/14/07 02:22
Solids:	89.63	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.042	JP
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.129	
309-00-2	Aldrin	1	0.029	JP
NA	Chlordane-gamma	1	1.14	
72-55-9	4,4'-DDE	1	1.33	
959-98-8	Endosulfan I	1	0.040	JP
60-57-1	Dieldrin	1	0.096	P
72-20-8	Endrin	1	0.053	P
33213-65-9	Endosulfan II	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.012	JP
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
1024-57-3	Heptachlor epoxide	1	0.026	JP
NA	Chlordane-alpha	1	0.626	P
72-43-5	Methoxychlor	1	0.030	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.616	62	25 - 140	
DBC	1.00	0.554	55	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610375-02RE1	File ID:	9AKB022-0
Sampled:	11/30/06 16:00	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 19:43
Solids:	89.63	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
72-54-8	4,4'-DDD	20	36.9	D
50-29-3	4,4'-DDT	20	36.7	D

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-012

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB083-05-120106	B610375-16	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-DU02-120106	B610375-03	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB110-01-113006	B610375-01	NM	11/30/2006	12/15/2006	12/21/2006	15	6	21
M	MG/KG	JAX47-SB088-06-120106	B610375-20	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB088-03-120106	B610375-19	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB087-01-120106	B610375-17	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB110-05-113006	B610375-02	NM	11/30/2006	12/15/2006	12/21/2006	15	6	21
M	MG/KG	JAX47-SB083-01-120106	B610375-15	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB082-05-120106	B610375-14	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB082-02-120106	B610375-13	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB078-01-120106	B610375-05	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB087-05-120106	B610375-18	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-DU03-120106	B610375-04	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB081-05-120106	B610375-12	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB078-06-120106	B610375-06	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB079-01-120106	B610375-07	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB079-06-120106	B610375-08	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB080-01-120106	B610375-09	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB080-05-120106	B610375-10	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
M	MG/KG	JAX47-SB081-02-120106	B610375-11	NM	12/1/2006	12/15/2006	12/21/2006	14	6	20
PEST	%	JAX47-SB082-02-120106	B610375-13RE1	NM	12/1/2006	12/14/2006	12/20/2006	13	6	19
PEST	%	JAX47-SB088-06-120106	B610375-20	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	%	JAX47-SB088-03-120106	B610375-19	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	%	JAX47-SB087-05-120106	B610375-18	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	%	JAX47-SB087-01-120106	B610375-17	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	%	JAX47-SB083-05-120106	B610375-16	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	%	JAX47-SB083-01-120106	B610375-15	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	%	JAX47-SB082-05-120106	B610375-14	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	%	JAX47-SB110-01-113006	B610375-01RE1	NM	11/30/2006	12/14/2006	12/20/2006	14	6	20
PEST	%	JAX47-SB081-05-120106	B610375-12	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	%	JAX47-SB081-02-120106	B610375-11	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	%	JAX47-SB080-05-120106	B610375-10	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	%	JAX47-SB080-01-120106	B610375-09	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	%	JAX47-SB079-06-120106	B610375-08RE1	NM	12/1/2006	12/14/2006	12/20/2006	13	6	19
PEST	%	JAX47-SB079-01-120106	B610375-07	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	%	JAX47-SB078-06-120106	B610375-06	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	%	JAX47-SB078-01-120106	B610375-05	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	%	JAX47-DU02-120106	B610375-03	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	%	JAX47-SB110-05-113006	B610375-02	NM	11/30/2006	12/8/2006	12/27/2006	8	19	27
PEST	%	JAX47-DU03-120106	B610375-04	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	MG/KG	JAX47-DU02-120106	B610375-03RE1	NM	12/1/2006	12/8/2006	12/21/2006	7	13	20
PEST	MG/KG	JAX47-SB088-03-120106	B610375-19RE1	NM	12/1/2006	12/8/2006	1/16/2007	7	39	46
PEST	MG/KG	JAX47-SB083-05-120106	B610375-16	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	MG/KG	JAX47-SB083-05-120106	B610375-16RE1	NM	12/1/2006	12/8/2006	1/16/2007	7	39	46
PEST	MG/KG	JAX47-SB087-01-120106	B610375-17	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	MG/KG	JAX47-SB087-01-120106	B610375-17RE1	NM	12/1/2006	12/8/2006	12/21/2006	7	13	20
PEST	MG/KG	JAX47-SB087-01-120106	B610375-17RE2	NM	12/1/2006	12/8/2006	12/22/2006	7	14	21
PEST	MG/KG	JAX47-SB087-05-120106	B610375-18	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	MG/KG	JAX47-SB087-05-120106	B610375-18RE1	NM	12/1/2006	12/8/2006	12/21/2006	7	13	20
PEST	MG/KG	JAX47-DU02-120106	B610375-03	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	MG/KG	JAX47-SB088-03-120106	B610375-19	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	MG/KG	JAX47-SB083-01-120106	B610375-15RE1	NM	12/1/2006	12/8/2006	12/21/2006	7	13	20
PEST	MG/KG	JAX47-SB088-06-120106	B610375-20	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	MG/KG	JAX47-SB088-06-120106	B610375-20RE1	NM	12/1/2006	12/8/2006	1/16/2007	7	39	46
PEST	MG/KG	JAX47-SB110-01-113006	B610375-01RE1	NM	11/30/2006	12/14/2006	12/20/2006	14	6	20
PEST	MG/KG	JAX47-SB110-01-113006	B610375-01RE2	NM	11/30/2006	12/14/2006	12/22/2006	14	8	22
PEST	MG/KG	JAX47-SB110-01-113006	B610375-01RE3	NM	11/30/2006	12/14/2006	12/22/2006	14	8	22
PEST	MG/KG	JAX47-SB110-05-113006	B610375-02	NM	11/30/2006	12/8/2006	12/27/2006	8	19	27
PEST	MG/KG	JAX47-SB110-05-113006	B610375-02RE1	NM	11/30/2006	12/8/2006	12/21/2006	8	13	21
PEST	MG/KG	JAX47-SB110-05-113006	B610375-02RE2	NM	11/30/2006	12/8/2006	12/21/2006	8	13	21
PEST	MG/KG	JAX47-SB087-05-120106	B610375-18RE2	NM	12/1/2006	12/8/2006	1/16/2007	7	39	46
PEST	MG/KG	JAX47-SB081-02-120106	B610375-11	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	MG/KG	JAX47-DU03-120106	B610375-04	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	MG/KG	JAX47-SB078-01-120106	B610375-05	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	MG/KG	JAX47-SB078-06-120106	B610375-06	NM	12/1/2006	12/8/2006	12/27/2006	7	19	26
PEST	MG/KG	JAX47-SB079-01-120106	B610375-07	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	MG/KG	JAX47-SB079-01-120106	B610375-07RE1	NM	12/1/2006	12/8/2006	1/15/2007	7	38	45
PEST	MG/KG	JAX47-SB079-06-120106	B610375-08RE1	NM	12/1/2006	12/14/2006	12/20/2006	13	6	19
PEST	MG/KG	JAX47-SB080-01-120106	B610375-09	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	MG/KG	JAX47-SB080-01-120106	B610375-09RE1	NM	12/1/2006	12/8/2006	1/15/2007	7	38	45
PEST	MG/KG	JAX47-SB083-01-120106	B610375-15RE3	NM	12/1/2006	12/8/2006	1/16/2007	7	39	46
PEST	MG/KG	JAX47-SB080-05-120106	B610375-10RE1	NM	12/1/2006	12/8/2006	1/15/2007	7	38	45
PEST	MG/KG	JAX47-SB083-01-120106	B610375-15RE2	NM	12/1/2006	12/8/2006	12/22/2006	7	14	21
PEST	MG/KG	JAX47-SB081-05-120106	B610375-12	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	MG/KG	JAX47-SB081-05-120106	B610375-12RE1	NM	12/1/2006	12/8/2006	1/15/2007	7	38	45
PEST	MG/KG	JAX47-SB082-02-120106	B610375-13RE1	NM	12/1/2006	12/14/2006	12/20/2006	13	6	19
PEST	MG/KG	JAX47-SB082-02-120106	B610375-13RE2	NM	12/1/2006	12/14/2006	12/22/2006	13	8	21
PEST	MG/KG	JAX47-SB082-05-120106	B610375-14	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	MG/KG	JAX47-SB082-05-120106	B610375-14RE1	NM	12/1/2006	12/8/2006	1/15/2007	7	38	45
PEST	MG/KG	JAX47-SB083-01-120106	B610375-15	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11
PEST	MG/KG	JAX47-SB110-05-113006	B610375-02RE3	NM	11/30/2006	12/8/2006	1/3/2007	8	26	34
PEST	MG/KG	JAX47-SB080-05-120106	B610375-10	NM	12/1/2006	12/8/2006	12/12/2006	7	4	11

HOLDTIME

SDG BR006-012

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPM	MG/L	JAX47-SB081-05-120106	B610375-12	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB082-02-120106	B610375-13	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB082-05-120106	B610375-14	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB083-01-120106	B610375-15	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB083-05-120106	B610375-16	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB110-01-113006	B610375-01	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB110-05-113006	B610375-02	NM	11/30/2006	1/10/2007	1/11/2007	41	1	42
SPLPM	MG/L	JAX47-SB081-02-120106	B610375-11	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPP	%	JAX47-SB083-05-120106	B610375-16	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	%	JAX47-SB081-02-120106	B610375-11	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	%	JAX47-SB081-05-120106	B610375-12RE1	NM	12/1/2006	12/19/2006	1/14/2007	18	26	44
SPLPP	%	JAX47-SB082-02-120106	B610375-13	NM	12/1/2006	12/19/2006	1/14/2007	18	26	44
SPLPP	%	JAX47-SB083-01-120106	B610375-15	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	%	JAX47-SB110-01-113006	B610375-01	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	%	JAX47-SB110-05-113006	B610375-02	NM	11/30/2006	12/19/2006	1/14/2007	19	26	45

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPP	%	JAX47-SB082-05-120106	B610375-14	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB110-05-113006	B610375-02RE1	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB081-02-120106	B610375-11	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB081-05-120106	B610375-12	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB081-05-120106	B610375-12RE1	NM	12/1/2006	12/19/2006	1/14/2007	18	26	44
SPLPP	UG/L	JAX47-SB082-02-120106	B610375-13	NM	12/1/2006	12/19/2006	1/14/2007	18	26	44
SPLPP	UG/L	JAX47-SB082-05-120106	B610375-14	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB083-01-120106	B610375-15	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB083-05-120106	B610375-16	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB110-01-113006	B610375-01	NM	11/30/2006	12/19/2006	1/16/2007	19	28	47
SPLPP	UG/L	JAX47-SB110-05-113006	B610375-02	NM	11/30/2006	12/19/2006	1/14/2007	19	26	45

NAS JACKSONVILLE
SOIL DATA
BR006-013 AND BR006-012

FRACTION	CHEMICAL	JAX47-SB090-03-120106	UNITS	JAX47-DU03-120106	RPD	D	
PEST/PCB	4,4'-DDD	ND	MG/KG	0.00067 J	NC	NC	
PEST/PCB	4,4'-DDE	0.0023	MG/KG	0.0038	49.18	0.00	
PEST/PCB	4,4'-DDT	0.002	MG/KG	0.0064	104.76	0.00	J
PEST/PCB	ALPHA-CHLORDANE	ND	MG/KG	0.0014 J	NC	NC	
PEST/PCB	DIELDRIN	ND	MG/KG	0.00042 J	NC	NC	
PEST/PCB	ENDOSULFAN I	ND	MG/KG	0.00039 J	NC	NC	
PEST/PCB	ENDOSULFAN II	ND	MG/KG	0.0011 J	NC	NC	
PEST/PCB	GAMMA-CHLORDANE	0.00043 J	MG/KG	0.0017 JP	119.25	0.00	J

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.
ND = Compound not detected.
NC = Statistic not calculated

NAS JACKSONVILLE
SOIL DATA
BR006-013 AND BR006-012

FRACTION	CHEMICAL	JAX47-SB091-04-120106	UNITS	JAX47-DU02-120106	RPD	D
PEST/PCB	4,4'-DDD	0.014 J	MG/KG	0.011	24.00	0.00
PEST/PCB	4,4'-DDE	ND	MG/KG	0.032	NC	NC
PEST/PCB	4,4'-DDT	ND	MG/KG	0.21 D	NC	NC
PEST/PCB	ALPHA-BHC	0.0004 J	MG/KG	0.00087 J	74.02	0.00
PEST/PCB	ALPHA-CHLORDANE	ND	MG/KG	0.0053	NC	NC
PEST/PCB	BETA-BHC	ND	MG/KG	0.42 D	NC	NC
PEST/PCB	DELTA-BHC	ND	MG/KG	0.43 D	NC	NC
PEST/PCB	DIELDRIN	0.039 J	MG/KG	ND	NC	NC
PEST/PCB	ENDOSULFAN SULFATE	ND	MG/KG	0.00042 J	NC	NC
PEST/PCB	ENDRIN	ND	MG/KG	0.0008 J	NC	NC
PEST/PCB	ENDRIN ALDEHYDE	0.00049 J	MG/KG	0.0015 J	101.51	0.00
PEST/PCB	ENDRIN KETONE	0.0011 J	MG/KG	0.0011 J	0.00	0.00
PEST/PCB	GAMMA-BHC (LINDANE)	ND	MG/KG	0.00056 JP	NC	NC
PEST/PCB	GAMMA-CHLORDANE	0.0035 J	MG/KG	0.0059	51.06	0.00
PEST/PCB	HEPTACHLOR EPOXIDE	0.0023 J	MG/KG	0.0018 P	24.39	0.00
PEST/PCB	METHOXYCHLOR	ND	MG/KG	0.0056	NC	NC

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.
ND = Compound not detected.
NC = Statistic not calculated

NAS JACKSONVILLE
SOIL DATA
BR006-013 AND BR006-012

FRACTION	CHEMICAL	X47-SB091-04-120106-RI	UNITS	JAX47-DU02-120106	RPD	D
PEST/PCB	4,4'-DDD	ND	MG/KG	0.011	NC	NC
PEST/PCB	4,4'-DDE	0.083 J	MG/KG	0.032	88.70	0.05
PEST/PCB	4,4'-DDT	0.25 J	MG/KG	0.21	17.39	0.04
PEST/PCB	ALPHA-BHC	ND	MG/KG	0.00087 J	NC	NC
PEST/PCB	ALPHA-CHLORDANE	ND	MG/KG	0.0053	NC	NC
PEST/PCB	BETA-BHC	0.24 J	MG/KG	0.42	54.55	0.18
PEST/PCB	DELTA-BHC	0.23 J	MG/KG	0.43 D	60.61	0.20
PEST/PCB	ENDOSULFAN SULFATE	ND	MG/KG	0.00042 J	NC	NC
PEST/PCB	ENDRIN	ND	MG/KG	0.0008 J	NC	NC
PEST/PCB	ENDRIN ALDEHYDE	ND	MG/KG	0.0015 J	NC	NC
PEST/PCB	ENDRIN KETONE	ND	MG/KG	0.0011 J	NC	NC
PEST/PCB	GAMMA-BHC (LINDANE)	ND	MG/KG	0.00056 JP	NC	NC
PEST/PCB	GAMMA-CHLORDANE	ND	MG/KG	0.0059	NC	NC
PEST/PCB	HEPTACHLOR EPOXIDE	ND	MG/KG	0.0018 P	NC	NC
PEST/PCB	METHOXYCHLOR	ND	MG/KG	0.0056	NC	NC

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.
ND = Compound not detected.
NC = Statistic not calculated

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-012

Lab Sample ID	Client Sample ID
B610375-01	JAX47-SB110-01-113006
B610375-02	JAX47-SB110-05-113006
B610375-03	JAX47-DU02-120106
B610375-04	JAX47-DU03-120106
B610375-05	JAX47-SB078-01-120106
B610375-06	JAX47-SB078-06-120106
B610375-07	JAX47-SB079-01-120106
B610375-08	JAX47-SB079-06-120106
B610375-09	JAX47-SB080-01-120106
B610375-10	JAX47-SB080-05-120106
B610375-11	JAX47-SB081-02-120106
B610375-12	JAX47-SB081-05-120106
B610375-13	JAX47-SB082-02-120106
B610375-14	JAX47-SB082-01-120106
B610375-15	JAX47-SB083-01-120106
B610375-16	JAX47-SB083-05-120106
B610375-17	JAX47-SB087-01-120106
B610375-18	JAX47-SB087-05-120106
B610375-19	JAX47-SB088-03-120106
B610375-20	JAX47-SB088-06-120106

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The closing Continuing Calibration Verification Standard 9LEA024 was outside the DoD QSM control limits for Endosulfan I, 4,4-DDT and Methoxychlor. There was insufficient sample for re-analysis for JAX47-SB081-02-120106. The opening continuing calibration verification standard was within the DoD QSM control limits.
- Surrogate 2,4,5,6-TCMX for JAX47-SB079-01-120106, JAX47-SB080-01-120106, JAX47-SB080-05-120106, JAX47-SB081-05-120106, JAX47-SB082-01-120106, JAX47-SB087-01-120106, JAX47-SB081-02-120106 were outside the DoD QSM control limits. The data was accepted based on the surrogate DBC being within the DoD QSM control limits.
- Surrogate DBC for JAX47-SB110-01-113006 was outside the DoD QSM control limits. The data was accepted based on the surrogate 2,4,5,6-TCMX passing the DoD QSM control limits.
- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits due to the sample matrix.
- Laboratory Control Standard for 6L08006-BS1 for the Endrin Aldehyde is outside the DoD QSM control limits but within the marginal exceedance limits.
- The closing Continuing Calibration Verification Standard 9LDA020 was outside and above the DoD QSM control limits for 4,4-DDT. Results associated with this standard/compound are considered to be estimated bias low. JAX47-SB087-05-120106 RE1, JAX47-DU02-120106 RE1 are the related samples.
- JAX47-SB110-05-113006 surrogate recoveries for 2,4,5,6-TCMX and DBC were outside the DoD QSM control limits due to sample matrix.
- Methoxychlor for Continuing Calibration Verification Standard resulted outside and below the DoD QSM limit. Any sample result associated with this standard/compound is considered to be estimated bias low. JAX47-SB087-01-120106 is the related sample.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins

Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.23 16:32:38 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chuck Metz	12/01/2006	15:50	**Hand Deliver**	12/01/2006	16:50
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
				12/1/06	16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

ANALYSES DATA PACKAGE COVER PAGE

EPA 6010B

Laboratory: ENCO Jacksonville

SDG: BR006-012

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB110-01-113006	B610375-01
JAX47-SB110-05-113006	B610375-02
JAX47-DU02-120106	B610375-03
JAX47-DU03-120106	B610375-04
JAX47-SB078-01-120106	B610375-05
JAX47-SB078-06-120106	B610375-06
JAX47-SB079-01-120106	B610375-07
JAX47-SB079-06-120106	B610375-08
JAX47-SB080-01-120106	B610375-09
JAX47-SB080-05-120106	B610375-10
JAX47-SB081-02-120106	B610375-11
JAX47-SB081-05-120106	B610375-12
JAX47-SB082-02-120106	B610375-13
JAX47-SB082-05-120106	B610375-14
JAX47-SB083-01-120106	B610375-15
JAX47-SB083-05-120106	B610375-16
JAX47-SB087-01-120106	B610375-17
JAX47-SB087-05-120106	B610375-18
JAX47-SB088-03-120106	B610375-19
JAX47-SB088-06-120106	B610375-20

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.23 16:33:44 -05'00'

Name: Christina Tompkins

Date: 01/02/07

Title: Project Manager

ENCO Jacksonville
SDG: BR006-012
CLASS: PEST
METHOD: EPA 8081A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-012

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB110-01-113006	B610375-01
JAX47-SB110-01-113006	B610375-01RE1
JAX47-SB110-01-113006	B610375-01RE2
JAX47-SB110-01-113006	B610375-01RE3
JAX47-SB110-05-113006	B610375-02
JAX47-SB110-05-113006	B610375-02RE1
JAX47-SB110-05-113006	B610375-02RE2
JAX47-SB110-05-113006	B610375-02RE3
JAX47-DU02-120106	B610375-03
JAX47-DU02-120106	B610375-03RE1
JAX47-DU03-120106	B610375-04
JAX47-SB078-01-120106	B610375-05
JAX47-SB078-06-120106	B610375-06
JAX47-SB079-01-120106	B610375-07
JAX47-SB079-01-120106	B610375-07RE1
JAX47-SB079-06-120106	B610375-08RE1
JAX47-SB080-01-120106	B610375-09
JAX47-SB080-01-120106	B610375-09RE1
JAX47-SB080-05-120106	B610375-10
JAX47-SB080-05-120106	B610375-10RE1
JAX47-SB081-02-120106	B610375-11
JAX47-SB081-05-120106	B610375-12
JAX47-SB081-05-120106	B610375-12RE1
JAX47-SB082-02-120106	B610375-13RE1
JAX47-SB082-02-120106	B610375-13RE2
JAX47-SB082-05-120106	B610375-14
JAX47-SB082-05-120106	B610375-14RE1
JAX47-SB083-01-120106	B610375-15
JAX47-SB083-01-120106	B610375-15RE1
JAX47-SB083-01-120106	B610375-15RE2
JAX47-SB083-01-120106	B610375-15RE3
JAX47-SB083-05-120106	B610375-16
JAX47-SB083-05-120106	B610375-16RE1
JAX47-SB087-01-120106	B610375-17
JAX47-SB087-01-120106	B610375-17RE1
JAX47-SB087-01-120106	B610375-17RE2
JAX47-SB087-05-120106	B610375-18
JAX47-SB087-05-120106	B610375-18RE1
JAX47-SB087-05-120106	B610375-18RE2
JAX47-SB088-03-120106	B610375-19
JAX47-SB088-03-120106	B610375-19RE1

JAX47-SB088-06-120106	B610375-20
JAX47-SB088-06-120106	B610375-20RE1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:	Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@pensolabs.com, c=US Date: 2007.01.23 16:35:29 -05'00'	Name:	Christina Tompkins
Date:	01/22/07	Title:	Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-012

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.00013	0.0017	mg/kg
gamma-BHC	0.00016	0.0017	mg/kg
beta-BHC	0.00033	0.0017	mg/kg
delta-BHC	0.00016	0.0017	mg/kg
Heptachlor	0.00023	0.0017	mg/kg
Aldrin	0.00020	0.0017	mg/kg
Heptachlor epoxide	0.00056	0.0017	mg/kg
Chlordane-gamma	0.00023	0.0017	mg/kg
Chlordane-alpha	0.00026	0.0017	mg/kg
4,4′-DDE	0.00033	0.0017	mg/kg
Endosulfan I	0.00026	0.0017	mg/kg
Dieldrin	0.00023	0.0017	mg/kg
Endrin	0.00036	0.0017	mg/kg
4,4′-DDD	0.00030	0.0017	mg/kg
Endosulfan II	0.00023	0.0017	mg/kg
4,4′-DDT	0.00013	0.0017	mg/kg
Endrin aldehyde	0.00016	0.0017	mg/kg
Methoxychlor	0.00033	0.0017	mg/kg
Endosulfan sulfate	0.00026	0.0017	mg/kg
Endrin ketone	0.00030	0.0017	mg/kg
Toxaphene	0.0016	0.033	mg/kg
alpha-BHC [2C]	0.00013	0.0017	mg/kg
gamma-BHC [2C]	0.00016	0.0017	mg/kg
beta-BHC [2C]	0.00033	0.0017	mg/kg
delta-BHC [2C]	0.00016	0.0017	mg/kg
Heptachlor [2C]	0.00023	0.0017	mg/kg
Aldrin [2C]	0.00020	0.0017	mg/kg
Heptachlor epoxide [2C]	0.00056	0.0017	mg/kg
Chlordane-gamma [2C]	0.00023	0.0017	mg/kg
Chlordane-alpha [2C]	0.00026	0.0017	mg/kg
4,4'-DDE [2C]	0.00033	0.0017	mg/kg
Endosulfan I [2C]	0.00026	0.0017	mg/kg
Dieldrin [2C]	0.00023	0.0017	mg/kg
Endrin [2C]	0.00036	0.0017	mg/kg
4,4'-DDD [2C]	0.00030	0.0017	mg/kg
Endosulfan II [2C]	0.00023	0.0017	mg/kg
4,4'-DDT [2C]	0.00013	0.0017	mg/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-012

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.00016	0.0017	mg/kg
Methoxychlor [2C]	0.00033	0.0017	mg/kg
Endosulfan sulfate [2C]	0.00026	0.0017	mg/kg
Endrin ketone [2C]	0.00030	0.0017	mg/kg
Toxaphene [2C]	0.0016	0.033	mg/kg

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB110-01-113006	11/30/06 15:52	12/01/06 16:50	12/14/06 18:51	14.00	14.00	12/20/06 16:48	6.00	40.00	
JAX47-SB110-01-113006	11/30/06 15:52	12/01/06 16:50	12/14/06 18:51	14.00	14.00	12/22/06 18:08	8.00	40.00	
JAX47-SB110-01-113006	11/30/06 15:52	12/01/06 16:50	12/14/06 18:51	14.00	14.00	12/22/06 18:59	8.00	40.00	
JAX47-SB110-05-113006	11/30/06 16:00	12/01/06 16:50	12/08/06 09:31	8.00	14.00	12/27/06 03:54	19.00	40.00	
JAX47-SB110-05-113006	11/30/06 16:00	12/01/06 16:50	12/08/06 09:31	8.00	14.00	12/21/06 18:45	13.00	40.00	
JAX47-SB110-05-113006	11/30/06 16:00	12/01/06 16:50	12/08/06 09:31	8.00	14.00	12/21/06 20:54	13.00	40.00	
JAX47-SB110-05-113006	11/30/06 16:00	12/01/06 16:50	12/08/06 09:31	8.00	14.00	01/03/07 18:54	26.00	40.00	
JAX47-DU02-120106	12/01/06 00:00	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/27/06 03:28	19.00	40.00	
JAX47-DU02-120106	12/01/06 00:00	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/21/06 20:02	13.00	40.00	
JAX47-DU03-120106	12/01/06 00:00	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/27/06 02:11	19.00	40.00	
JAX47-SB078-01-120106	12/01/06 12:26	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/27/06 02:37	19.00	40.00	
JAX47-SB078-06-120106	12/01/06 12:33	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/27/06 03:03	19.00	40.00	
JAX47-SB079-01-120106	12/01/06 12:11	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/12/06 01:22	4.00	40.00	
JAX47-SB079-01-120106	12/01/06 12:11	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/15/07 21:56	39.00	40.00	
JAX47-SB079-06-120106	12/01/06 12:18	12/01/06 16:50	12/14/06 18:51	13.00	14.00	12/20/06 14:13	6.00	40.00	
JAX47-SB080-01-120106	12/01/06 09:12	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/12/06 02:13	4.00	40.00	
JAX47-SB080-01-120106	12/01/06 09:12	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/15/07 22:22	39.00	40.00	
JAX47-SB080-05-120106	12/01/06 09:39	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/12/06 02:39	4.00	40.00	
JAX47-SB080-05-120106	12/01/06 09:39	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/15/07 22:48	39.00	40.00	
JAX47-SB081-02-120106	12/01/06 10:25	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/12/06 03:05	4.00	40.00	
JAX47-SB081-05-120106	12/01/06 10:32	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/12/06 03:31	4.00	40.00	
JAX47-SB081-05-120106	12/01/06 10:32	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/15/07 23:14	39.00	40.00	
JAX47-SB082-02-120106	12/01/06 10:15	12/01/06 16:50	12/14/06 18:51	13.00	14.00	12/20/06 15:05	6.00	40.00	
JAX47-SB082-02-120106	12/01/06 10:15	12/01/06 16:50	12/14/06 18:51	13.00	14.00	12/22/06 17:42	8.00	40.00	

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB082-05-120106	12/01/06 10:21	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/12/06 04:23	4.00	40.00	
JAX47-SB082-05-120106	12/01/06 10:21	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/15/07 23:40	39.00	40.00	
JAX47-SB083-01-120106	12/01/06 09:52	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/12/06 04:49	4.00	40.00	
JAX47-SB083-01-120106	12/01/06 09:52	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/21/06 19:11	13.00	40.00	
JAX47-SB083-01-120106	12/01/06 09:52	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/22/06 22:34	15.00	40.00	
JAX47-SB083-01-120106	12/01/06 09:52	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/16/07 00:06	39.00	40.00	
JAX47-SB083-05-120106	12/01/06 09:58	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/12/06 05:15	4.00	40.00	
JAX47-SB083-05-120106	12/01/06 09:58	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/16/07 00:31	39.00	40.00	
JAX47-SB087-01-120106	12/01/06 10:40	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/27/06 14:47	19.00	40.00	
JAX47-SB087-01-120106	12/01/06 10:40	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/21/06 20:28	13.00	40.00	
JAX47-SB087-01-120106	12/01/06 10:40	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/22/06 23:00	15.00	40.00	
JAX47-SB087-05-120106	12/01/06 10:48	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/27/06 14:21	19.00	40.00	
JAX47-SB087-05-120106	12/01/06 10:48	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/21/06 19:36	13.00	40.00	
JAX47-SB087-05-120106	12/01/06 10:48	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/16/07 02:15	39.00	40.00	
JAX47-SB088-03-120106	12/01/06 11:45	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/27/06 13:30	19.00	40.00	
JAX47-SB088-03-120106	12/01/06 11:45	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/16/07 00:57	39.00	40.00	
JAX47-SB088-06-120106	12/01/06 11:59	12/01/06 16:50	12/08/06 09:31	7.00	14.00	12/27/06 13:55	19.00	40.00	
JAX47-SB088-06-120106	12/01/06 11:59	12/01/06 16:50	12/08/06 09:31	7.00	14.00	01/16/07 01:23	39.00	40.00	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L08006-BLK1	File ID:	9LUA030-0
Prepared:	12/08/06 09:31	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/27/06 00:28	Instrument:	JSVGCECD2		
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4'-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4'-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4'-DDT	0.00030	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
8001-35-2	Toxaphene [2C]	0.033	U
319-84-6	alpha-BHC [2C]	0.0017	U
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	6L08006-BLK1	File ID:	9LUB030-0
Prepared:	12/08/06 09:31	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/27/06 00:28	Instrument:	JSVGCECD2		
Batch:	6L08006	Sequence:	BA00093	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
NA	Chlordane-alpha [2C]	0.0017	U
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.0017	U
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.00030	J
7421-93-4	Endrin aldehyde [2C]	0.0017	U
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.022	67	70 - 125	*
2,4,5,6-TCMX [2C]	0.0333	0.022	67	70 - 125	*
DBC	0.0333	0.025	76	55 - 130	
DBC [2C]	0.0333	0.025	76	55 - 130	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L14027-BLK1	File ID:	9LOA006-0
Prepared:	12/14/06 18:51	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/20/06 13:22	Instrument:	JSVGCECD2		
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4'-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4'-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4'-DDT	0.00030	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
8001-35-2	Toxaphene [2C]	0.033	U
319-84-6	alpha-BHC [2C]	0.0017	U
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-012	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L14027-BLK1	File ID:	9LOB006-0
Prepared:	12/14/06 18:51	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/20/06 13:22	Instrument:	JSVGCECD2		
Batch:	6L14027	Sequence:	BA00107	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
NA	Chlordane-alpha [2C]	0.0017	U
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.0017	U
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.00027	J
7421-93-4	Endrin aldehyde [2C]	0.0017	U
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.028	84	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.027	81	70 - 125	
DBC	0.0333	0.029	88	55 - 130	
DBC [2C]	0.0333	0.029	86	55 - 130	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L08006
Laboratory ID: 6L08006-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0343	ND	0.029	83	60 - 125
gamma-BHC	0.0343	ND	0.030	87	60 - 125
beta-BHC	0.0343	0.0034	0.028	72	60 - 125
delta-BHC	0.0343	0.0038	0.027	68	55 - 130
Heptachlor	0.0343	ND	0.028	82	50 - 140
Aldrin	0.0343	ND	0.026	77	45 - 140
Heptachlor epoxide	0.0343	ND	0.057	167 *	65 - 130
Chlordane-gamma	0.0343	ND	0.15	438 *	65 - 125
Chlordane-alpha	0.0343	ND	0.25	722 *	65 - 120
4,4'-DDE	0.0343	0.0012	0.21	608 *	70 - 125
Endosulfan I	0.0343	ND	0.031	90	15 - 135
Dieldrin	0.0343	0.0052	0.13	368 *	65 - 125
Endrin	0.0343	0.015	0.070	160 *	60 - 135
4,4'-DDD	0.0343	0.020	0.090	205 *	30 - 135
Endosulfan II	0.0343	ND	0.044	129	35 - 140
4,4'-DDT	0.0343	0.0041	0.25	720 *	45 - 140
Endrin aldehyde	0.0343	0.0024	0.010	23 *	35 - 145
Methoxychlor	0.0343	ND	0.041	119	55 - 145
Endosulfan sulfate	0.0343	ND	0.055	160 *	60 - 135
Endrin ketone	0.0343	ND	0.044	128	65 - 135
alpha-BHC [2C]	0.0343	ND	0.027	79	60 - 125
gamma-BHC [2C]	0.0343	ND	0.029	83	60 - 125
beta-BHC [2C]	0.0343	0.0033	0.027	68	60 - 125
delta-BHC [2C]	0.0343	0.0038	0.023	56	55 - 130
Heptachlor [2C]	0.0343	ND	0.026	75	50 - 140
Aldrin [2C]	0.0343	ND	0.028	81	45 - 140
Heptachlor epoxide [2C]	0.0343	ND	0.035	102	65 - 130
Chlordane-gamma [2C]	0.0343	ND	0.14	406 *	65 - 125
Chlordane-alpha [2C]	0.0343	0.00034	0.14	413 *	65 - 120
4,4'-DDE [2C]	0.0343	0.0014	0.19	561 *	70 - 125
Endosulfan I [2C]	0.0343	ND	0.037	109	15 - 135
Dieldrin [2C]	0.0343	0.0016	0.12	345 *	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L08006
Laboratory ID: 6L08006-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0343	ND	0.060	176 *	60 - 135
4,4'-DDD [2C]	0.0343	0.00086	0.12	339 *	30 - 135
Endosulfan II [2C]	0.0343	ND	0.034	100	35 - 140
4,4'-DDT [2C]	0.0343	0.0027	0.24	695 *	45 - 140
Endrin aldehyde [2C]	0.0343	ND	0.042	122	35 - 145
Methoxychlor [2C]	0.0343	0.037	0.034	-8 *	55 - 145
Endosulfan sulfate [2C]	0.0343	ND	0.036	106	60 - 135
Endrin ketone [2C]	0.0343	ND	0.047	138 *	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0343	0.0011	3 *	186 *	30	60 - 125
gamma-BHC	0.0343	0.0012	4 *	184 *	30	60 - 125
beta-BHC	0.0343	0.0027	-2 *	164 *	30	60 - 125
delta-BHC	0.0343	0.00082	-9 *	188 *	30	55 - 130
Heptachlor	0.0343	0.0012	3 *	184 *	30	50 - 140
Aldrin	0.0343	0.00027	0.8 *	196 *	30	45 - 140
Heptachlor epoxide	0.0343	0.026	75	76 *	30	65 - 130
Chlordane-gamma	0.0343	0.14	420 *	4	30	65 - 125
Chlordane-alpha	0.0343	0.24	707 *	2	30	65 - 120
4,4'-DDE	0.0343	0.20	589 *	3	30	70 - 125
Endosulfan I	0.0343	0.0074	22	123 *	30	15 - 135
Dieldrin	0.0343	0.11	318 *	14	30	65 - 125
Endrin	0.0343	0.036	60	65 *	30	60 - 135
4,4'-DDD	0.0343	0.13	309 *	33 *	30	30 - 135
Endosulfan II	0.0343	0.017	48	91 *	30	35 - 140
4,4'-DDT	0.0343	0.26	753 *	4	30	45 - 140
Endrin aldehyde	0.0343	0.015	37	38 *	30	35 - 145
Methoxychlor	0.0343	0.014	41 *	98 *	30	55 - 145
Endosulfan sulfate	0.0343	0.022	63	87 *	30	60 - 135
Endrin ketone	0.0343	0.0083	24 *	137 *	30	65 - 135
alpha-BHC [2C]	0.0343	0.00034	1 *	195 *	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L08006	Laboratory ID:	6L08006-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		% RPD #		QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0343	0.0012	4	*	183	*	30	60 - 125
beta-BHC [2C]	0.0343	0.0017	-5	*	176	*	30	60 - 125
delta-BHC [2C]	0.0343	0.00069	-9	*	188	*	30	55 - 130
Heptachlor [2C]	0.0343	0.0012	3	*	183	*	30	50 - 140
Aldrin [2C]	0.0343	0.0017	5	*	176	*	30	45 - 140
Heptachlor epoxide [2C]	0.0343	0.0081	24	*	125	*	30	65 - 130
Chlordane-gamma [2C]	0.0343	0.13	389	*	4		30	65 - 125
Chlordane-alpha [2C]	0.0343	0.13	389	*	6		30	65 - 120
4,4'-DDE [2C]	0.0343	0.19	541	*	4		30	70 - 125
Endosulfan I [2C]	0.0343	0.0078	23		131	*	30	15 - 135
Dieldrin [2C]	0.0343	0.11	303	*	13		30	65 - 125
Endrin [2C]	0.0343	0.033	97		58	*	30	60 - 135
4,4'-DDD [2C]	0.0343	0.15	420	*	21		30	30 - 135
Endosulfan II [2C]	0.0343	0.012	35		97	*	30	35 - 140
4,4'-DDT [2C]	0.0343	0.25	732	*	5		30	45 - 140
Endrin aldehyde [2C]	0.0343	0.021	60		68	*	30	35 - 145
Methoxychlor [2C]	0.0343	0.0014	-104	*	185	*	30	55 - 145
Endosulfan sulfate [2C]	0.0343	0.0065	19	*	139	*	30	60 - 135
Endrin ketone [2C]	0.0343	0.016	46	*	100	*	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0343	0.00027	0.024	70	60 - 125
gamma-BHC	0.0343	0.00096	0.030	84	60 - 125
beta-BHC	0.0343	0.0017	0.029	80	60 - 125
delta-BHC	0.0343	0.00058	0.023	66	55 - 130
Heptachlor	0.0343	0.00041	0.024	69	50 - 140
Aldrin	0.0343	ND	0.023	68	45 - 140
Heptachlor epoxide	0.0343	0.034	0.048	42 *	65 - 130
Chlordane-gamma	0.0343	0.15	0.14	-39 *	65 - 125
Chlordane-alpha	0.0343	0.00089	0.00069	-0.6 *	65 - 120
4,4'-DDE	0.0343	0.22	0.20	-44 *	70 - 125
Endosulfan I	0.0343	ND	0.026	75	15 - 135
Dieldrin	0.0343	0.13	0.12	-28 *	65 - 125
Endrin	0.0343	0.046	0.057	32 *	60 - 135
4,4'-DDD	0.0343	0.065	0.084	57	30 - 135
Endosulfan II	0.0343	ND	0.038	110	35 - 140
4,4'-DDT	0.0343	0.25	0.24	-26 *	45 - 140
Endrin aldehyde	0.0343	0.013	0.031	53	35 - 145
Methoxychlor	0.0343	0.012	0.035	67	55 - 145
Endosulfan sulfate	0.0343	0.010	0.033	67	60 - 135
Endrin ketone	0.0343	0.0097	0.032	64 *	65 - 135
alpha-BHC [2C]	0.0343	0.00024	0.023	66	60 - 125
gamma-BHC [2C]	0.0343	0.0011	0.029	80	60 - 125
beta-BHC [2C]	0.0343	0.00093	0.024	67	60 - 125
delta-BHC [2C]	0.0343	0.00048	0.021	60	55 - 130
Heptachlor [2C]	0.0343	0.00051	0.022	64	50 - 140
Aldrin [2C]	0.0343	0.00099	0.028	80	45 - 140
Heptachlor epoxide [2C]	0.0343	0.011	0.030	56 *	65 - 130
Chlordane-gamma [2C]	0.0343	0.11	0.13	64 *	65 - 125
Chlordane-alpha [2C]	0.0343	0.14	0.11	-84 *	65 - 120
4,4'-DDE [2C]	0.0343	0.19	0.18	-30 *	70 - 125
Endosulfan I [2C]	0.0343	ND	0.027	78	15 - 135
Dieldrin [2C]	0.0343	0.12	0.11	-34 *	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0343	0.042	0.050	24 *	60 - 135
4,4'-DDD [2C]	0.0343	0.10	0.11	8 *	30 - 135
Endosulfan II [2C]	0.0343	ND	0.031	90	35 - 140
4,4'-DDT [2C]	0.0343	0.25	0.23	-37 *	45 - 140
Endrin aldehyde [2C]	0.0343	0.020	0.042	66	35 - 145
Methoxychlor [2C]	0.0343	0.00048	0.034	99	55 - 145
Endosulfan sulfate [2C]	0.0343	0.0064	0.028	64	60 - 135
Endrin ketone [2C]	0.0343	0.018	0.042	73	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0343	0.031	89	25	30	60 - 125
gamma-BHC	0.0343	0.035	98	15	30	60 - 125
beta-BHC	0.0343	0.032	89	10	30	60 - 125
delta-BHC	0.0343	0.031	87	28	30	55 - 130
Heptachlor	0.0343	0.030	87	22	30	50 - 140
Aldrin	0.0343	0.029	84	22	30	45 - 140
Heptachlor epoxide	0.0343	0.059	74	20	30	65 - 130
Chlordane-gamma	0.0343	0.15	-8 *	7	30	65 - 125
Chlordane-alpha	0.0343	0.00089	0 *	26	30	65 - 120
4,4'-DDE	0.0343	0.21	-20 *	4	30	70 - 125
Endosulfan I	0.0343	0.033	96	25	30	15 - 135
Dieldrin	0.0343	0.13	-3 *	7	30	65 - 125
Endrin	0.0343	0.068	65	18	30	60 - 135
4,4'-DDD	0.0343	0.12	155 *	33 *	30	30 - 135
Endosulfan II	0.0343	0.043	126	14	30	35 - 140
4,4'-DDT	0.0343	0.25	-9 *	2	30	45 - 140
Endrin aldehyde	0.0343	0.041	80	26	30	35 - 145
Methoxychlor	0.0343	0.050	109	34 *	30	55 - 145
Endosulfan sulfate	0.0343	0.054	127	47 *	30	60 - 135
Endrin ketone	0.0343	0.046	107	38 *	30	65 - 135
alpha-BHC [2C]	0.0343	0.030	85	25	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L14027	Laboratory ID:	6L14027-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0343	0.033	94	16	30	60 - 125
beta-BHC [2C]	0.0343	0.030	86	24	30	60 - 125
delta-BHC [2C]	0.0343	0.027	78	27	30	55 - 130
Heptachlor [2C]	0.0343	0.028	81	23	30	50 - 140
Aldrin [2C]	0.0343	0.030	86	7	30	45 - 140
Heptachlor epoxide [2C]	0.0343	0.037	76	20	30	65 - 130
Chlordane-gamma [2C]	0.0343	0.11	6 *	16	30	65 - 125
Chlordane-alpha [2C]	0.0343	0.12	-72 *	4	30	65 - 120
4,4'-DDE [2C]	0.0343	0.19	-8 *	4	30	70 - 125
Endosulfan I [2C]	0.0343	0.034	100	25	30	15 - 135
Dieldrin [2C]	0.0343	0.12	-5 *	9	30	65 - 125
Endrin [2C]	0.0343	0.062	58 *	21	30	60 - 135
4,4'-DDD [2C]	0.0343	0.14	104	27	30	30 - 135
Endosulfan II [2C]	0.0343	0.039	114	23	30	35 - 140
4,4'-DDT [2C]	0.0343	0.24	-11 *	4	30	45 - 140
Endrin aldehyde [2C]	0.0343	0.056	106	28	30	35 - 145
Methoxychlor [2C]	0.0343	0.045	131	28	30	55 - 145
Endosulfan sulfate [2C]	0.0343	0.038	93	30	30	60 - 135
Endrin ketone [2C]	0.0343	0.048	88	12	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L08006
Laboratory ID: 6L08006-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.028	83	60 - 125
gamma-BHC	0.0333	0.028	83	60 - 125
beta-BHC	0.0333	0.029	88	60 - 125
delta-BHC	0.0333	0.028	85	55 - 130
Heptachlor	0.0333	0.027	80	50 - 140
Aldrin	0.0333	0.026	78	45 - 140
Heptachlor epoxide	0.0333	0.026	78	65 - 130
Chlordane-gamma	0.0333	0.027	82	65 - 125
Chlordane-alpha	0.0333	0.027	82	65 - 120
4,4'-DDE	0.0333	0.027	81	70 - 125
Endosulfan I	0.0333	0.016	47	15 - 135
Dieldrin	0.0333	0.027	80	65 - 125
Endrin	0.0333	0.020	62	60 - 135
4,4'-DDD	0.0333	0.028	83	30 - 135
Endosulfan II	0.0333	0.025	76	35 - 140
4,4'-DDT	0.0333	0.026	79	45 - 140
Endrin aldehyde	0.0333	0.0065	20 *	35 - 145
Methoxychlor	0.0333	0.022	66	55 - 145
Endosulfan sulfate	0.0333	0.028	84	60 - 135
Endrin ketone	0.0333	0.031	93	65 - 135
alpha-BHC [2C]	0.0333	0.028	83	60 - 125
gamma-BHC [2C]	0.0333	0.028	84	60 - 125
beta-BHC [2C]	0.0333	0.029	88	60 - 125
delta-BHC [2C]	0.0333	0.028	84	55 - 130
Heptachlor [2C]	0.0333	0.027	81	50 - 140
Aldrin [2C]	0.0333	0.027	80	45 - 140
Heptachlor epoxide [2C]	0.0333	0.027	81	65 - 130
Chlordane-gamma [2C]	0.0333	0.028	83	65 - 125
Chlordane-alpha [2C]	0.0333	0.027	82	65 - 120
4,4'-DDE [2C]	0.0333	0.028	84	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L08006	Laboratory ID:	6L08006-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.016	47	15 - 135
Dieldrin [2C]	0.0333	0.027	82	65 - 125
Endrin [2C]	0.0333	0.021	62	60 - 135
4,4'-DDD [2C]	0.0333	0.028	83	30 - 135
Endosulfan II [2C]	0.0333	0.026	76	35 - 140
4,4'-DDT [2C]	0.0333	0.027	80	45 - 140
Endrin aldehyde [2C]	0.0333	0.0067	20 *	35 - 145
Methoxychlor [2C]	0.0333	0.022	67	55 - 145
Endosulfan sulfate [2C]	0.0333	0.028	85	60 - 135
Endrin ketone [2C]	0.0333	0.031	94	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L14027	Laboratory ID:	6L14027-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.029	88	60 - 125
gamma-BHC	0.0333	0.030	89	60 - 125
beta-BHC	0.0333	0.031	94	60 - 125
delta-BHC	0.0333	0.028	84	55 - 130
Heptachlor	0.0333	0.029	88	50 - 140
Aldrin	0.0333	0.029	86	45 - 140
Heptachlor epoxide	0.0333	0.029	88	65 - 130
Chlordane-gamma	0.0333	0.029	87	65 - 125
Chlordane-alpha	0.0333	0.029	87	65 - 120
4,4'-DDE	0.0333	0.030	90	70 - 125
Endosulfan I	0.0333	0.029	87	15 - 135
Dieldrin	0.0333	0.030	90	65 - 125
Endrin	0.0333	0.030	91	60 - 135
4,4'-DDD	0.0333	0.031	93	30 - 135
Endosulfan II	0.0333	0.030	89	35 - 140
4,4'-DDT	0.0333	0.029	88	45 - 140
Endrin aldehyde	0.0333	0.030	89	35 - 145
Methoxychlor	0.0333	0.029	87	55 - 145
Endosulfan sulfate	0.0333	0.030	90	60 - 135
Endrin ketone	0.0333	0.027	82	65 - 135
alpha-BHC [2C]	0.0333	0.028	85	60 - 125
gamma-BHC [2C]	0.0333	0.029	86	60 - 125
beta-BHC [2C]	0.0333	0.030	89	60 - 125
delta-BHC [2C]	0.0333	0.027	80	55 - 130
Heptachlor [2C]	0.0333	0.028	83	50 - 140
Aldrin [2C]	0.0333	0.028	85	45 - 140
Heptachlor epoxide [2C]	0.0333	0.028	85	65 - 130
Chlordane-gamma [2C]	0.0333	0.028	85	65 - 125
Chlordane-alpha [2C]	0.0333	0.028	85	65 - 120
4,4'-DDE [2C]	0.0333	0.030	89	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L14027
Laboratory ID: 6L14027-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.029	87	15 - 135
Dieldrin [2C]	0.0333	0.029	88	65 - 125
Endrin [2C]	0.0333	0.030	90	60 - 135
4,4'-DDD [2C]	0.0333	0.030	91	30 - 135
Endosulfan II [2C]	0.0333	0.030	89	35 - 140
4,4'-DDT [2C]	0.0333	0.028	85	45 - 140
Endrin aldehyde [2C]	0.0333	0.029	87	35 - 145
Methoxychlor [2C]	0.0333	0.029	88	55 - 145
Endosulfan sulfate [2C]	0.0333	0.030	89	60 - 135
Endrin ketone [2C]	0.0333	0.027	82	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00093	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB083-01-120106 (B610375-15RE1)			Lab File ID: 9LPA015-0		Analyzed: 12/21/06 19:11			
2,4,5,6-TCMX	0.0355	78	70 - 125	6.73	6.848286	-0.1183	+/-0.3	
2,4,5,6-TCMX [2C]	0.0355	81	70 - 125	6.461	6.564286	-0.1033	+/-0.3	
DBC	0.0355	113	55 - 130	13.995	14.10214	-0.1071	+/-0.3	
DBC [2C]	0.0355	91	55 - 130	13.814	13.90914	-0.0951	+/-0.3	
JAX47-SB087-05-120106 (B610375-18RE1)			Lab File ID: 9LPA016-0		Analyzed: 12/21/06 19:36			
2,4,5,6-TCMX	0.0438	116	70 - 125	6.731	6.848286	-0.1173	+/-0.3	
2,4,5,6-TCMX [2C]	0.0438	117	70 - 125	6.462	6.564286	-0.1023	+/-0.3	
DBC	0.0438	88	55 - 130	13.996	14.10214	-0.1061	+/-0.3	
DBC [2C]	0.0438	91	55 - 130	13.815	13.90914	-0.0941	+/-0.3	
JAX47-DU02-120106 (B610375-03RE1)			Lab File ID: 9LPA017-0		Analyzed: 12/21/06 20:02			
2,4,5,6-TCMX	0.0347	71	70 - 125	6.73	6.848286	-0.1183	+/-0.3	
2,4,5,6-TCMX [2C]	0.0347	63	70 - 125	6.46	6.564286	-0.1043	+/-0.3	*
DBC	0.0347	75	55 - 130	13.995	14.10214	-0.1071	+/-0.3	
DBC [2C]	0.0347	76	55 - 130	13.814	13.90914	-0.0951	+/-0.3	
JAX47-SB087-01-120106 (B610375-17RE1)			Lab File ID: 9LPA018-0		Analyzed: 12/21/06 20:28			
2,4,5,6-TCMX	0.0470	57	70 - 125	6.73	6.848286	-0.1183	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0470	59	70 - 125	6.462	6.564286	-0.1023	+/-0.3	*
DBC	0.0470	67	55 - 130	13.994	14.10214	-0.1081	+/-0.3	
DBC [2C]	0.0470	60	55 - 130	13.815	13.90914	-0.0941	+/-0.3	
Blank (6L08006-BLK1)			Lab File ID: 9LUA030-0		Analyzed: 12/27/06 00:28			
2,4,5,6-TCMX	0.0333	67	70 - 125	6.636	6.848286	-0.2123	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0333	67	70 - 125	6.371	6.564286	-0.1933	+/-0.3	*
DBC	0.0333	76	55 - 130	13.906	14.10214	-0.1961	+/-0.3	
DBC [2C]	0.0333	76	55 - 130	13.734	13.90914	-0.1751	+/-0.3	
JAX47-DU03-120106 (B610375-04)			Lab File ID: 9LUA034-0		Analyzed: 12/27/06 02:11			
2,4,5,6-TCMX	0.0353	73	70 - 125	6.637	6.848286	-0.2113	+/-0.3	
2,4,5,6-TCMX [2C]	0.0353	71	70 - 125	6.372	6.564286	-0.1923	+/-0.3	
DBC	0.0353	74	55 - 130	13.905	14.10214	-0.1971	+/-0.3	
DBC [2C]	0.0353	71	55 - 130	13.735	13.90914	-0.1741	+/-0.3	
JAX47-SB078-01-120106 (B610375-05)			Lab File ID: 9LUA035-0		Analyzed: 12/27/06 02:37			
2,4,5,6-TCMX	0.0346	78	70 - 125	6.637	6.848286	-0.2113	+/-0.3	
2,4,5,6-TCMX [2C]	0.0346	76	70 - 125	6.373	6.564286	-0.1913	+/-0.3	
DBC	0.0346	87	55 - 130	13.905	14.10214	-0.1971	+/-0.3	
DBC [2C]	0.0346	81	55 - 130	13.735	13.90914	-0.1741	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00093	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB078-06-120106 (B610375-06)			Lab File ID: 9LUA036-0		Analyzed: 12/27/06 03:03			
2,4,5,6-TCMX	0.0367	76	70 - 125	6.636	6.848286	-0.2123	+/-0.3	
2,4,5,6-TCMX [2C]	0.0367	75	70 - 125	6.372	6.564286	-0.1923	+/-0.3	
DBC	0.0367	80	55 - 130	13.905	14.10214	-0.1971	+/-0.3	
DBC [2C]	0.0367	77	55 - 130	13.735	13.90914	-0.1741	+/-0.3	
JAX47-DU02-120106 (B610375-03)			Lab File ID: 9LUA037-0		Analyzed: 12/27/06 03:28			
2,4,5,6-TCMX	0.0347	80	70 - 125	6.637	6.848286	-0.2113	+/-0.3	
2,4,5,6-TCMX [2C]	0.0347	80	70 - 125	6.372	6.564286	-0.1923	+/-0.3	
DBC	0.0347	91	55 - 130	13.905	14.10214	-0.1971	+/-0.3	
DBC [2C]	0.0347	83	55 - 130	13.735	13.90914	-0.1741	+/-0.3	
JAX47-SB110-05-113006 (B610375-02)			Lab File ID: 9LUA038-0		Analyzed: 12/27/06 03:54			
2,4,5,6-TCMX	0.0372	26	70 - 125	6.636	6.848286	-0.2123	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0372	85	70 - 125	6.372	6.564286	-0.1923	+/-0.3	
DBC	0.0372	723	55 - 130	13.92	14.10214	-0.1821	+/-0.3	*
DBC [2C]	0.0372	90	55 - 130	13.733	13.90914	-0.1761	+/-0.3	
JAX47-SB088-03-120106 (B610375-19)			Lab File ID: 9LVA008-0		Analyzed: 12/27/06 13:30			
2,4,5,6-TCMX	0.0370	89	70 - 125	6.633	6.848286	-0.2153	+/-0.3	
2,4,5,6-TCMX [2C]	0.0370	86	70 - 125	6.369	6.564286	-0.1953	+/-0.3	
DBC	0.0370	85	55 - 130	13.901	14.10214	-0.2011	+/-0.3	
DBC [2C]	0.0370	85	55 - 130	13.731	13.90914	-0.1781	+/-0.3	
JAX47-SB088-06-120106 (B610375-20)			Lab File ID: 9LVA009-0		Analyzed: 12/27/06 13:55			
2,4,5,6-TCMX	0.0365	62	70 - 125	6.634	6.848286	-0.2143	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0365	61	70 - 125	6.37	6.564286	-0.1943	+/-0.3	*
DBC	0.0365	56	55 - 130	13.902	14.10214	-0.2001	+/-0.3	
DBC [2C]	0.0365	56	55 - 130	13.732	13.90914	-0.1771	+/-0.3	
JAX47-SB087-05-120106 (B610375-18)			Lab File ID: 9LVA010-0		Analyzed: 12/27/06 14:21			
2,4,5,6-TCMX	0.0438	124	70 - 125	6.635	6.848286	-0.2133	+/-0.3	
2,4,5,6-TCMX [2C]	0.0438	118	70 - 125	6.37	6.564286	-0.1943	+/-0.3	
DBC	0.0438	93	55 - 130	13.902	14.10214	-0.2001	+/-0.3	
DBC [2C]	0.0438	90	55 - 130	13.732	13.90914	-0.1771	+/-0.3	
JAX47-SB087-01-120106 (B610375-17)			Lab File ID: 9LVA011-0		Analyzed: 12/27/06 14:47			
2,4,5,6-TCMX	0.0470	64	70 - 125	6.635	6.848286	-0.2133	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0470	59	70 - 125	6.371	6.564286	-0.1933	+/-0.3	*
DBC	0.0470	74	55 - 130	13.903	14.10214	-0.1991	+/-0.3	
DBC [2C]	0.0470	61	55 - 130	13.733	13.90914	-0.1761	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L14027-BLK1)			Lab File ID: 9LOA006-0		Analyzed: 12/20/06 13:22			
2,4,5,6-TCMX	0.0333	84	70 - 125	6.757	6.848286	-0.0913	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	81	70 - 125	6.48	6.564286	-0.0843	+/-0.3	
DBC	0.0333	88	55 - 130	14.017	14.10214	-0.0851	+/-0.3	
DBC [2C]	0.0333	86	55 - 130	13.832	13.90914	-0.0771	+/-0.3	
JAX47-SB079-06-120106 (B610375-08RE1)			Lab File ID: 9LOA008-0		Analyzed: 12/20/06 14:13			
2,4,5,6-TCMX	0.0378	77	70 - 125	6.754	6.848286	-0.0943	+/-0.3	
2,4,5,6-TCMX [2C]	0.0378	75	70 - 125	6.48	6.564286	-0.0843	+/-0.3	
DBC	0.0378	79	55 - 130	14.015	14.10214	-0.0871	+/-0.3	
DBC [2C]	0.0378	77	55 - 130	13.832	13.90914	-0.0771	+/-0.3	
JAX47-SB082-02-120106 (B610375-13RE1)			Lab File ID: 9LOA010-0		Analyzed: 12/20/06 15:05			
2,4,5,6-TCMX	0.0364	87	70 - 125	6.753	6.848286	-0.0953	+/-0.3	
2,4,5,6-TCMX [2C]	0.0364	84	70 - 125	6.48	6.564286	-0.0843	+/-0.3	
DBC	0.0364	88	55 - 130	14.015	14.10214	-0.0871	+/-0.3	
DBC [2C]	0.0364	85	55 - 130	13.831	13.90914	-0.0781	+/-0.3	
JAX47-SB110-01-113006 (B610375-01RE1)			Lab File ID: 9LOA014-0		Analyzed: 12/20/06 16:48			
2,4,5,6-TCMX	0.0343	84	70 - 125	6.754	6.848286	-0.0943	+/-0.3	
2,4,5,6-TCMX [2C]	0.0343	80	70 - 125	6.481	6.564286	-0.0833	+/-0.3	
DBC	0.0343	150	55 - 130	14.017	14.10214	-0.0851	+/-0.3	*
DBC [2C]	0.0343	87	55 - 130	13.833	13.90914	-0.0761	+/-0.3	
JAX47-SB082-02-120106 (B610375-13RE2)			Lab File ID: 9LQA014-0		Analyzed: 12/22/06 17:42			
2,4,5,6-TCMX	0.0364	80	70 - 125	6.716	6.848286	-0.1323	+/-0.3	
2,4,5,6-TCMX [2C]	0.0364	81	70 - 125	6.446	6.564286	-0.1183	+/-0.3	
DBC	0.0364	81	55 - 130	13.981	14.10214	-0.1211	+/-0.3	
DBC [2C]	0.0364	82	55 - 130	13.802	13.90914	-0.1071	+/-0.3	
JAX47-SB110-01-113006 (B610375-01RE2)			Lab File ID: 9LQA015-0		Analyzed: 12/22/06 18:08			
2,4,5,6-TCMX	0.0343	77	70 - 125	6.716	6.848286	-0.1323	+/-0.3	
2,4,5,6-TCMX [2C]	0.0343	79	70 - 125	6.447	6.564286	-0.1173	+/-0.3	
DBC	0.0343	138	55 - 130	13.981	14.10214	-0.1211	+/-0.3	*
DBC [2C]	0.0343	85	55 - 150	13.801	13.90914	-0.1081	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00124	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB079-01-120106 (B610375-07)			Lab File ID: 9LEA025-0		Analyzed: 12/12/06 01:22			
2,4,5,6-TCMX	0.0352	66	70 - 125	6.858	6.848286	0.0097	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0352	67	70 - 125	6.574	6.564286	0.0097	+/-0.3	*
DBC	0.0352	64	55 - 130	14.115	14.10214	0.0129	+/-0.3	
DBC [2C]	0.0352	62	55 - 130	13.921	13.90914	0.0119	+/-0.3	
JAX47-SB080-01-120106 (B610375-09)			Lab File ID: 9LEA027-0		Analyzed: 12/12/06 02:13			
2,4,5,6-TCMX	0.0345	62	70 - 125	6.858	6.848286	0.0097	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0345	64	70 - 125	6.574	6.564286	0.0097	+/-0.3	*
DBC	0.0345	70	55 - 130	14.116	14.10214	0.0139	+/-0.3	
DBC [2C]	0.0345	68	55 - 130	13.921	13.90914	0.0119	+/-0.3	
JAX47-SB080-05-120106 (B610375-10)			Lab File ID: 9LEA028-0		Analyzed: 12/12/06 02:39			
2,4,5,6-TCMX	0.0368	54	70 - 125	6.858	6.848286	0.0097	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0368	57	70 - 125	6.573	6.564286	0.0087	+/-0.3	*
DBC	0.0368	62	55 - 130	14.116	14.10214	0.0139	+/-0.3	
DBC [2C]	0.0368	61	55 - 130	13.922	13.90914	0.0129	+/-0.3	
JAX47-SB081-02-120106 (B610375-11)			Lab File ID: 9LEA029-0		Analyzed: 12/12/06 03:05			
2,4,5,6-TCMX	0.0469	60	70 - 125	6.858	6.848286	0.0097	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0469	64	70 - 125	6.574	6.564286	0.0097	+/-0.3	*
DBC	0.0469	70	55 - 130	14.116	14.10214	0.0139	+/-0.3	
DBC [2C]	0.0469	68	55 - 130	13.921	13.90914	0.0119	+/-0.3	
JAX47-SB081-05-120106 (B610375-12)			Lab File ID: 9LEA030-0		Analyzed: 12/12/06 03:31			
2,4,5,6-TCMX	0.0414	58	70 - 125	6.856	6.848286	0.0077	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0414	60	70 - 125	6.573	6.564286	0.0087	+/-0.3	*
DBC	0.0414	75	55 - 130	14.115	14.10214	0.0129	+/-0.3	
DBC [2C]	0.0414	72	55 - 130	13.92	13.90914	0.0109	+/-0.3	
JAX47-SB082-05-120106 (B610375-14)			Lab File ID: 9LEA032-0		Analyzed: 12/12/06 04:23			
2,4,5,6-TCMX	0.0453	55	70 - 125	6.856	6.848286	0.0077	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0453	56	70 - 125	6.572	6.564286	0.0077	+/-0.3	*
DBC	0.0453	65	55 - 130	14.113	14.10214	0.0109	+/-0.3	
DBC [2C]	0.0453	63	55 - 130	13.918	13.90914	0.0089	+/-0.3	
JAX47-SB083-01-120106 (B610375-15)			Lab File ID: 9LEA033-0		Analyzed: 12/12/06 04:49			
2,4,5,6-TCMX	0.0355	73	70 - 125	6.855	6.848286	0.0067	+/-0.3	
2,4,5,6-TCMX [2C]	0.0355	73	70 - 125	6.571	6.564286	0.0067	+/-0.3	
DBC	0.0355	96	55 - 130	14.114	14.10214	0.0119	+/-0.3	
DBC [2C]	0.0355	92	55 - 130	13.921	13.90914	0.0119	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00124	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB083-05-120106 (B610375-16)			Lab File ID: 9LEA034-0		Analyzed: 12/12/06 05:15			
2,4,5,6-TCMX	0.0354	80	70 - 125	6.855	6.848286	0.0067	+/-0.3	
2,4,5,6-TCMX [2C]	0.0354	82	70 - 125	6.571	6.564286	0.0067	+/-0.3	
DBC	0.0354	88	55 - 130	14.112	14.10214	0.0099	+/-0.3	
DBC [2C]	0.0354	85	55 - 130	13.918	13.90914	0.0089	+/-0.3	
JAX47-SB079-01-120106 (B610375-07RE1)			Lab File ID: 9AJA014-0		Analyzed: 01/15/07 21:56			
2,4,5,6-TCMX	0.0352	81	70 - 125	6.458	6.848286	-0.3903	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0352	76	70 - 125	6.202	6.564286	-0.3623	+/-0.3	*
DBC	0.0352	72	55 - 130	13.738	14.10214	-0.3641	+/-0.3	*
DBC [2C]	0.0352	74	55 - 130	13.576	13.90914	-0.3331	+/-0.3	*
JAX47-SB080-01-120106 (B610375-09RE1)			Lab File ID: 9AJA015-0		Analyzed: 01/15/07 22:22			
2,4,5,6-TCMX	0.0345	76	70 - 125	6.459	6.848286	-0.3893	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0345	74	70 - 125	6.203	6.564286	-0.3613	+/-0.3	*
DBC	0.0345	80	55 - 130	13.74	14.10214	-0.3621	+/-0.3	*
DBC [2C]	0.0345	79	55 - 130	13.577	13.90914	-0.3321	+/-0.3	*
JAX47-SB080-05-120106 (B610375-10RE1)			Lab File ID: 9AJA016-0		Analyzed: 01/15/07 22:48			
2,4,5,6-TCMX	0.0368	68	70 - 125	6.459	6.848286	-0.3893	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0368	66	70 - 125	6.203	6.564286	-0.3613	+/-0.3	*
DBC	0.0368	73	55 - 130	13.739	14.10214	-0.3631	+/-0.3	*
DBC [2C]	0.0368	72	55 - 130	13.576	13.90914	-0.3331	+/-0.3	*
JAX47-SB081-05-120106 (B610375-12RE1)			Lab File ID: 9AJA017-0		Analyzed: 01/15/07 23:14			
2,4,5,6-TCMX	0.0414	72	70 - 125	6.457	6.848286	-0.3913	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0414	69	70 - 125	6.201	6.564286	-0.3633	+/-0.3	*
DBC	0.0414	86	55 - 130	13.738	14.10214	-0.3641	+/-0.3	*
DBC [2C]	0.0414	85	55 - 130	13.575	13.90914	-0.3341	+/-0.3	*
JAX47-SB082-05-120106 (B610375-14RE1)			Lab File ID: 9AJA018-0		Analyzed: 01/15/07 23:40			
2,4,5,6-TCMX	0.0453	68	70 - 125	6.458	6.848286	-0.3903	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0453	66	70 - 125	6.201	6.564286	-0.3633	+/-0.3	*
DBC	0.0453	75	55 - 130	13.738	14.10214	-0.3641	+/-0.3	*
DBC [2C]	0.0453	75	55 - 130	13.575	13.90914	-0.3341	+/-0.3	*
JAX47-SB083-01-120106 (B610375-15RE3)			Lab File ID: 9AJA019-0		Analyzed: 01/16/07 00:06			
2,4,5,6-TCMX	0.0355	90	70 - 125	6.458	6.848286	-0.3903	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0355	84	70 - 125	6.201	6.564286	-0.3633	+/-0.3	*
DBC	0.0355	119	55 - 130	13.738	14.10214	-0.3641	+/-0.3	*
DBC [2C]	0.0355	104	55 - 130	13.574	13.90914	-0.3351	+/-0.3	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00124	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q	
JAX47-SB083-05-120106 (B610375-16RE1)			Lab File ID: 9AJA020-0		Analyzed: 01/16/07 00:31				
2,4,5,6-TCMX	0.0354	100	70 - 125	6.459	6.848286	-0.3893	+/-0.3	*	OK
2,4,5,6-TCMX [2C]	0.0354	97	70 - 125	6.202	6.564286	-0.3623	+/-0.3	*	|
DBC	0.0354	103	55 - 130	13.738	14.10214	-0.3641	+/-0.3	*	|
DBC [2C]	0.0354	102	55 - 130	13.575	13.90914	-0.3341	+/-0.3	*	|
JAX47-SB088-03-120106 (B610375-19RE1)			Lab File ID: 9AJA021-0		Analyzed: 01/16/07 00:57				
2,4,5,6-TCMX	0.0370	94	70 - 125	6.458	6.848286	-0.3903	+/-0.3	*	OK
2,4,5,6-TCMX [2C]	0.0370	91	70 - 125	6.201	6.564286	-0.3633	+/-0.3	*	|
DBC	0.0370	93	55 - 130	13.738	14.10214	-0.3641	+/-0.3	*	|
DBC [2C]	0.0370	91	55 - 130	13.575	13.90914	-0.3341	+/-0.3	*	|
JAX47-SB088-06-120106 (B610375-20RE1)			Lab File ID: 9AJA022-0		Analyzed: 01/16/07 01:23				
2,4,5,6-TCMX	0.0365	66	70 - 125	6.457	6.848286	-0.3913	+/-0.3	*	
2,4,5,6-TCMX [2C]	0.0365	64	70 - 125	6.201	6.564286	-0.3633	+/-0.3	*	
DBC	0.0365	60	55 - 130	13.739	14.10214	-0.3631	+/-0.3	*	
DBC [2C]	0.0365	61	55 - 130	13.576	13.90914	-0.3331	+/-0.3	*	
JAX47-SB087-05-120106 (B610375-18RE2)			Lab File ID: 9AJA024-0		Analyzed: 01/16/07 02:15				
2,4,5,6-TCMX	0.0438	134	70 - 125	6.459	6.848286	-0.3893	+/-0.3	*	
2,4,5,6-TCMX [2C]	0.0438	126	70 - 125	6.202	6.564286	-0.3623	+/-0.3	*	
DBC	0.0438	102	55 - 130	13.739	14.10214	-0.3631	+/-0.3	*	OK
DBC [2C]	0.0438	100	55 - 130	13.575	13.90914	-0.3341	+/-0.3	*	|

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08006 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L08006-BLK1	9LUB030-0	12/08/06 09:31	
Blank	6L08006-BLK1	9LUA030-0	12/08/06 09:31	
LCS	6L08006-BS1	9LUB031-0	12/08/06 09:31	
LCS	6L08006-BS1	9LUA031-0	12/08/06 09:31	
JAX47-SB110-01-113006	6L08006-MS1	9LUB032-0	12/08/06 09:31	
JAX47-SB110-01-113006	6L08006-MS1	9LUA032-0	12/08/06 09:31	
JAX47-SB110-01-113006	6L08006-MSD1	9LUA033-0	12/08/06 09:31	
JAX47-SB110-01-113006	6L08006-MSD1	9LUB033-0	12/08/06 09:31	
JAX47-SB110-05-113006	B610375-02	9LUB038-0	12/08/06 09:31	
JAX47-SB110-05-113006	B610375-02	9LUA038-0	12/08/06 09:31	
JAX47-SB110-05-113006	B610375-02RE1	9LPB014-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB110-05-113006	B610375-02RE1	9LPA014-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB110-05-113006	B610375-02RE2	9LPB019-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB110-05-113006	B610375-02RE2	9LPA019-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB110-05-113006	B610375-02RE3	9A3B019-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB110-05-113006	B610375-02RE3	9A3A019-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-DU02-120106	B610375-03	9LUA037-0	12/08/06 09:31	
JAX47-DU02-120106	B610375-03	9LUB037-0	12/08/06 09:31	
JAX47-DU02-120106	B610375-03RE1	9LPA017-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-DU02-120106	B610375-03RE1	9LPB017-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-DU03-120106	B610375-04	9LUB034-0	12/08/06 09:31	
JAX47-DU03-120106	B610375-04	9LUA034-0	12/08/06 09:31	
JAX47-SB078-01-120106	B610375-05	9LUA035-0	12/08/06 09:31	
JAX47-SB078-01-120106	B610375-05	9LUB035-0	12/08/06 09:31	
JAX47-SB078-06-120106	B610375-06	9LUA036-0	12/08/06 09:31	
JAX47-SB078-06-120106	B610375-06	9LUB036-0	12/08/06 09:31	
JAX47-SB079-01-120106	B610375-07	9LEA025-0	12/08/06 09:31	
JAX47-SB079-01-120106	B610375-07	9LEB025-0	12/08/06 09:31	
JAX47-SB079-01-120106	B610375-07RE1	9AJB014-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB079-01-120106	B610375-07RE1	9AJA014-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB080-01-120106	B610375-09	9LEA027-0	12/08/06 09:31	
JAX47-SB080-01-120106	B610375-09	9LEB027-0	12/08/06 09:31	
JAX47-SB080-01-120106	B610375-09RE1	9AJA015-0	12/08/06 09:31	Added 1/16/07 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08006 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB080-01-120106	B610375-09RE1	9AJB015-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB080-05-120106	B610375-10	9LEA028-0	12/08/06 09:31	
JAX47-SB080-05-120106	B610375-10	9LEB028-0	12/08/06 09:31	
JAX47-SB080-05-120106	B610375-10RE1	9AJA016-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB080-05-120106	B610375-10RE1	9AJB016-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB081-02-120106	B610375-11	9LEA029-0	12/08/06 09:31	
JAX47-SB081-02-120106	B610375-11	9LEB029-0	12/08/06 09:31	
JAX47-SB081-05-120106	B610375-12	9LEA030-0	12/08/06 09:31	
JAX47-SB081-05-120106	B610375-12	9LEB030-0	12/08/06 09:31	
JAX47-SB081-05-120106	B610375-12RE1	9AJB017-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB081-05-120106	B610375-12RE1	9AJA017-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB082-05-120106	B610375-14	9LEB032-0	12/08/06 09:31	
JAX47-SB082-05-120106	B610375-14	9LEA032-0	12/08/06 09:31	
JAX47-SB082-05-120106	B610375-14RE1	9AJB018-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB082-05-120106	B610375-14RE1	9AJA018-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB083-01-120106	B610375-15	9LEB033-0	12/08/06 09:31	
JAX47-SB083-01-120106	B610375-15	9LEA033-0	12/08/06 09:31	
JAX47-SB083-01-120106	B610375-15RE1	9LPB015-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB083-01-120106	B610375-15RE1	9LPA015-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB083-01-120106	B610375-15RE2	9LQB024-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB083-01-120106	B610375-15RE2	9LQA024-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB083-01-120106	B610375-15RE3	9AJB019-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB083-01-120106	B610375-15RE3	9AJA019-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB083-05-120106	B610375-16	9LEA034-0	12/08/06 09:31	
JAX47-SB083-05-120106	B610375-16	9LEB034-0	12/08/06 09:31	
JAX47-SB083-05-120106	B610375-16RE1	9AJA020-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB083-05-120106	B610375-16RE1	9AJB020-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB087-01-120106	B610375-17	9LVA011-0	12/08/06 09:31	
JAX47-SB087-01-120106	B610375-17	9LVB011-0	12/08/06 09:31	
JAX47-SB087-01-120106	B610375-17RE1	9LPA018-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB087-01-120106	B610375-17RE1	9LPB018-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB087-01-120106	B610375-17RE2	9LQA025-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB087-01-120106	B610375-17RE2	9LQB025-0	12/08/06 09:31	Added 12/23/06 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08006 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB087-05-120106	B610375-18	9LVA010-0	12/08/06 09:31	
JAX47-SB087-05-120106	B610375-18	9LVB010-0	12/08/06 09:31	
JAX47-SB087-05-120106	B610375-18RE1	9LPB016-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB087-05-120106	B610375-18RE1	9LPA016-0	12/08/06 09:31	Added 12/23/06 by JBH
JAX47-SB087-05-120106	B610375-18RE2	9AJA024-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB087-05-120106	B610375-18RE2	9AJB024-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB088-03-120106	B610375-19	9LVA008-0	12/08/06 09:31	
JAX47-SB088-03-120106	B610375-19	9LVB008-0	12/08/06 09:31	
JAX47-SB088-03-120106	B610375-19RE1	9AJA021-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB088-03-120106	B610375-19RE1	9AJB021-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB088-06-120106	B610375-20	9LVA009-0	12/08/06 09:31	
JAX47-SB088-06-120106	B610375-20	9LVB009-0	12/08/06 09:31	
JAX47-SB088-06-120106	B610375-20RE1	9AJA022-0	12/08/06 09:31	Added 1/16/07 by JBH
JAX47-SB088-06-120106	B610375-20RE1	9AJB022-0	12/08/06 09:31	Added 1/16/07 by JBH

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L14027 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L14027-BLK1	9LOB006-0	12/14/06 18:51	
Blank	6L14027-BLK1	9LOA006-0	12/14/06 18:51	
LCS	6L14027-BS1	9LOB005-0	12/14/06 18:51	
LCS	6L14027-BS1	9LOA005-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MS1	9LOB015-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MS1	9LOA015-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MSD1	9LOA016-0	12/14/06 18:51	
JAX47-SB110-01-113006	6L14027-MSD1	9LOB016-0	12/14/06 18:51	
JAX47-SB110-01-113006	B610375-01RE1	9LOB014-0	12/14/06 18:51	MS/MSD sample
JAX47-SB110-01-113006	B610375-01RE1	9LOA014-0	12/14/06 18:51	MS/MSD sample
JAX47-SB110-01-113006	B610375-01RE2	9LQB015-0	12/14/06 18:51	MS/MSD sample
JAX47-SB110-01-113006	B610375-01RE2	9LQA015-0	12/14/06 18:51	MS/MSD sample
JAX47-SB110-01-113006	B610375-01RE3	9LQA017-0	12/14/06 18:51	MS/MSD sample
JAX47-SB110-01-113006	B610375-01RE3	9LQB017-0	12/14/06 18:51	MS/MSD sample
JAX47-SB079-06-120106	B610375-08RE1	9LOB008-0	12/14/06 18:51	From 6L08006 by MJF on 14-Dec-06
JAX47-SB079-06-120106	B610375-08RE1	9LOA008-0	12/14/06 18:51	From 6L08006 by MJF on 14-Dec-06
JAX47-SB082-02-120106	B610375-13RE1	9LOB010-0	12/14/06 18:51	From 6L08006 by MJF on 14-Dec-06
JAX47-SB082-02-120106	B610375-13RE1	9LOA010-0	12/14/06 18:51	From 6L08006 by MJF on 14-Dec-06
JAX47-SB082-02-120106	B610375-13RE2	9LQB014-0	12/14/06 18:51	Added 12/22/06 by JBH
JAX47-SB082-02-120106	B610375-13RE2	9LQA014-0	12/14/06 18:51	Added 12/22/06 by JBH

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00089	Instrument:	JSVGCECD2
Calibration:	0612008		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A3A016-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	01/03/07
Lab Sample ID:	BA00093-CCV1	Injection Time:	17:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.092	7.280474E+07	6.7249E+07		-7.6	20
gamma-BHC	A	0.100	0.093	6.465721E+07	6.03306E+07		-6.7	20
beta-BHC	A	0.100	0.095	2.323065E+07	2.20717E+07		-5.0	20
delta-BHC	A	0.100	0.094	5.66961E+07	5.33513E+07		-5.9	20
Heptachlor	A	0.100	0.089	6.414063E+07	5.73325E+07		-10.6	20
Aldrin	A	0.100	0.091	6.149162E+07	5.61896E+07		-8.6	20
Heptachlor epoxide	A	0.100	0.090	5.405995E+07	4.83812E+07		-10.5	20
Chlordane-gamma	A	0.100	0.090	5.527518E+07	5.00221E+07		-9.5	20
Chlordane-alpha	A	0.100	0.089	5.296272E+07	4.73655E+07		-10.6	20
4,4'-DDE	A	0.100	0.090	5.244698E+07	4.7274E+07		-9.9	20
Endosulfan I	A	0.100	0.090	4.972951E+07	4.46979E+07		-10.1	20
Dieldrin	A	0.100	0.090	5.436507E+07	4.88682E+07		-10.1	20
Endrin	A	0.100	0.085	4.627937E+07	3.93677E+07		-14.9	20
4,4'-DDD	A	0.100	0.094	4.00135E+07	3.76948E+07		-5.8	20
Endosulfan II	A	0.100	0.090	4.442927E+07	4.00259E+07		-9.9	20
4,4'-DDT	A	0.100	0.090	4.164772E+07	3.75513E+07		-9.8	20
Endrin aldehyde	A	0.100	0.099	3.13612E+07	3.09533E+07		-1.3	20
Methoxychlor	A	0.100	0.084	2.117353E+07	1.77557E+07		-16.1	20
Endosulfan sulfate	A	0.100	0.092	3.673694E+07	3.3818E+07		-7.9	20
Endrin ketone	A	0.100	0.092	4.568736E+07	4.20442E+07		-8.0	20
alpha-BHC [2C]	A	0.100	0.091	7.552835E+07	6.88371E+07		-8.9	20
gamma-BHC [2C]	A	0.100	0.092	6.719113E+07	6.14983E+07		-8.5	20
beta-BHC [2C]	A	0.100	0.095	2.472905E+07	2.34709E+07		-5.1	20
delta-BHC [2C]	A	0.100	0.094	5.850208E+07	5.48701E+07		-6.2	20
Heptachlor [2C]	A	0.100	0.089	6.67268E+07	5.94832E+07		-10.9	20
Aldrin [2C]	A	0.100	0.090	6.357242E+07	5.75106E+07		-9.5	20
Heptachlor epoxide [2C]	A	0.100	0.089	5.626251E+07	5.01595E+07		-10.8	20
Chlordane-gamma [2C]	A	0.100	0.090	5.722595E+07	5.14027E+07		-10.2	20
Chlordane-alpha [2C]	A	0.100	0.088	5.472749E+07	4.8063E+07		-12.2	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A3B016-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	01/03/07
Lab Sample ID:	BA00093-CCV1	Injection Time:	17:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.090	5.341989E+07	4.82395E+07		-9.7	20
Endosulfan I [2C]	A	0.100	0.089	5.087841E+07	4.52538E+07		-11.1	20
Dieldrin [2C]	A	0.100	0.090	5.608619E+07	5.04635E+07		-10.0	20
Endrin [2C]	A	0.100	0.085	4.605028E+07	3.91537E+07		-15.0	20
4,4'-DDD [2C]	A	0.100	0.092	4.157866E+07	3.82859E+07		-7.9	20
Endosulfan II [2C]	A	0.100	0.090	4.58875E+07	4.11063E+07		-10.4	20
4,4'-DDT [2C]	A	0.100	0.088	4.184652E+07	3.66274E+07		-12.5	20
Endrin aldehyde [2C]	A	0.100	0.099	3.232817E+07	3.20399E+07		-0.9	20
Methoxychlor [2C]	A	0.100	0.083	2.018515E+07	1.66821E+07		-17.4	20
Endosulfan sulfate [2C]	A	0.100	0.090	3.836149E+07	3.44742E+07		-10.1	20
Endrin ketone [2C]	A	0.100	0.090	4.596086E+07	4.12581E+07		-10.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A3A020-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	01/03/07
Lab Sample ID:	BA00093-CCV2	Injection Time:	19:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.10	7.280474E+07	7.35674E+07		1.0	20
gamma-BHC	A	0.100	0.10	6.465721E+07	6.55212E+07		1.3	20
beta-BHC	A	0.100	0.10	2.323065E+07	2.40534E+07		3.5	20
delta-BHC	A	0.100	0.10	5.66961E+07	5.82442E+07		2.7	20
Heptachlor	A	0.100	0.096	6.414063E+07	6.12588E+07		-4.5	20
Aldrin	A	0.100	0.099	6.149162E+07	6.07591E+07		-1.2	20
Heptachlor epoxide	A	0.100	0.096	5.405995E+07	5.18346E+07		-4.1	20
Chlordane-gamma	A	0.100	0.098	5.527518E+07	5.41515E+07		-2.0	20
Chlordane-alpha	A	0.100	0.097	5.296272E+07	5.14266E+07		-2.9	20
4,4'-DDE	A	0.100	0.098	5.244698E+07	5.12415E+07		-2.3	20
Endosulfan I	A	0.100	0.097	4.972951E+07	4.81312E+07		-3.2	20
Dieldrin	A	0.100	0.096	5.436507E+07	5.22706E+07		-3.9	20
Endrin	A	0.100	0.092	4.627937E+07	4.2448E+07		-8.3	20
4,4'-DDD	A	0.100	0.10	4.00135E+07	3.9993E+07		-0.05	20
Endosulfan II	A	0.100	0.096	4.442927E+07	4.27428E+07		-3.8	20
4,4'-DDT	A	0.100	0.096	4.164772E+07	3.99152E+07		-4.2	20
Endrin aldehyde	A	0.100	0.11	3.13612E+07	3.3034E+07		5.3	20
Methoxychlor	A	0.100	0.088	2.117353E+07	1.86206E+07		-12.1	20
Endosulfan sulfate	A	0.100	0.097	3.673694E+07	3.5798E+07		-2.6	20
Endrin ketone	A	0.100	0.097	4.568736E+07	4.41423E+07		-3.4	20
alpha-BHC [2C]	A	0.100	0.10	7.552835E+07	7.56141E+07		0.1	20
gamma-BHC [2C]	A	0.100	0.10	6.719113E+07	6.68639E+07		-0.5	20
beta-BHC [2C]	A	0.100	0.10	2.472905E+07	2.56066E+07		3.5	20
delta-BHC [2C]	A	0.100	0.10	5.850208E+07	6.01346E+07		2.8	20
Heptachlor [2C]	A	0.100	0.096	6.67268E+07	6.3728E+07		-4.5	20
Aldrin [2C]	A	0.100	0.098	6.357242E+07	6.23896E+07		-1.9	20
Heptachlor epoxide [2C]	A	0.100	0.096	5.626251E+07	5.38848E+07		-4.2	20
Chlordane-gamma [2C]	A	0.100	0.098	5.722595E+07	5.60261E+07		-2.1	20
Chlordane-alpha [2C]	A	0.100	0.096	5.472749E+07	5.23784E+07		-4.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9A3B020-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	01/03/07
Lab Sample ID:	BA00093-CCV2	Injection Time:	19:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.098	5.341989E+07	5.22575E+07		-2.2	20
Endosulfan I [2C]	A	0.100	0.096	5.087841E+07	4.89331E+07		-3.8	20
Dieldrin [2C]	A	0.100	0.097	5.608619E+07	5.42425E+07		-3.3	20
Endrin [2C]	A	0.100	0.091	4.605028E+07	4.20993E+07		-8.6	20
4,4'-DDD [2C]	A	0.100	0.098	4.157866E+07	4.08557E+07		-1.7	20
Endosulfan II [2C]	A	0.100	0.096	4.58875E+07	4.40766E+07		-3.9	20
4,4'-DDT [2C]	A	0.100	0.094	4.184652E+07	3.93282E+07		-6.0	20
Endrin aldehyde [2C]	A	0.100	0.11	3.232817E+07	3.44065E+07		6.4	20
Methoxychlor [2C]	A	0.100	0.090	2.018515E+07	1.8115E+07		-10.3	20
Endosulfan sulfate [2C]	A	0.100	0.097	3.836149E+07	3.73377E+07		-2.7	20
Endrin ketone [2C]	A	0.100	0.096	4.596086E+07	4.4029E+07		-4.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/21/06
Lab Sample ID:	BA00093-CCV3	Injection Time:	18:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.10	7.280474E+07	7.24684E+07		-0.5	20
gamma-BHC	A	0.100	0.099	6.465721E+07	6.42954E+07		-0.6	20
beta-BHC	A	0.100	0.10	2.323065E+07	2.37442E+07		2.2	20
delta-BHC	A	0.100	0.10	5.66961E+07	5.75709E+07		1.5	20
Heptachlor	A	0.100	0.094	6.414063E+07	5.99803E+07		-6.5	20
Aldrin	A	0.100	0.096	6.149162E+07	5.89089E+07		-4.2	20
Heptachlor epoxide	A	0.100	0.093	5.405995E+07	5.05089E+07		-6.6	20
Chlordane-gamma	A	0.100	0.096	5.527518E+07	5.28737E+07		-4.3	20
Chlordane-alpha	A	0.100	0.095	5.296272E+07	5.01592E+07		-5.3	20
4,4'-DDE	A	0.100	0.095	5.244698E+07	4.99731E+07		-4.7	20
Endosulfan I	A	0.100	0.094	4.972951E+07	4.69184E+07		-5.7	20
Dieldrin	A	0.100	0.094	5.436507E+07	5.13247E+07		-5.6	20
Endrin	A	0.100	0.096	4.627937E+07	4.43146E+07		-4.2	20
4,4'-DDD	A	0.100	0.099	4.00135E+07	3.95028E+07		-1.3	20
Endosulfan II	A	0.100	0.094	4.442927E+07	4.17368E+07		-6.1	20
4,4'-DDT	A	0.100	0.10	4.164772E+07	4.27844E+07		2.7	20
Endrin aldehyde	A	0.100	0.099	3.13612E+07	3.10814E+07		-0.9	20
Methoxychlor	A	0.100	0.086	2.117353E+07	1.81971E+07		-14.1	20
Endosulfan sulfate	A	0.100	0.098	3.673694E+07	3.58147E+07		-2.5	20
Endrin ketone	A	0.100	0.092	4.568736E+07	4.21933E+07		-7.6	20
alpha-BHC [2C]	A	0.100	0.10	7.552835E+07	7.53869E+07		-0.2	20
gamma-BHC [2C]	A	0.100	0.10	6.719113E+07	6.69074E+07		-0.4	20
beta-BHC [2C]	A	0.100	0.10	2.472905E+07	2.57474E+07		4.1	20
delta-BHC [2C]	A	0.100	0.10	5.850208E+07	6.13507E+07		4.9	20
Heptachlor [2C]	A	0.100	0.096	6.67268E+07	6.41832E+07		-3.8	20
Aldrin [2C]	A	0.100	0.097	6.357242E+07	6.19385E+07		-2.6	20
Heptachlor epoxide [2C]	A	0.100	0.095	5.626251E+07	5.33746E+07		-5.1	20
Chlordane-gamma [2C]	A	0.100	0.098	5.722595E+07	5.60462E+07		-2.1	20
Chlordane-alpha [2C]	A	0.100	0.096	5.472749E+07	5.24934E+07		-4.1	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/21/06
Lab Sample ID:	BA00093-CCV3	Injection Time:	18:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.098	5.341989E+07	5.24277E+07		-1.9	20
Endosulfan I [2C]	A	0.100	0.096	5.087841E+07	4.85877E+07		-4.5	20
Dieldrin [2C]	A	0.100	0.096	5.608619E+07	5.38447E+07		-4.0	20
Endrin [2C]	A	0.100	0.098	4.605028E+07	4.49322E+07		-2.4	20
4,4'-DDD [2C]	A	0.100	0.10	4.157866E+07	4.17543E+07		0.4	20
Endosulfan II [2C]	A	0.100	0.096	4.58875E+07	4.41121E+07		-3.9	20
4,4'-DDT [2C]	A	0.100	0.10	4.184652E+07	4.37775E+07		4.6	20
Endrin aldehyde [2C]	A	0.100	0.10	3.232817E+07	3.26986E+07		1.1	20
Methoxychlor [2C]	A	0.100	0.088	2.018515E+07	1.77936E+07		-11.8	20
Endosulfan sulfate [2C]	A	0.100	0.10	3.836149E+07	3.82808E+07		-0.2	20
Endrin ketone [2C]	A	0.100	0.094	4.596086E+07	4.30459E+07		-6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPA020-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/21/06
Lab Sample ID:	BA00093-CCV4	Injection Time:	21:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.10	7.280474E+07	7.46182E+07		2.5	20	
gamma-BHC	A	0.100	0.10	6.465721E+07	6.60988E+07		2.2	20	
beta-BHC	A	0.100	0.11	2.323065E+07	2.48177E+07		6.8	20	
delta-BHC	A	0.100	0.11	5.66961E+07	6.12707E+07		8.1	20	
Heptachlor	A	0.100	0.096	6.414063E+07	6.16241E+07		-3.9	20	
Aldrin	A	0.100	0.098	6.149162E+07	6.05693E+07		-1.5	20	
Heptachlor epoxide	A	0.100	0.095	5.405995E+07	5.15875E+07		-4.6	20	
Chlordane-gamma	A	0.100	0.099	5.527518E+07	5.48589E+07		-0.8	20	
Chlordane-alpha	A	0.100	0.099	5.296272E+07	5.22447E+07		-1.4	20	
4,4'-DDE	A	0.100	0.099	5.244698E+07	5.19085E+07		-1.0	20	
Endosulfan I	A	0.100	0.096	4.972951E+07	4.78293E+07		-3.8	20	
Dieldrin	A	0.100	0.097	5.436507E+07	5.25683E+07		-3.3	20	
Endrin	A	0.100	0.099	4.627937E+07	4.57843E+07		-1.1	20	
4,4'-DDD	A	0.100	0.14	4.00135E+07	5.67102E+07		41.7	20	*
Endosulfan II	A	0.100	0.096	4.442927E+07	4.26627E+07		-4.0	20	
4,4'-DDT	A	0.100	0.14	4.164772E+07	5.97637E+07		43.5	20	*
Endrin aldehyde	A	0.100	0.10	3.13612E+07	3.13051E+07		-0.2	20	
Methoxychlor	A	0.100	0.089	2.117353E+07	1.8809E+07		-11.2	20	
Endosulfan sulfate	A	0.100	0.10	3.673694E+07	3.6661E+07		-0.2	20	
Endrin ketone	A	0.100	0.095	4.568736E+07	4.32773E+07		-5.3	20	
alpha-BHC [2C]	A	0.100	0.10	7.552835E+07	7.79697E+07		3.2	20	
gamma-BHC [2C]	A	0.100	0.10	6.719113E+07	6.94108E+07		3.3	20	
beta-BHC [2C]	A	0.100	0.11	2.472905E+07	2.71277E+07		9.7	20	
delta-BHC [2C]	A	0.100	0.11	5.850208E+07	6.43224E+07		9.9	20	
Heptachlor [2C]	A	0.100	0.10	6.67268E+07	6.67822E+07		0.08	20	
Aldrin [2C]	A	0.100	0.10	6.357242E+07	6.41116E+07		0.8	20	
Heptachlor epoxide [2C]	A	0.100	0.097	5.626251E+07	5.47358E+07		-2.7	20	
Chlordane-gamma [2C]	A	0.100	0.10	5.722595E+07	5.79446E+07		1.3	20	
Chlordane-alpha [2C]	A	0.100	0.098	5.472749E+07	5.38117E+07		-1.7	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LPB020-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/21/06
Lab Sample ID:	BA00093-CCV4	Injection Time:	21:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.10	5.341989E+07	5.48477E+07		2.7	20	
Endosulfan I [2C]	A	0.100	0.098	5.087841E+07	4.97607E+07		-2.2	20	
Dieldrin [2C]	A	0.100	0.099	5.608619E+07	5.54295E+07		-1.2	20	
Endrin [2C]	A	0.100	0.10	4.605028E+07	4.67807E+07		1.6	20	
4,4'-DDD [2C]	A	0.100	0.15	4.157866E+07	6.06212E+07		45.8	20	*
Endosulfan II [2C]	A	0.100	0.098	4.58875E+07	4.52208E+07		-1.5	20	
4,4'-DDT [2C]	A	0.100	0.15	4.184652E+07	6.13185E+07		46.5	20	*
Endrin aldehyde [2C]	A	0.100	0.10	3.232817E+07	3.31729E+07		2.6	20	
Methoxychlor [2C]	A	0.100	0.092	2.018515E+07	1.85325E+07		-8.2	20	
Endosulfan sulfate [2C]	A	0.100	0.10	3.836149E+07	3.94986E+07		3.0	20	
Endrin ketone [2C]	A	0.100	0.096	4.596086E+07	4.43751E+07		-3.5	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA022-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/22/06
Lab Sample ID:	BA00093-CCV5	Injection Time:	21:42

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.099	7.280474E+07	7.18688E+07		-1.3	20
gamma-BHC	A	0.100	0.10	6.465721E+07	6.47514E+07		0.1	20
beta-BHC	A	0.100	0.10	2.323065E+07	2.39803E+07		3.2	20
delta-BHC	A	0.100	0.10	5.66961E+07	5.90667E+07		4.2	20
Heptachlor	A	0.100	0.096	6.414063E+07	6.1325E+07		-4.4	20
Aldrin	A	0.100	0.097	6.149162E+07	5.97002E+07		-2.9	20
Heptachlor epoxide	A	0.100	0.096	5.405995E+07	5.17169E+07		-4.3	20
Chlordane-gamma	A	0.100	0.097	5.527518E+07	5.37043E+07		-2.8	20
Chlordane-alpha	A	0.100	0.096	5.296272E+07	5.109E+07		-3.5	20
4,4'-DDE	A	0.100	0.094	5.244698E+07	4.90971E+07		-6.4	20
Endosulfan I	A	0.100	0.096	4.972951E+07	4.7527E+07		-4.4	20
Dieldrin	A	0.100	0.096	5.436507E+07	5.23555E+07		-3.7	20
Endrin	A	0.100	0.099	4.627937E+07	4.57202E+07		-1.2	20
4,4'-DDD	A	0.100	0.099	4.00135E+07	3.96907E+07		-0.8	20
Endosulfan II	A	0.100	0.094	4.442927E+07	4.18425E+07		-5.8	20
4,4'-DDT	A	0.100	0.098	4.164772E+07	4.07745E+07		-2.1	20
Endrin aldehyde	A	0.100	0.10	3.13612E+07	3.16897E+07		1.0	20
Methoxychlor	A	0.100	0.089	2.117353E+07	1.88768E+07		-10.8	20
Endosulfan sulfate	A	0.100	0.10	3.673694E+07	3.70268E+07		0.8	20
Endrin ketone	A	0.100	0.093	4.568736E+07	4.25028E+07		-7.0	20
alpha-BHC [2C]	A	0.100	0.10	7.552835E+07	7.5578E+07		0.07	20
gamma-BHC [2C]	A	0.100	0.10	6.719113E+07	6.74446E+07		0.4	20
beta-BHC [2C]	A	0.100	0.11	2.472905E+07	2.60255E+07		5.2	20
delta-BHC [2C]	A	0.100	0.10	5.850208E+07	6.13991E+07		5.0	20
Heptachlor [2C]	A	0.100	0.097	6.67268E+07	6.49199E+07		-2.7	20
Aldrin [2C]	A	0.100	0.098	6.357242E+07	6.21799E+07		-2.2	20
Heptachlor epoxide [2C]	A	0.100	0.096	5.626251E+07	5.407E+07		-3.9	20
Chlordane-gamma [2C]	A	0.100	0.097	5.722595E+07	5.52932E+07		-3.4	20
Chlordane-alpha [2C]	A	0.100	0.088	5.472749E+07	4.81426E+07		-12.0	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB022-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/22/06
Lab Sample ID:	BA00093-CCV5	Injection Time:	21:42

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.095	5.341989E+07	5.07896E+07		-4.9	20
Endosulfan I [2C]	A	0.100	0.092	5.087841E+07	4.67378E+07		-8.1	20
Dieldrin [2C]	A	0.100	0.096	5.608619E+07	5.38343E+07		-4.0	20
Endrin [2C]	A	0.100	0.093	4.605028E+07	4.27384E+07		-7.2	20
4,4'-DDD [2C]	A	0.100	0.095	4.157866E+07	3.93603E+07		-5.3	20
Endosulfan II [2C]	A	0.100	0.094	4.58875E+07	4.33316E+07		-5.6	20
4,4'-DDT [2C]	A	0.100	0.098	4.184652E+07	4.11368E+07		-1.7	20
Endrin aldehyde [2C]	A	0.100	0.096	3.232817E+07	3.11759E+07		-3.6	20
Methoxychlor [2C]	A	0.100	0.093	2.018515E+07	1.87966E+07		-6.9	20
Endosulfan sulfate [2C]	A	0.100	0.10	3.836149E+07	3.90276E+07		1.7	20
Endrin ketone [2C]	A	0.100	0.098	4.596086E+07	4.52219E+07		-1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA026-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/22/06
Lab Sample ID:	BA00093-CCV6	Injection Time:	23:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	7.280474E+07	7.67958E+07		5.5	20
gamma-BHC	A	0.100	0.11	6.465721E+07	6.90609E+07		6.8	20
beta-BHC	A	0.100	0.11	2.323065E+07	2.54632E+07		9.6	20
delta-BHC	A	0.100	0.11	5.66961E+07	6.32786E+07		11.6	20
Heptachlor	A	0.100	0.10	6.414063E+07	6.44855E+07		0.5	20
Aldrin	A	0.100	0.10	6.149162E+07	6.3233E+07		2.8	20
Heptachlor epoxide	A	0.100	0.10	5.405995E+07	5.43376E+07		0.5	20
Chlordane-gamma	A	0.100	0.10	5.527518E+07	5.71165E+07		3.3	20
Chlordane-alpha	A	0.100	0.10	5.296272E+07	5.4416E+07		2.7	20
4,4'-DDE	A	0.100	0.10	5.244698E+07	5.28025E+07		0.7	20
Endosulfan I	A	0.100	0.10	4.972951E+07	5.0915E+07		2.4	20
Dieldrin	A	0.100	0.10	5.436507E+07	5.53088E+07		1.7	20
Endrin	A	0.100	0.10	4.627937E+07	4.84875E+07		4.8	20
4,4'-DDD	A	0.100	0.10	4.00135E+07	4.15819E+07		3.9	20
Endosulfan II	A	0.100	0.10	4.442927E+07	4.49534E+07		1.2	20
4,4'-DDT	A	0.100	0.10	4.164772E+07	4.32803E+07		3.9	20
Endrin aldehyde	A	0.100	0.11	3.13612E+07	3.29457E+07		5.1	20
Methoxychlor	A	0.100	0.094	2.117353E+07	1.98122E+07		-6.4	20
Endosulfan sulfate	A	0.100	0.11	3.673694E+07	3.88997E+07		5.9	20
Endrin ketone	A	0.100	0.10	4.568736E+07	4.56692E+07		-0.04	20
alpha-BHC [2C]	A	0.100	0.11	7.552835E+07	8.13535E+07		7.7	20
gamma-BHC [2C]	A	0.100	0.11	6.719113E+07	7.26704E+07		8.2	20
beta-BHC [2C]	A	0.100	0.11	2.472905E+07	2.80881E+07		13.6	20
delta-BHC [2C]	A	0.100	0.11	5.850208E+07	6.66037E+07		13.8	20
Heptachlor [2C]	A	0.100	0.11	6.67268E+07	7.01625E+07		5.1	20
Aldrin [2C]	A	0.100	0.11	6.357242E+07	6.69046E+07		5.2	20
Heptachlor epoxide [2C]	A	0.100	0.10	5.626251E+07	5.79141E+07		2.9	20
Chlordane-gamma [2C]	A	0.100	0.11	5.722595E+07	6.07803E+07		6.2	20
Chlordane-alpha [2C]	A	0.100	0.10	5.472749E+07	5.57756E+07		1.9	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB026-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/22/06
Lab Sample ID:	BA00093-CCV6	Injection Time:	23:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.11	5.341989E+07	5.62286E+07		5.3	20
Endosulfan I [2C]	A	0.100	0.10	5.087841E+07	5.22964E+07		2.8	20
Dieldrin [2C]	A	0.100	0.10	5.608619E+07	5.86427E+07		4.6	20
Endrin [2C]	A	0.100	0.10	4.605028E+07	4.8275E+07		4.8	20
4,4'-DDD [2C]	A	0.100	0.10	4.157866E+07	4.35055E+07		4.6	20
Endosulfan II [2C]	A	0.100	0.10	4.58875E+07	4.74506E+07		3.4	20
4,4'-DDT [2C]	A	0.100	0.11	4.184652E+07	4.48529E+07		7.2	20
Endrin aldehyde [2C]	A	0.100	0.11	3.232817E+07	3.46697E+07		7.2	20
Methoxychlor [2C]	A	0.100	0.098	2.018515E+07	1.98413E+07		-1.7	20
Endosulfan sulfate [2C]	A	0.100	0.11	3.836149E+07	4.1886E+07		9.2	20
Endrin ketone [2C]	A	0.100	0.10	4.596086E+07	4.79265E+07		4.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LUA029-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/27/06
Lab Sample ID:	BA00093-CCV7	Injection Time:	00:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.10	7.280474E+07	7.32477E+07		0.6	20
gamma-BHC	A	0.100	0.10	6.465721E+07	6.51902E+07		0.8	20
beta-BHC	A	0.100	0.10	2.323065E+07	2.4233E+07		4.3	20
delta-BHC	A	0.100	0.11	5.66961E+07	5.98041E+07		5.5	20
Heptachlor	A	0.100	0.096	6.414063E+07	6.13235E+07		-4.4	20
Aldrin	A	0.100	0.097	6.149162E+07	5.98098E+07		-2.7	20
Heptachlor epoxide	A	0.100	0.094	5.405995E+07	5.09756E+07		-5.7	20
Chlordane-gamma	A	0.100	0.097	5.527518E+07	5.36212E+07		-3.0	20
Chlordane-alpha	A	0.100	0.096	5.296272E+07	5.09367E+07		-3.8	20
4,4'-DDE	A	0.100	0.094	5.244698E+07	4.95661E+07		-5.5	20
Endosulfan I	A	0.100	0.096	4.972951E+07	4.78404E+07		-3.8	20
Dieldrin	A	0.100	0.095	5.436507E+07	5.14511E+07		-5.4	20
Endrin	A	0.100	0.095	4.627937E+07	4.39779E+07		-5.0	20
4,4'-DDD	A	0.100	0.098	4.00135E+07	3.90724E+07		-2.4	20
Endosulfan II	A	0.100	0.095	4.442927E+07	4.21994E+07		-5.0	20
4,4'-DDT	A	0.100	0.095	4.164772E+07	3.94994E+07		-5.2	20
Endrin aldehyde	A	0.100	0.10	3.13612E+07	3.18251E+07		1.5	20
Methoxychlor	A	0.100	0.086	2.117353E+07	1.82908E+07		-13.6	20
Endosulfan sulfate	A	0.100	0.10	3.673694E+07	3.67082E+07		-0.08	20
Endrin ketone	A	0.100	0.096	4.568736E+07	4.38752E+07		-4.0	20
alpha-BHC [2C]	A	0.100	0.10	7.552835E+07	7.52457E+07		-0.4	20
gamma-BHC [2C]	A	0.100	0.10	6.719113E+07	6.68526E+07		-0.5	20
beta-BHC [2C]	A	0.100	0.10	2.472905E+07	2.57327E+07		4.1	20
delta-BHC [2C]	A	0.100	0.11	5.850208E+07	6.17454E+07		5.5	20
Heptachlor [2C]	A	0.100	0.097	6.67268E+07	6.4811E+07		-2.9	20
Aldrin [2C]	A	0.100	0.097	6.357242E+07	6.17693E+07		-2.8	20
Heptachlor epoxide [2C]	A	0.100	0.095	5.626251E+07	5.32778E+07		-5.3	20
Chlordane-gamma [2C]	A	0.100	0.097	5.722595E+07	5.5738E+07		-2.6	20
Chlordane-alpha [2C]	A	0.100	0.095	5.472749E+07	5.21637E+07		-4.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LUB029-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/27/06
Lab Sample ID:	BA00093-CCV7	Injection Time:	00:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.097	5.341989E+07	5.18262E+07		-3.0	20
Endosulfan I [2C]	A	0.100	0.095	5.087841E+07	4.84279E+07		-4.8	20
Dieldrin [2C]	A	0.100	0.096	5.608619E+07	5.37916E+07		-4.1	20
Endrin [2C]	A	0.100	0.095	4.605028E+07	4.39444E+07		-4.6	20
4,4'-DDD [2C]	A	0.100	0.097	4.157866E+07	4.0438E+07		-2.7	20
Endosulfan II [2C]	A	0.100	0.096	4.58875E+07	4.39114E+07		-4.3	20
4,4'-DDT [2C]	A	0.100	0.095	4.184652E+07	3.96482E+07		-5.3	20
Endrin aldehyde [2C]	A	0.100	0.10	3.232817E+07	3.34608E+07		3.5	20
Methoxychlor [2C]	A	0.100	0.088	2.018515E+07	1.77917E+07		-11.9	20
Endosulfan sulfate [2C]	A	0.100	0.10	3.836149E+07	3.88127E+07		1.2	20
Endrin ketone [2C]	A	0.100	0.096	4.596086E+07	4.42523E+07		-3.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LUA040-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/27/06
Lab Sample ID:	BA00093-CCV8	Injection Time:	04:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.10	7.280474E+07	7.56249E+07		3.9	20
gamma-BHC	A	0.100	0.10	6.465721E+07	6.64695E+07		2.8	20
beta-BHC	A	0.100	0.11	2.323065E+07	2.47118E+07		6.4	20
delta-BHC	A	0.100	0.11	5.66961E+07	6.03156E+07		6.4	20
Heptachlor	A	0.100	0.095	6.414063E+07	6.08681E+07		-5.1	20
Aldrin	A	0.100	0.098	6.149162E+07	6.0092E+07		-2.3	20
Heptachlor epoxide	A	0.100	0.094	5.405995E+07	5.07055E+07		-6.2	20
Chlordane-gamma	A	0.100	0.096	5.527518E+07	5.28742E+07		-4.3	20
Chlordane-alpha	A	0.100	0.095	5.296272E+07	5.03857E+07		-4.9	20
4,4'-DDE	A	0.100	0.096	5.244698E+07	5.01546E+07		-4.4	20
Endosulfan I	A	0.100	0.094	4.972951E+07	4.69234E+07		-5.6	20
Dieldrin	A	0.100	0.094	5.436507E+07	5.11626E+07		-5.9	20
Endrin	A	0.100	0.10	4.627937E+07	4.62211E+07		-0.1	20
4,4'-DDD	A	0.100	0.11	4.00135E+07	4.364E+07		9.1	20
Endosulfan II	A	0.100	0.095	4.442927E+07	4.20753E+07		-5.3	20
4,4'-DDT	A	0.100	0.080	4.164772E+07	3.33721E+07		-19.9	20
Endrin aldehyde	A	0.100	0.095	3.13612E+07	2.98391E+07		-4.9	20
Methoxychlor	A	0.100	0.080	2.117353E+07	1.68748E+07		-20.3	20
Endosulfan sulfate	A	0.100	0.10	3.673694E+07	3.65396E+07		-0.5	20
Endrin ketone	A	0.100	0.094	4.568736E+07	4.31552E+07		-5.5	20
alpha-BHC [2C]	A	0.100	0.10	7.552835E+07	7.70052E+07		2.0	20
gamma-BHC [2C]	A	0.100	0.10	6.719113E+07	6.76332E+07		0.7	20
beta-BHC [2C]	A	0.100	0.11	2.472905E+07	2.62039E+07		6.0	20
delta-BHC [2C]	A	0.100	0.11	5.850208E+07	6.26697E+07		7.1	20
Heptachlor [2C]	A	0.100	0.096	6.67268E+07	6.4097E+07		-3.9	20
Aldrin [2C]	A	0.100	0.098	6.357242E+07	6.1974E+07		-2.5	20
Heptachlor epoxide [2C]	A	0.100	0.094	5.626251E+07	5.27485E+07		-6.2	20
Chlordane-gamma [2C]	A	0.100	0.096	5.722595E+07	5.47404E+07		-4.3	20
Chlordane-alpha [2C]	A	0.100	0.093	5.472749E+07	5.09667E+07		-6.9	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LUB040-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/27/06
Lab Sample ID:	BA00093-CCV8	Injection Time:	04:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.096	5.341989E+07	5.13278E+07		-3.9	20
Endosulfan I [2C]	A	0.100	0.093	5.087841E+07	4.75311E+07		-6.6	20
Dieldrin [2C]	A	0.100	0.094	5.608619E+07	5.28186E+07		-5.8	20
Endrin [2C]	A	0.100	0.10	4.605028E+07	4.58634E+07		-0.4	20
4,4'-DDD [2C]	A	0.100	0.11	4.157866E+07	4.42397E+07		6.4	20
Endosulfan II [2C]	A	0.100	0.095	4.58875E+07	4.35761E+07		-5.0	20
4,4'-DDT [2C]	A	0.100	0.080	4.184652E+07	3.33296E+07		-20.4	20
Endrin aldehyde [2C]	A	0.100	0.095	3.232817E+07	3.06922E+07		-5.1	20
Methoxychlor [2C]	A	0.100	0.083	2.018515E+07	1.67617E+07		-17.0	20
Endosulfan sulfate [2C]	A	0.100	0.098	3.836149E+07	3.74378E+07		-2.4	20
Endrin ketone [2C]	A	0.100	0.093	4.596086E+07	4.27373E+07		-7.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/27/06
Lab Sample ID:	BA00093-CCV9	Injection Time:	10:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.10	7.280474E+07	7.25924E+07		-0.3	20	
gamma-BHC	A	0.100	0.099	6.465721E+07	6.40398E+07		-1.0	20	
beta-BHC	A	0.100	0.10	2.323065E+07	2.39071E+07		2.9	20	
delta-BHC	A	0.100	0.10	5.66961E+07	5.82865E+07		2.8	20	
Heptachlor	A	0.100	0.091	6.414063E+07	5.86379E+07		-8.6	20	
Aldrin	A	0.100	0.095	6.149162E+07	5.8295E+07		-5.2	20	
Heptachlor epoxide	A	0.100	0.091	5.405995E+07	4.92063E+07		-9.0	20	
Chlordane-gamma	A	0.100	0.093	5.527518E+07	5.1484E+07		-6.9	20	
Chlordane-alpha	A	0.100	0.092	5.296272E+07	4.85115E+07		-8.4	20	
4,4'-DDE	A	0.100	0.092	5.244698E+07	4.83367E+07		-7.8	20	
Endosulfan I	A	0.100	0.092	4.972951E+07	4.55168E+07		-8.5	20	
Dieldrin	A	0.100	0.091	5.436507E+07	4.93325E+07		-9.3	20	
Endrin	A	0.100	0.094	4.627937E+07	4.36153E+07		-5.8	20	
4,4'-DDD	A	0.100	0.10	4.00135E+07	4.06726E+07		1.6	20	
Endosulfan II	A	0.100	0.091	4.442927E+07	4.05583E+07		-8.7	20	
4,4'-DDT	A	0.100	0.078	4.164772E+07	3.23503E+07		-22.3	20	*
Endrin aldehyde	A	0.100	0.090	3.13612E+07	2.83407E+07		-9.6	20	
Methoxychlor	A	0.100	0.076	2.117353E+07	1.60359E+07		-24.3	20	*
Endosulfan sulfate	A	0.100	0.093	3.673694E+07	3.41958E+07		-6.9	20	
Endrin ketone	A	0.100	0.090	4.568736E+07	4.1011E+07		-10.2	20	
alpha-BHC [2C]	A	0.100	0.098	7.552835E+07	7.39392E+07		-2.1	20	
gamma-BHC [2C]	A	0.100	0.097	6.719113E+07	6.53996E+07		-2.7	20	
beta-BHC [2C]	A	0.100	0.10	2.472905E+07	2.54112E+07		2.8	20	
delta-BHC [2C]	A	0.100	0.10	5.850208E+07	5.92388E+07		1.3	20	
Heptachlor [2C]	A	0.100	0.092	6.67268E+07	6.1281E+07		-8.2	20	
Aldrin [2C]	A	0.100	0.095	6.357242E+07	6.01756E+07		-5.3	20	
Heptachlor epoxide [2C]	A	0.100	0.091	5.626251E+07	5.12632E+07		-8.9	20	
Chlordane-gamma [2C]	A	0.100	0.094	5.722595E+07	5.38033E+07		-6.0	20	
Chlordane-alpha [2C]	A	0.100	0.091	5.472749E+07	5.00337E+07		-8.6	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/27/06
Lab Sample ID:	BA00093-CCV9	Injection Time:	10:46

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.093	5.341989E+07	4.98687E+07		-6.6	20	
Endosulfan I [2C]	A	0.100	0.091	5.087841E+07	4.63457E+07		-8.9	20	
Dieldrin [2C]	A	0.100	0.092	5.608619E+07	5.13501E+07		-8.4	20	
Endrin [2C]	A	0.100	0.094	4.605028E+07	4.3312E+07		-5.9	20	
4,4'-DDD [2C]	A	0.100	0.10	4.157866E+07	4.1829E+07		0.6	20	
Endosulfan II [2C]	A	0.100	0.092	4.58875E+07	4.20639E+07		-8.3	20	
4,4'-DDT [2C]	A	0.100	0.077	4.184652E+07	3.23426E+07		-22.7	20	*
Endrin aldehyde [2C]	A	0.100	0.091	3.232817E+07	2.93511E+07		-9.2	20	
Methoxychlor [2C]	A	0.100	0.076	2.018515E+07	1.53025E+07		-24.2	20	*
Endosulfan sulfate [2C]	A	0.100	0.093	3.836149E+07	3.55966E+07		-7.2	20	
Endrin ketone [2C]	A	0.100	0.089	4.596086E+07	4.08726E+07		-11.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/27/06
Lab Sample ID:	BA00093-CCVA	Injection Time:	15:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.096	7.280474E+07	6.96738E+07		-4.3	20
gamma-BHC	A	0.100.	0.094	6.465721E+07	6.06855E+07		-6.1	20
beta-BHC	A	0.100	0.096	2.323065E+07	2.22573E+07		-4.2	20
delta-BHC	A	0.100	0.097	5.66961E+07	5.5136E+07		-2.8	20
Heptachlor	A	0.100	0.088	6.414063E+07	5.62688E+07		-12.3	20
Aldrin	A	0.100	0.089	6.149162E+07	5.47569E+07		-11.0	20
Heptachlor epoxide	A	0.100	0.084	5.405995E+07	4.52067E+07		-16.4	20
Chlordane-gamma	A	0.100	0.084	5.527518E+07	4.65632E+07		-15.8	20
Chlordane-alpha	A	0.100	0.084	5.296272E+07	4.42932E+07		-16.4	20
4,4'-DDE	A	0.100	0.085	5.244698E+07	4.4582E+07		-15.0	20
Endosulfan I	A	0.100	0.084	4.972951E+07	4.15456E+07		-16.5	20
Dieldrin	A	0.100	0.085	5.436507E+07	4.60582E+07		-15.3	20
Endrin	A	0.100	0.090	4.627937E+07	4.16968E+07		-9.9	20
4,4'-DDD	A	0.100	0.096	4.00135E+07	3.82668E+07		-4.4	20
Endosulfan II	A	0.100	0.084	4.442927E+07	3.70851E+07		-16.5	20
4,4'-DDT	A	0.100	0.072	4.164772E+07	3.01195E+07		-27.7	20 *
Endrin aldehyde	A	0.100	0.081	3.13612E+07	2.55419E+07		-18.6	20
Methoxychlor	A	0.100	0.073	2.117353E+07	1.55089E+07		-26.8	20 *
Endosulfan sulfate	A	0.100	0.090	3.673694E+07	3.31788E+07		-9.7	20
Endrin ketone	A	0.100	0.086	4.568736E+07	3.93552E+07		-13.9	20
alpha-BHC [2C]	A	0.100	0.096	7.552835E+07	7.26399E+07		-3.8	20
gamma-BHC [2C]	A	0.100	0.092	6.719113E+07	6.21022E+07		-7.6	20
beta-BHC [2C]	A	0.100	0.095	2.472905E+07	2.35417E+07		-4.8	20
delta-BHC [2C]	A	0.100	0.094	5.850208E+07	5.49634E+07		-6.0	20
Heptachlor [2C]	A	0.100	0.086	6.67268E+07	5.74366E+07		-13.9	20
Aldrin [2C]	A	0.100	0.086	6.357242E+07	5.46993E+07		-14.0	20
Heptachlor epoxide [2C]	A	0.100	0.082	5.626251E+07	4.61949E+07		-17.9	20
Chlordane-gamma [2C]	A	0.100	0.078	5.722595E+07	4.45063E+07		-22.2	20 *
Chlordane-alpha [2C]	A	0.100	0.077	5.472749E+07	4.19729E+07		-23.3	20 *

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LVB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00093	Injection Date:	12/27/06
Lab Sample ID:	BA00093-CCVA	Injection Time:	15:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.083	5.341989E+07	4.43336E+07		-17.0	20
Endosulfan I [2C]	A	0.100	0.079	5.087841E+07	4.00628E+07		-21.3	20 *
Dieldrin [2C]	A	0.100	0.084	5.608619E+07	4.70617E+07		-16.1	20
Endrin [2C]	A	0.100	0.091	4.605028E+07	4.18631E+07		-9.1	20
4,4'-DDD [2C]	A	0.100	0.093	4.157866E+07	3.87194E+07		-6.9	20
Endosulfan II [2C]	A	0.100	0.084	4.58875E+07	3.84502E+07		-16.2	20
4,4'-DDT [2C]	A	0.100	0.073	4.184652E+07	3.0619E+07		-26.8	20 *
Endrin aldehyde [2C]	A	0.100	0.078	3.232817E+07	2.53709E+07		-21.5	20 *
Methoxychlor [2C]	A	0.100	0.076	2.018515E+07	1.52558E+07		-24.4	20 *
Endosulfan sulfate [2C]	A	0.100	0.086	3.836149E+07	3.30051E+07		-14.0	20
Endrin ketone [2C]	A	0.100	0.085	4.596086E+07	3.90117E+07		-15.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV1	Injection Time:	11:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.088	7.280474E+07	6.39148E+07		-12.2	20
gamma-BHC	A	0.100	0.088	6.465721E+07	5.68009E+07		-12.2	20
beta-BHC	A	0.100	0.091	2.323065E+07	2.1159E+07		-8.9	20
delta-BHC	A	0.100	0.086	5.66961E+07	4.85966E+07		-14.3	20
Heptachlor	A	0.100	0.088	6.414063E+07	5.61711E+07		-12.4	20
Aldrin	A	0.100	0.086	6.149162E+07	5.31512E+07		-13.6	20
Heptachlor epoxide	A	0.100	0.088	5.405995E+07	4.73864E+07		-12.3	20
Chlordane-gamma	A	0.100	0.085	5.527518E+07	4.71511E+07		-14.7	20
Chlordane-alpha	A	0.100	0.089	5.296272E+07	4.70087E+07		-11.2	20
4,4'-DDE	A	0.100	0.088	5.244698E+07	4.61932E+07		-11.9	20
Endosulfan I	A	0.100	0.086	4.972951E+07	4.2891E+07		-13.8	20
Dieldrin	A	0.100	0.088	5.436507E+07	4.80431E+07		-11.6	20
Endrin	A	0.100	0.093	4.627937E+07	4.31322E+07		-6.8	20
4,4'-DDD	A	0.100	0.090	4.00135E+07	3.59511E+07		-10.2	20
Endosulfan II	A	0.100	0.087	4.442927E+07	3.8718E+07		-12.9	20
4,4'-DDT	A	0.100	0.084	4.164772E+07	3.51372E+07		-15.6	20
Endrin aldehyde	A	0.100	0.088	3.13612E+07	2.75854E+07		-12.0	20
Methoxychlor	A	0.100	0.086	2.117353E+07	1.82442E+07		-13.8	20
Endosulfan sulfate	A	0.100	0.087	3.673694E+07	3.20484E+07		-12.8	20
Endrin ketone	A	0.100	0.082	4.568736E+07	3.73513E+07		-18.2	20
alpha-BHC [2C]	A	0.100	0.084	7.552835E+07	6.36054E+07		-15.8	20
gamma-BHC [2C]	A	0.100	0.082	6.719113E+07	5.48947E+07		-18.3	20
beta-BHC [2C]	A	0.100	0.085	2.472905E+07	2.09939E+07		-15.1	20
delta-BHC [2C]	A	0.100	0.080	5.850208E+07	4.69584E+07		-19.7	20
Heptachlor [2C]	A	0.100	0.082	6.67268E+07	5.44735E+07		-18.4	20
Aldrin [2C]	A	0.100	0.084	6.357242E+07	5.37178E+07		-15.5	20
Heptachlor epoxide [2C]	A	0.100	0.082	5.626251E+07	4.60264E+07		-18.2	20
Chlordane-gamma [2C]	A	0.100	0.083	5.722595E+07	4.74716E+07		-17.0	20
Chlordane-alpha [2C]	A	0.100	0.083	5.472749E+07	4.52075E+07		-17.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV1	Injection Time:	11:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.086	5.341989E+07	4.6076E+07		-13.7	20
Endosulfan I [2C]	A	0.100	0.089	5.087841E+07	4.50699E+07		-11.4	20
Dieldrin [2C]	A	0.100	0.086	5.608619E+07	4.83878E+07		-13.7	20
Endrin [2C]	A	0.100	0.092	4.605028E+07	4.2604E+07		-7.5	20
4,4'-DDD [2C]	A	0.100	0.088	4.157866E+07	3.67359E+07		-11.6	20
Endosulfan II [2C]	A	0.100	0.086	4.58875E+07	3.96779E+07		-13.5	20
4,4'-DDT [2C]	A	0.100	0.083	4.184652E+07	3.47485E+07		-17.0	20
Endrin aldehyde [2C]	A	0.100	0.090	3.232817E+07	2.89568E+07		-10.4	20
Methoxychlor [2C]	A	0.100	0.087	2.018515E+07	1.74848E+07		-13.4	20
Endosulfan sulfate [2C]	A	0.100	0.087	3.836149E+07	3.34746E+07		-12.7	20
Endrin ketone [2C]	A	0.100	0.080	4.596086E+07	3.6736E+07		-20.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV2	Injection Time:	16:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.092	7.280474E+07	6.69491E+07		-8.0	20
gamma-BHC	A	0.100	0.091	6.465721E+07	5.88032E+07		-9.1	20
beta-BHC	A	0.100	0.095	2.323065E+07	2.19685E+07		-5.4	20
delta-BHC	A	0.100	0.094	5.66961E+07	5.30239E+07		-6.5	20
Heptachlor	A	0.100	0.089	6.414063E+07	5.71192E+07		-10.9	20
Aldrin	A	0.100	0.088	6.149162E+07	5.39983E+07		-12.2	20
Heptachlor epoxide	A	0.100	0.089	5.405995E+07	4.7878E+07		-11.4	20
Chlordane-gamma	A	0.100	0.086	5.527518E+07	4.78303E+07		-13.5	20
Chlordane-alpha	A	0.100	0.086	5.296272E+07	4.5488E+07		-14.1	20
4,4'-DDE	A	0.100	0.089	5.244698E+07	4.67156E+07		-10.9	20
Endosulfan I	A	0.100	0.088	4.972951E+07	4.36098E+07		-12.3	20
Dieldrin	A	0.100	0.089	5.436507E+07	4.8559E+07		-10.7	20
Endrin	A	0.100	0.095	4.627937E+07	4.37989E+07		-5.4	20
4,4'-DDD	A	0.100	0.090	4.00135E+07	3.58214E+07		-10.5	20
Endosulfan II	A	0.100	0.086	4.442927E+07	3.82695E+07		-13.9	20
4,4'-DDT	A	0.100	0.084	4.164772E+07	3.48838E+07		-16.2	20
Endrin aldehyde	A	0.100	0.092	3.13612E+07	2.89476E+07		-7.7	20
Methoxychlor	A	0.100	0.085	2.117353E+07	1.80302E+07		-14.8	20
Endosulfan sulfate	A	0.100	0.094	3.673694E+07	3.46672E+07		-5.6	20
Endrin ketone	A	0.100	0.087	4.568736E+07	3.97032E+07		-13.1	20
alpha-BHC [2C]	A	0.100	0.091	7.552835E+07	6.88314E+07		-8.9	20
gamma-BHC [2C]	A	0.100	0.090	6.719113E+07	6.06255E+07		-9.8	20
beta-BHC [2C]	A	0.100	0.094	2.472905E+07	2.31295E+07		-6.5	20
delta-BHC [2C]	A	0.100	0.087	5.850208E+07	5.07693E+07		-13.2	20
Heptachlor [2C]	A	0.100	0.084	6.67268E+07	5.59353E+07		-16.2	20
Aldrin [2C]	A	0.100	0.088	6.357242E+07	5.57535E+07		-12.3	20
Heptachlor epoxide [2C]	A	0.100	0.082	5.626251E+07	4.60595E+07		-18.1	20
Chlordane-gamma [2C]	A	0.100	0.085	5.722595E+07	4.84389E+07		-15.4	20
Chlordane-alpha [2C]	A	0.100	0.084	5.472749E+07	4.62558E+07		-15.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV2	Injection Time:	16:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.089	5.341989E+07	4.74223E+07		-11.2	20
Endosulfan I [2C]	A	0.100	0.087	5.087841E+07	4.40416E+07		-13.4	20
Dieldrin [2C]	A	0.100	0.088	5.608619E+07	4.93447E+07		-12.0	20
Endrin [2C]	A	0.100	0.094	4.605028E+07	4.34611E+07		-5.6	20
4,4'-DDD [2C]	A	0.100	0.090	4.157866E+07	3.7523E+07		-9.8	20
Endosulfan II [2C]	A	0.100	0.083	4.58875E+07	3.81321E+07		-16.9	20
4,4'-DDT [2C]	A	0.100	0.080	4.184652E+07	3.35788E+07		-19.8	20
Endrin aldehyde [2C]	A	0.100	0.092	3.232817E+07	2.96325E+07		-8.3	20
Methoxychlor [2C]	A	0.100	0.086	2.018515E+07	1.73014E+07		-14.3	20
Endosulfan sulfate [2C]	A	0.100	0.093	3.836149E+07	3.55683E+07		-7.3	20
Endrin ketone [2C]	A	0.100	0.084	4.596086E+07	3.87998E+07		-15.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOA017-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV3	Injection Time:	18:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.10	7.280474E+07	7.26927E+07		-0.2	20
gamma-BHC	A	0.100	0.098	6.465721E+07	6.36725E+07		-1.5	20
beta-BHC	A	0.100	0.10	2.323065E+07	2.36958E+07		2.0	20
delta-BHC	A	0.100	0.10	5.66961E+07	5.71913E+07		0.9	20
Heptachlor	A	0.100	0.094	6.414063E+07	6.00972E+07		-6.3	20
Aldrin	A	0.100	0.094	6.149162E+07	5.75949E+07		-6.3	20
Heptachlor epoxide	A	0.100	0.094	5.405995E+07	5.0782E+07		-6.1	20
Chlordane-gamma	A	0.100	0.092	5.527518E+07	5.08952E+07		-7.9	20
Chlordane-alpha	A	0.100	0.090	5.296272E+07	4.7421E+07		-10.5	20
4,4'-DDE	A	0.100	0.094	5.244698E+07	4.92839E+07		-6.0	20
Endosulfan I	A	0.100	0.092	4.972951E+07	4.57925E+07		-7.9	20
Dieldrin	A	0.100	0.094	5.436507E+07	5.11425E+07		-5.9	20
Endrin	A	0.100	0.10	4.627937E+07	4.61288E+07		-0.3	20
4,4'-DDD	A	0.100	0.10	4.00135E+07	4.06248E+07		1.5	20
Endosulfan II	A	0.100	0.093	4.442927E+07	4.13472E+07		-6.9	20
4,4'-DDT	A	0.100	0.080	4.164772E+07	3.33519E+07		-19.9	20
Endrin aldehyde	A	0.100	0.095	3.13612E+07	2.98872E+07		-4.7	20
Methoxychlor	A	0.100	0.085	2.117353E+07	1.79786E+07		-15.1	20
Endosulfan sulfate	A	0.100	0.096	3.673694E+07	3.5235E+07		-4.1	20
Endrin ketone	A	0.100	0.092	4.568736E+07	4.18219E+07		-8.5	20
alpha-BHC [2C]	A	0.100	0.099	7.552835E+07	7.4704E+07		-1.1	20
gamma-BHC [2C]	A	0.100	0.098	6.719113E+07	6.57657E+07		-2.1	20
beta-BHC [2C]	A	0.100	0.10	2.472905E+07	2.53531E+07		2.5	20
delta-BHC [2C]	A	0.100	0.095	5.850208E+07	5.55606E+07		-5.0	20
Heptachlor [2C]	A	0.100	0.090	6.67268E+07	5.97157E+07		-10.5	20
Aldrin [2C]	A	0.100	0.094	6.357242E+07	5.97562E+07		-6.0	20
Heptachlor epoxide [2C]	A	0.100	0.088	5.626251E+07	4.95668E+07		-11.9	20
Chlordane-gamma [2C]	A	0.100	0.090	5.722595E+07	5.17417E+07		-9.6	20
Chlordane-alpha [2C]	A	0.100	0.089	5.472749E+07	4.87029E+07		-11.0	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LOB017-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/20/06
Lab Sample ID:	BA00107-CCV3	Injection Time:	18:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.093	5.341989E+07	4.96598E+07		-7.0	20	
Endosulfan I [2C]	A	0.100	0.091	5.087841E+07	4.63984E+07		-8.8	20	
Dieldrin [2C]	A	0.100	0.090	5.608619E+07	5.07147E+07		-9.6	20	
Endrin [2C]	A	0.100	0.097	4.605028E+07	4.44949E+07		-3.4	20	
4,4'-DDD [2C]	A	0.100	0.098	4.157866E+07	4.07924E+07		-1.9	20	
Endosulfan II [2C]	A	0.100	0.091	4.58875E+07	4.18846E+07		-8.7	20	
4,4'-DDT [2C]	A	0.100	0.078	4.184652E+07	3.25352E+07		-22.3	20	*
Endrin aldehyde [2C]	A	0.100	0.092	3.232817E+07	2.9732E+07		-8.0	20	
Methoxychlor [2C]	A	0.100	0.084	2.018515E+07	1.69607E+07		-16.0	20	
Endosulfan sulfate [2C]	A	0.100	0.094	3.836149E+07	3.62237E+07		-5.6	20	
Endrin ketone [2C]	A	0.100	0.088	4.596086E+07	4.04471E+07		-12.0	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV4	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	7.280474E+07	7.68885E+07		5.6	20
gamma-BHC	A	0.100	0.11	6.465721E+07	6.84021E+07		5.8	20
beta-BHC	A	0.100	0.11	2.323065E+07	2.51638E+07		8.3	20
delta-BHC	A	0.100	0.11	5.66961E+07	6.09052E+07		7.4	20
Heptachlor	A	0.100	0.098	6.414063E+07	6.31121E+07		-1.6	20
Aldrin	A	0.100	0.10	6.149162E+07	6.28457E+07		2.2	20
Heptachlor epoxide	A	0.100	0.099	5.405995E+07	5.34168E+07		-1.2	20
Chlordane-gamma	A	0.100	0.10	5.527518E+07	5.62541E+07		1.8	20
Chlordane-alpha	A	0.100	0.10	5.296272E+07	5.37942E+07		1.6	20
4,4'-DDE	A	0.100	0.099	5.244698E+07	5.1753E+07		-1.3	20
Endosulfan I	A	0.100	0.10	4.972951E+07	5.04107E+07		1.4	20
Dieldrin	A	0.100	0.10	5.436507E+07	5.45375E+07		0.3	20
Endrin	A	0.100	0.10	4.627937E+07	4.71379E+07		1.9	20
4,4'-DDD	A	0.100	0.10	4.00135E+07	3.99588E+07		-0.1	20
Endosulfan II	A	0.100	0.10	4.442927E+07	4.42009E+07		-0.5	20
4,4'-DDT	A	0.100	0.10	4.164772E+07	4.17831E+07		0.3	20
Endrin aldehyde	A	0.100	0.11	3.13612E+07	3.30975E+07		5.5	20
Methoxychlor	A	0.100	0.090	2.117353E+07	1.90556E+07		-10.0	20
Endosulfan sulfate	A	0.100	0.10	3.673694E+07	3.73148E+07		1.6	20
Endrin ketone	A	0.100	0.097	4.568736E+07	4.45066E+07		-2.6	20
alpha-BHC [2C]	A	0.100	0.11	7.552835E+07	8.01853E+07		6.2	20
gamma-BHC [2C]	A	0.100	0.11	6.719113E+07	7.14683E+07		6.4	20
beta-BHC [2C]	A	0.100	0.11	2.472905E+07	2.74034E+07		10.8	20
delta-BHC [2C]	A	0.100	0.11	5.850208E+07	6.4283E+07		9.9	20
Heptachlor [2C]	A	0.100	0.10	6.67268E+07	6.84272E+07		2.5	20
Aldrin [2C]	A	0.100	0.10	6.357242E+07	6.62091E+07		4.1	20
Heptachlor epoxide [2C]	A	0.100	0.10	5.626251E+07	5.66261E+07		0.6	20
Chlordane-gamma [2C]	A	0.100	0.10	5.722595E+07	6.0018E+07		4.9	20
Chlordane-alpha [2C]	A	0.100	0.10	5.472749E+07	5.61833E+07		2.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV4	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.10	5.341989E+07	5.53691E+07		3.6	20
Endosulfan I [2C]	A	0.100	0.10	5.087841E+07	5.17736E+07		1.8	20
Dieldrin [2C]	A	0.100	0.10	5.608619E+07	5.74068E+07		2.4	20
Endrin [2C]	A	0.100	0.10	4.605028E+07	4.76899E+07		3.6	20
4,4'-DDD [2C]	A	0.100	0.10	4.157866E+07	4.24848E+07		2.2	20
Endosulfan II [2C]	A	0.100	0.10	4.58875E+07	4.67259E+07		1.8	20
4,4'-DDT [2C]	A	0.100	0.10	4.184652E+07	4.32596E+07		3.4	20
Endrin aldehyde [2C]	A	0.100	0.11	3.232817E+07	3.48409E+07		7.8	20
Methoxychlor [2C]	A	0.100	0.095	2.018515E+07	1.91563E+07		-5.1	20
Endosulfan sulfate [2C]	A	0.100	0.10	3.836149E+07	3.98218E+07		3.8	20
Endrin ketone [2C]	A	0.100	0.099	4.596086E+07	4.54807E+07		-1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQA019-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV5	Injection Time:	20:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	7.280474E+07	7.79407E+07		7.1	20
gamma-BHC	A	0.100	0.11	6.465721E+07	6.91652E+07		7.0	20
beta-BHC	A	0.100	0.11	2.323065E+07	2.55602E+07		10.0	20
delta-BHC	A	0.100	0.11	5.66961E+07	6.26225E+07		10.5	20
Heptachlor	A	0.100	0.099	6.414063E+07	6.35562E+07		-0.9	20
Aldrin	A	0.100	0.10	6.149162E+07	6.31769E+07		2.7	20
Heptachlor epoxide	A	0.100	0.098	5.405995E+07	5.31737E+07		-1.6	20
Chlordane-gamma	A	0.100	0.10	5.527518E+07	5.62493E+07		1.8	20
Chlordane-alpha	A	0.100	0.10	5.296272E+07	5.33927E+07		0.8	20
4,4'-DDE	A	0.100	0.099	5.244698E+07	5.21543E+07		-0.6	20
Endosulfan I	A	0.100	0.10	4.972951E+07	5.00354E+07		0.6	20
Dieldrin	A	0.100	0.10	5.436507E+07	5.4236E+07		-0.2	20
Endrin	A	0.100	0.10	4.627937E+07	4.76863E+07		3.0	20
4,4'-DDD	A	0.100	0.10	4.00135E+07	4.02511E+07		0.6	20
Endosulfan II	A	0.100	0.10	4.442927E+07	4.42105E+07		-0.5	20
4,4'-DDT	A	0.100	0.10	4.164772E+07	4.18581E+07		0.5	20
Endrin aldehyde	A	0.100	0.10	3.13612E+07	3.2394E+07		3.3	20
Methoxychlor	A	0.100	0.092	2.117353E+07	1.93667E+07		-8.5	20
Endosulfan sulfate	A	0.100	0.10	3.673694E+07	3.77282E+07		2.7	20
Endrin ketone	A	0.100	0.098	4.568736E+07	4.49701E+07		-1.6	20
alpha-BHC [2C]	A	0.100	0.11	7.552835E+07	8.25105E+07		9.2	20
gamma-BHC [2C]	A	0.100	0.11	6.719113E+07	7.3573E+07		9.5	20
beta-BHC [2C]	A	0.100	0.11	2.472905E+07	2.81749E+07		13.9	20
delta-BHC [2C]	A	0.100	0.11	5.850208E+07	6.65008E+07		13.7	20
Heptachlor [2C]	A	0.100	0.11	6.67268E+07	7.01776E+07		5.2	20
Aldrin [2C]	A	0.100	0.11	6.357242E+07	6.78567E+07		6.7	20
Heptachlor epoxide [2C]	A	0.100	0.10	5.626251E+07	5.77994E+07		2.7	20
Chlordane-gamma [2C]	A	0.100	0.11	5.722595E+07	6.14617E+07		7.4	20
Chlordane-alpha [2C]	A	0.100	0.11	5.472749E+07	5.75381E+07		5.1	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LQB019-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00107	Injection Date:	12/22/06
Lab Sample ID:	BA00107-CCV5	Injection Time:	20:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.11	5.341989E+07	5.67409E+07		6.2	20
Endosulfan I [2C]	A	0.100	0.10	5.087841E+07	5.29661E+07		4.1	20
Dieldrin [2C]	A	0.100	0.10	5.608619E+07	5.86404E+07		4.6	20
Endrin [2C]	A	0.100	0.11	4.605028E+07	4.9297E+07		7.1	20
4,4'-DDD [2C]	A	0.100	0.10	4.157866E+07	4.35631E+07		4.8	20
Endosulfan II [2C]	A	0.100	0.10	4.58875E+07	4.77632E+07		4.1	20
4,4'-DDT [2C]	A	0.100	0.11	4.184652E+07	4.43489E+07		6.0	20
Endrin aldehyde [2C]	A	0.100	0.11	3.232817E+07	3.4965E+07		8.2	20
Methoxychlor [2C]	A	0.100	0.096	2.018515E+07	1.93955E+07		-3.9	20
Endosulfan sulfate [2C]	A	0.100	0.11	3.836149E+07	4.11821E+07		7.4	20
Endrin ketone [2C]	A	0.100	0.10	4.596086E+07	4.69054E+07		2.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LEA024-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	12/12/06
Lab Sample ID:	BA00124-CCV1	Injection Time:	00:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.083	7.280474E+07	6.15638E+07		-15.4	20
gamma-BHC	A	0.100	0.085	6.465721E+07	5.4983E+07		-15.0	20
beta-BHC	A	0.100	0.090	2.323065E+07	2.08117E+07		-10.4	20
delta-BHC	A	0.100	0.10	5.66961E+07	5.0332E+07		-11.2	20
Heptachlor	A	0.100	0.084	6.414063E+07	5.19749E+07		-19.0	20
Aldrin	A	0.100	0.082	6.149162E+07	5.19812E+07		-15.5	20
Heptachlor epoxide	A	0.100	0.083	5.405995E+07	4.51678E+07		-16.4	20
Chlordane-gamma	A	0.100	0.081	5.527518E+07	4.6046E+07		-16.7	20
Chlordane-alpha	A	0.100	0.080	5.296272E+07	4.37544E+07		-17.4	20
4,4'-DDE	A	0.100	0.086	5.244698E+07	4.43093E+07		-15.5	20
Endosulfan I	A	0.100	0.079	4.972951E+07	4.13274E+07		-16.9	20
Dieldrin	A	0.100	0.088	5.436507E+07	4.58613E+07		-15.6	20
Endrin	A	0.100	0.082	4.627937E+07	3.99874E+07		-13.6	20
4,4'-DDD	A	0.100	0.10	4.00135E+07	3.92035E+07		-2.0	20
Endosulfan II	A	0.100	0.085	4.442927E+07	3.73735E+07		-15.9	20
4,4'-DDT	A	0.100	0.072	4.164772E+07	2.56629E+07		-38.4	20 *
Endrin aldehyde	A	0.100	0.090	3.13612E+07	2.71068E+07		-13.6	20
Methoxychlor	A	0.100	0.078	2.117353E+07	1.38803E+07		-34.4	20 *
Endosulfan sulfate	A	0.100	0.095	3.673694E+07	3.14392E+07		-14.4	20
Endrin ketone	A	0.100	0.087	4.568736E+07	3.82519E+07		-16.3	20
alpha-BHC [2C]	A	0.100	0.088	7.552835E+07	6.9305E+07		-8.2	20
gamma-BHC [2C]	A	0.100	0.089	6.719113E+07	6.10791E+07		-9.1	20
beta-BHC [2C]	A	0.100	0.095	2.472905E+07	2.37761E+07		-3.9	20
delta-BHC [2C]	A	0.100	0.10	5.850208E+07	5.53208E+07		-5.4	20
Heptachlor [2C]	A	0.100	0.087	6.67268E+07	5.74754E+07		-13.9	20
Aldrin [2C]	A	0.100	0.084	6.357242E+07	5.68798E+07		-10.5	20
Heptachlor epoxide [2C]	A	0.100	0.083	5.626251E+07	4.92334E+07		-12.5	20
Chlordane-gamma [2C]	A	0.100	0.080	5.722595E+07	4.98466E+07		-12.9	20
Chlordane-alpha [2C]	A	0.100	0.080	5.472749E+07	4.69019E+07		-14.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LEB024-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	12/12/06
Lab Sample ID:	BA00124-CCV1	Injection Time:	00:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.084	5.341989E+07	4.70944E+07		-11.8	20	
Endosulfan I [2C]	A	0.100	0.082	5.087841E+07	4.42332E+07		-13.1	20	
Dieldrin [2C]	A	0.100	0.083	5.608619E+07	4.92624E+07		-12.2	20	
Endrin [2C]	A	0.100	0.082	4.605028E+07	4.17217E+07		-9.4	20	
4,4'-DDD [2C]	A	0.100	0.10	4.157866E+07	4.22249E+07		1.6	20	
Endosulfan II [2C]	A	0.100	0.084	4.58875E+07	4.10358E+07		-10.6	20	
4,4'-DDT [2C]	A	0.100	0.074	4.184652E+07	2.73949E+07		-34.5	20	*
Endrin aldehyde [2C]	A	0.100	0.088	3.232817E+07	2.87243E+07		-11.1	20	
Methoxychlor [2C]	A	0.100	0.081	2.018515E+07	1.40402E+07		-30.4	20	*
Endosulfan sulfate [2C]	A	0.100	0.096	3.836149E+07	3.4552E+07		-9.9	20	
Endrin ketone [2C]	A	0.100	0.087	4.596086E+07	3.99598E+07		-13.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LEA035-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	12/12/06
Lab Sample ID:	BA00124-CCV2	Injection Time:	05:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-BHC	A	0.100	0.088	7.280474E+07	6.48396E+07		-10.9	20	
gamma-BHC	A	0.100	0.088	6.465721E+07	5.73121E+07		-11.4	20	
beta-BHC	A	0.100	0.093	2.323065E+07	2.16025E+07		-7.0	20	
delta-BHC	A	0.100	0.11	5.66961E+07	5.25309E+07		-7.3	20	
Heptachlor	A	0.100	0.087	6.414063E+07	5.38243E+07		-16.1	20	
Aldrin	A	0.100	0.084	6.149162E+07	5.31573E+07		-13.6	20	
Heptachlor epoxide	A	0.100	0.084	5.405995E+07	4.60926E+07		-14.7	20	
Chlordane-gamma	A	0.100	0.083	5.527518E+07	4.7218E+07		-14.6	20	
Chlordane-alpha	A	0.100	0.082	5.296272E+07	4.47809E+07		-15.4	20	
4,4'-DDE	A	0.100	0.088	5.244698E+07	4.542E+07		-13.4	20	
Endosulfan I	A	0.100	0.081	4.972951E+07	4.21589E+07		-15.2	20	
Dieldrin	A	0.100	0.090	5.436507E+07	4.67764E+07		-14.0	20	
Endrin	A	0.100	0.084	4.627937E+07	4.09414E+07		-11.5	20	
4,4'-DDD	A	0.100	0.098	4.00135E+07	3.77084E+07		-5.8	20	
Endosulfan II	A	0.100	0.087	4.442927E+07	3.83233E+07		-13.7	20	
4,4'-DDT	A	0.100	0.086	4.164772E+07	3.07976E+07		-26.1	20	*
Endrin aldehyde	A	0.100	0.097	3.13612E+07	2.93832E+07		-6.3	20	
Methoxychlor	A	0.100	0.090	2.117353E+07	1.60132E+07		-24.4	20	*
Endosulfan sulfate	A	0.100	0.099	3.673694E+07	3.28562E+07		-10.6	20	
Endrin ketone	A	0.100	0.090	4.568736E+07	3.9458E+07		-13.6	20	
alpha-BHC [2C]	A	0.100	0.089	7.552835E+07	6.99843E+07		-7.3	20	
gamma-BHC [2C]	A	0.100	0.090	6.719113E+07	6.17116E+07		-8.2	20	
beta-BHC [2C]	A	0.100	0.096	2.472905E+07	2.40705E+07		-2.7	20	
delta-BHC [2C]	A	0.100	0.11	5.850208E+07	5.62239E+07		-3.9	20	
Heptachlor [2C]	A	0.100	0.088	6.67268E+07	5.84264E+07		-12.4	20	
Aldrin [2C]	A	0.100	0.085	6.357242E+07	5.74279E+07		-9.7	20	
Heptachlor epoxide [2C]	A	0.100	0.084	5.626251E+07	4.97812E+07		-11.5	20	
Chlordane-gamma [2C]	A	0.100	0.082	5.722595E+07	5.08237E+07		-11.2	20	
Chlordane-alpha [2C]	A	0.100	0.081	5.472749E+07	4.7937E+07		-12.4	20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LEB035-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	12/12/06
Lab Sample ID:	BA00124-CCV2	Injection Time:	05:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.085	5.341989E+07	4.79473E+07		-10.2	20	
Endosulfan I [2C]	A	0.100	0.083	5.087841E+07	4.49428E+07		-11.7	20	
Dieldrin [2C]	A	0.100	0.084	5.608619E+07	4.9987E+07		-10.9	20	
Endrin [2C]	A	0.100	0.084	4.605028E+07	4.22605E+07		-8.2	20	
4,4'-DDD [2C]	A	0.100	0.095	4.157866E+07	4.03675E+07		-2.9	20	
Endosulfan II [2C]	A	0.100	0.085	4.58875E+07	4.13424E+07		-9.9	20	
4,4'-DDT [2C]	A	0.100	0.088	4.184652E+07	3.24941E+07		-22.3	20	*
Endrin aldehyde [2C]	A	0.100	0.093	3.232817E+07	3.0156E+07		-6.7	20	
Methoxychlor [2C]	A	0.100	0.090	2.018515E+07	1.55806E+07		-22.8	20	*
Endosulfan sulfate [2C]	A	0.100	0.098	3.836149E+07	3.54237E+07		-7.7	20	
Endrin ketone [2C]	A	0.100	0.090	4.596086E+07	4.16793E+07		-9.3	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	01/15/07
Lab Sample ID:	BA00124-CCV3	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	7.280474E+07	7.78078E+07		6.9	20
gamma-BHC	A	0.100	0.11	6.465721E+07	6.91035E+07		6.9	20
beta-BHC	A	0.100	0.11	2.323065E+07	2.55084E+07		9.8	20
delta-BHC	A	0.100	0.11	5.66961E+07	6.17554E+07		8.9	20
Heptachlor	A	0.100	0.10	6.414063E+07	6.54397E+07		2.0	20
Aldrin	A	0.100	0.10	6.149162E+07	6.38443E+07		3.8	20
Heptachlor epoxide	A	0.100	0.10	5.405995E+07	5.50908E+07		1.9	20
Chlordane-gamma	A	0.100	0.10	5.527518E+07	5.75109E+07		4.0	20
Chlordane-alpha	A	0.100	0.10	5.296272E+07	5.47599E+07		3.4	20
4,4'-DDE	A	0.100	0.10	5.244698E+07	5.37175E+07		2.4	20
Endosulfan I	A	0.100	0.10	4.972951E+07	5.19852E+07		4.5	20
Dieldrin	A	0.100	0.10	5.436507E+07	5.51876E+07		1.5	20
Endrin	A	0.100	0.11	4.627937E+07	4.94466E+07		6.8	20
4,4'-DDD	A	0.100	0.11	4.00135E+07	4.25645E+07		6.4	20
Endosulfan II	A	0.100	0.10	4.442927E+07	4.5894E+07		3.3	20
4,4'-DDT	A	0.100	0.10	4.164772E+07	4.29415E+07		3.1	20
Endrin aldehyde	A	0.100	0.11	3.13612E+07	3.31916E+07		5.8	20
Methoxychlor	A	0.100	0.096	2.117353E+07	2.02685E+07		-4.3	20
Endosulfan sulfate	A	0.100	0.11	3.673694E+07	3.96956E+07		8.1	20
Endrin ketone	A	0.100	0.10	4.568736E+07	4.6758E+07		2.3	20
alpha-BHC [2C]	A	0.100	0.10	7.552835E+07	7.84925E+07		3.9	20
gamma-BHC [2C]	A	0.100	0.10	6.719113E+07	6.93927E+07		3.3	20
beta-BHC [2C]	A	0.100	0.11	2.472905E+07	2.67484E+07		8.2	20
delta-BHC [2C]	A	0.100	0.11	5.850208E+07	6.38122E+07		9.1	20
Heptachlor [2C]	A	0.100	0.10	6.67268E+07	6.74725E+07		1.1	20
Aldrin [2C]	A	0.100	0.10	6.357242E+07	6.4905E+07		2.1	20
Heptachlor epoxide [2C]	A	0.100	0.10	5.626251E+07	5.6665E+07		0.7	20
Chlordane-gamma [2C]	A	0.100	0.10	5.722595E+07	5.88478E+07		2.8	20
Chlordane-alpha [2C]	A	0.100	0.10	5.472749E+07	5.59844E+07		2.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	01/15/07
Lab Sample ID:	BA00124-CCV3	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.10	5.341989E+07	5.48307E+07		2.6	20
Endosulfan I [2C]	A	0.100	0.10	5.087841E+07	5.23499E+07		2.9	20
Dieldrin [2C]	A	0.100	0.10	5.608619E+07	5.71103E+07		1.8	20
Endrin [2C]	A	0.100	0.11	4.605028E+07	4.9115E+07		6.7	20
4,4'-DDD [2C]	A	0.100	0.10	4.157866E+07	4.30454E+07		3.5	20
Endosulfan II [2C]	A	0.100	0.10	4.58875E+07	4.6853E+07		2.1	20
4,4'-DDT [2C]	A	0.100	0.096	4.184652E+07	4.03994E+07		-3.5	20
Endrin aldehyde [2C]	A	0.100	0.10	3.232817E+07	3.34619E+07		3.5	20
Methoxychlor [2C]	A	0.100	0.097	2.018515E+07	1.95143E+07		-3.3	20
Endosulfan sulfate [2C]	A	0.100	0.11	3.836149E+07	4.06163E+07		5.9	20
Endrin ketone [2C]	A	0.100	0.10	4.596086E+07	4.63722E+07		0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA023-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	01/16/07
Lab Sample ID:	BA00124-CCV4	Injection Time:	01:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	7.280474E+07	8.29136E+07		13.9	20
gamma-BHC	A	0.100	0.11	6.465721E+07	7.37131E+07		14.0	20
beta-BHC	A	0.100	0.12	2.323065E+07	2.72645E+07		~~17.4~~	20
delta-BHC	A	0.100	0.12	5.66961E+07	6.68207E+07		~~17.9~~	20
Heptachlor	A	0.100	0.11	6.414063E+07	6.91247E+07		7.8	20
Aldrin	A	0.100	0.11	6.149162E+07	6.76012E+07		9.9	20
Heptachlor epoxide	A	0.100	0.11	5.405995E+07	5.78356E+07		7.0	20
Chlordane-gamma	A	0.100	0.11	5.527518E+07	6.06917E+07		9.8	20
Chlordane-alpha	A	0.100	0.11	5.296272E+07	5.78042E+07		9.1	20
4,4'-DDE	A	0.100	0.11	5.244698E+07	5.67447E+07		8.2	20
Endosulfan I	A	0.100	0.11	4.972951E+07	5.4591E+07		9.8	20
Dieldrin	A	0.100	0.11	5.436507E+07	5.83719E+07		7.4	20
Endrin	A	0.100	0.11	4.627937E+07	5.2401E+07		13.2	20
4,4'-DDD	A	0.100	0.11	4.00135E+07	4.50028E+07		12.5	20
Endosulfan II	A	0.100	0.11	4.442927E+07	4.81878E+07		8.5	20
4,4'-DDT	A	0.100	0.11	4.164772E+07	4.52327E+07		8.6	20
Endrin aldehyde	A	0.100	0.11	3.13612E+07	3.52995E+07		12.6	20
Methoxychlor	A	0.100	0.10	2.117353E+07	2.13182E+07		0.7	20
Endosulfan sulfate	A	0.100	0.11	3.673694E+07	4.13592E+07		12.6	20
Endrin ketone	A	0.100	0.11	4.568736E+07	4.88757E+07		7.0	20
alpha-BHC [2C]	A	0.100	0.11	7.552835E+07	8.43596E+07		11.7	20
gamma-BHC [2C]	A	0.100	0.11	6.719113E+07	7.50238E+07		11.7	20
beta-BHC [2C]	A	0.100	0.12	2.472905E+07	2.89544E+07		~~17.1~~	20
delta-BHC [2C]	A	0.100	0.12	5.850208E+07	6.85615E+07		~~17.2~~	20
Heptachlor [2C]	A	0.100	0.11	6.67268E+07	7.23144E+07		8.4	20
Aldrin [2C]	A	0.100	0.11	6.357242E+07	6.98174E+07		9.8	20
Heptachlor epoxide [2C]	A	0.100	0.11	5.626251E+07	6.04381E+07		7.4	20
Chlordane-gamma [2C]	A	0.100	0.11	5.722595E+07	6.31567E+07		10.4	20
Chlordane-alpha [2C]	A	0.100	0.11	5.472749E+07	5.92601E+07		8.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB023-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	01/16/07
Lab Sample ID:	BA00124-CCV4	Injection Time:	01:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.11	5.341989E+07	5.89262E+07		10.3	20
Endosulfan I [2C]	A	0.100	0.11	5.087841E+07	5.49244E+07		8.0	20
Dieldrin [2C]	A	0.100	0.11	5.608619E+07	6.10078E+07		8.8	20
Endrin [2C]	A	0.100	0.11	4.605028E+07	5.28151E+07		14.7	20
4,4'-DDD [2C]	A	0.100	0.11	4.157866E+07	4.60341E+07		10.7	20
Endosulfan II [2C]	A	0.100	0.11	4.58875E+07	4.97748E+07		8.5	20
4,4'-DDT [2C]	A	0.100	0.11	4.184652E+07	4.41756E+07		5.6	20
Endrin aldehyde [2C]	A	0.100	0.11	3.232817E+07	3.60534E+07		11.5	20
Methoxychlor [2C]	A	0.100	0.10	2.018515E+07	2.06216E+07		2.2	20
Endosulfan sulfate [2C]	A	0.100	0.11	3.836149E+07	4.303E+07		12.2	20
Endrin ketone [2C]	A	0.100	0.11	4.596086E+07	4.91413E+07		6.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJA026-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	01/16/07
Lab Sample ID:	BA00124-CCV5	Injection Time:	03:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	7.280474E+07	8.36662E+07		14.9	20
gamma-BHC	A	0.100	0.11	6.465721E+07	7.4213E+07		14.8	20
beta-BHC	A	0.100	0.12	2.323065E+07	2.73608E+07		17.8	20
delta-BHC	A	0.100	0.12	5.66961E+07	6.65482E+07		17.4	20
Heptachlor	A	0.100	0.11	6.414063E+07	6.93633E+07		8.1	20
Aldrin	A	0.100	0.11	6.149162E+07	6.77842E+07		10.2	20
Heptachlor epoxide	A	0.100	0.11	5.405995E+07	5.7801E+07		6.9	20
Chlordane-gamma	A	0.100	0.11	5.527518E+07	6.05444E+07		9.5	20
Chlordane-alpha	A	0.100	0.11	5.296272E+07	5.76892E+07		8.9	20
4,4'-DDE	A	0.100	0.11	5.244698E+07	5.69034E+07		8.5	20
Endosulfan I	A	0.100	0.11	4.972951E+07	5.41437E+07		8.9	20
Dieldrin	A	0.100	0.11	5.436507E+07	5.81475E+07		7.0	20
Endrin	A	0.100	0.11	4.627937E+07	5.25574E+07		13.6	20
4,4'-DDD	A	0.100	0.11	4.00135E+07	4.48885E+07		12.2	20
Endosulfan II	A	0.100	0.11	4.442927E+07	4.76942E+07		7.3	20
4,4'-DDT	A	0.100	0.11	4.164772E+07	4.47766E+07		7.5	20
Endrin aldehyde	A	0.100	0.11	3.13612E+07	3.47032E+07		10.7	20
Methoxychlor	A	0.100	0.10	2.117353E+07	2.12641E+07		0.4	20
Endosulfan sulfate	A	0.100	0.11	3.673694E+07	4.08763E+07		11.3	20
Endrin ketone	A	0.100	0.10	4.568736E+07	4.55371E+07		-0.3	20
alpha-BHC [2C]	A	0.100	0.11	7.552835E+07	8.50228E+07		12.6	20
gamma-BHC [2C]	A	0.100	0.11	6.719113E+07	7.54026E+07		12.2	20
beta-BHC [2C]	A	0.100	0.12	2.472905E+07	2.90435E+07		17.4	20
delta-BHC [2C]	A	0.100	0.12	5.850208E+07	6.8851E+07		17.7	20
Heptachlor [2C]	A	0.100	0.11	6.67268E+07	7.23827E+07		8.5	20
Aldrin [2C]	A	0.100	0.11	6.357242E+07	6.97436E+07		9.7	20
Heptachlor epoxide [2C]	A	0.100	0.11	5.626251E+07	6.03389E+07		7.2	20
Chlordane-gamma [2C]	A	0.100	0.11	5.722595E+07	6.2922E+07		10.0	20
Chlordane-alpha [2C]	A	0.100	0.11	5.472749E+07	5.96853E+07		9.1	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9AJB026-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00124	Injection Date:	01/16/07
Lab Sample ID:	BA00124-CCV5	Injection Time:	03:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.11	5.341989E+07	5.82612E+07		9.1	20
Endosulfan I [2C]	A	0.100	0.11	5.087841E+07	5.57979E+07		9.7	20
Dieldrin [2C]	A	0.100	0.11	5.608619E+07	6.0089E+07		7.1	20
Endrin [2C]	A	0.100	0.12	4.605028E+07	5.29588E+07		15.0	20
4,4'-DDD [2C]	A	0.100	0.11	4.157866E+07	4.60665E+07		10.8	20
Endosulfan II [2C]	A	0.100	0.11	4.58875E+07	4.95591E+07		8.0	20
4,4'-DDT [2C]	A	0.100	0.096	4.184652E+07	4.00059E+07		-4.4	20
Endrin aldehyde [2C]	A	0.100	0.097	3.232817E+07	3.13181E+07		-3.1	20
Methoxychlor [2C]	A	0.100	0.10	2.018515E+07	2.05893E+07		2.0	20
Endosulfan sulfate [2C]	A	0.100	0.11	3.836149E+07	4.24059E+07		10.5	20
Endrin ketone [2C]	A	0.100	0.11	4.596086E+07	4.89096E+07		6.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00093	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00093-PEM3	9LQB021-0	12/22/06 21:17
Performance Mix	BA00093-PEM3	9LQA021-0	12/22/06 21:17
Calibration Check	BA00093-CCV5	9LQA022-0	12/22/06 21:42
Calibration Check	BA00093-CCV5	9LQB022-0	12/22/06 21:42
JAX47-SB083-01-120106	B610375-15RE2	9LQB024-0	12/22/06 22:34
JAX47-SB083-01-120106	B610375-15RE2	9LQA024-0	12/22/06 22:34
JAX47-SB087-01-120106	B610375-17RE2	9LQA025-0	12/22/06 23:00
JAX47-SB087-01-120106	B610375-17RE2	9LQB025-0	12/22/06 23:00
Calibration Check	BA00093-CCV6	9LQA026-0	12/22/06 23:26
Calibration Check	BA00093-CCV6	9LQB026-0	12/22/06 23:26
Instrument Blank	BA00093-IBL4	9LUB022-0	12/26/06 21:01
Instrument Blank	BA00093-IBL4	9LUA022-0	12/26/06 21:01
Performance Mix	BA00093-PEM4	9LUA023-0	12/26/06 21:27
Performance Mix	BA00093-PEM4	9LUB023-0	12/26/06 21:27
Calibration Check	BA00093-CCV7	9LUB029-0	12/27/06 00:02
Calibration Check	BA00093-CCV7	9LUA029-0	12/27/06 00:02
Blank	6L08006-BLK1	9LUA030-0	12/27/06 00:28
Blank	6L08006-BLK1	9LUB030-0	12/27/06 00:28
LCS	6L08006-BS1	9LUB031-0	12/27/06 00:53
LCS	6L08006-BS1	9LUA031-0	12/27/06 00:53
JAX47-SB110-01-113006	6L08006-MS1	9LUB032-0	12/27/06 01:19
JAX47-SB110-01-113006	6L08006-MS1	9LUA032-0	12/27/06 01:19
JAX47-SB110-01-113006	6L08006-MSD1	9LUB033-0	12/27/06 01:45
JAX47-SB110-01-113006	6L08006-MSD1	9LUA033-0	12/27/06 01:45
JAX47-DU03-120106	B610375-04	9LUA034-0	12/27/06 02:11
JAX47-DU03-120106	B610375-04	9LUB034-0	12/27/06 02:11
JAX47-SB078-01-120106	B610375-05	9LUB035-0	12/27/06 02:37
JAX47-SB078-01-120106	B610375-05	9LUA035-0	12/27/06 02:37
JAX47-SB078-06-120106	B610375-06	9LUB036-0	12/27/06 03:03
JAX47-SB078-06-120106	B610375-06	9LUA036-0	12/27/06 03:03
JAX47-DU02-120106	B610375-03	9LUA037-0	12/27/06 03:28
JAX47-DU02-120106	B610375-03	9LUB037-0	12/27/06 03:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00093	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB110-05-113006	B610375-02	9LUB038-0	12/27/06 03:54
JAX47-SB110-05-113006	B610375-02	9LUA038-0	12/27/06 03:54
Calibration Check	BA00093-CCV8	9LUB040-0	12/27/06 04:46
Calibration Check	BA00093-CCV8	9LUA040-0	12/27/06 04:46
Instrument Blank	BA00093-IBL5	9LVB001-0	12/27/06 09:54
Instrument Blank	BA00093-IBL5	9LVA001-0	12/27/06 09:54
Performance Mix	BA00093-PEM5	9LVB002-0	12/27/06 10:20
Performance Mix	BA00093-PEM5	9LVA002-0	12/27/06 10:20
Calibration Check	BA00093-CCV9	9LVB003-0	12/27/06 10:46
Calibration Check	BA00093-CCV9	9LVA003-0	12/27/06 10:46
JAX47-SB088-03-120106	B610375-19	9LVB008-0	12/27/06 13:30
JAX47-SB088-03-120106	B610375-19	9LVA008-0	12/27/06 13:30
JAX47-SB088-06-120106	B610375-20	9LVB009-0	12/27/06 13:55
JAX47-SB088-06-120106	B610375-20	9LVA009-0	12/27/06 13:55
JAX47-SB087-05-120106	B610375-18	9LVA010-0	12/27/06 14:21
JAX47-SB087-05-120106	B610375-18	9LVB010-0	12/27/06 14:21
JAX47-SB087-01-120106 Matl	B610375-17	9LVA011-0	12/27/06 14:47
JAX47-SB087-01-120106	B610375-17	9LVB011-0	12/27/06 14:47
Calibration Check	BA00093-CCVA	9LVA012-0	12/27/06 15:13
Calibration Check	BA00093-CCVA	9LVB012-0	12/27/06 15:13

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00107-IBL1	9LOB001-0	12/20/06 10:39
Instrument Blank	BA00107-IBL1	9LOA001-0	12/20/06 10:39
Performance Mix	BA00107-PEM1	9LOA002A-0	12/20/06 11:32
Performance Mix	BA00107-PEM1	9LOB002A-0	12/20/06 11:32
Calibration Check	BA00107-CCV1	9LOA003-0	12/20/06 11:59
Calibration Check	BA00107-CCV1	9LOB003-0	12/20/06 11:59
LCS	6L14027-BS1	9LOA005-0	12/20/06 12:50
LCS	6L14027-BS1	9LOB005-0	12/20/06 12:50
Blank	6L14027-BLK1	9LOA006-0	12/20/06 13:22
Blank	6L14027-BLK1	9LOB006-0	12/20/06 13:22
JAX47-SB079-06-120106	B610375-08RE1	9LOA008-0	12/20/06 14:13
JAX47-SB079-06-120106	B610375-08RE1	9LOB008-0	12/20/06 14:13
JAX47-SB082-02-120106	B610375-13RE1	9LOB010-0	12/20/06 15:05
JAX47-SB082-02-120106	B610375-13RE1	9LOA010-0	12/20/06 15:05
Calibration Check	BA00107-CCV2	9LOA013-0	12/20/06 16:23
Calibration Check	BA00107-CCV2	9LOB013-0	12/20/06 16:23
JAX47-SB110-01-113006	B610375-01RE1	9LOA014-0	12/20/06 16:48
JAX47-SB110-01-113006	B610375-01RE1	9LOB014-0	12/20/06 16:48
JAX47-SB110-01-113006	6L14027-MS1	9LOA015-0	12/20/06 17:14
JAX47-SB110-01-113006	6L14027-MS1	9LOB015-0	12/20/06 17:14
JAX47-SB110-01-113006	6L14027-MSD1	9LOA016-0	12/20/06 17:40
JAX47-SB110-01-113006	6L14027-MSD1	9LOB016-0	12/20/06 17:40
Calibration Check	BA00107-CCV3	9LOB017-0	12/20/06 18:06
Calibration Check	BA00107-CCV3	9LOA017-0	12/20/06 18:06
Instrument Blank	BA00107-IBL2	9LQA001-0	12/22/06 10:49
Instrument Blank	BA00107-IBL2	9LQB001-0	12/22/06 10:49
Performance Mix	BA00107-PEM2	9LQA002-0	12/22/06 11:14
Performance Mix	BA00107-PEM2	9LQB002-0	12/22/06 11:14
Calibration Check	BA00107-CCV4	9LQA012-0	12/22/06 16:24
Calibration Check	BA00107-CCV4	9LQB012-0	12/22/06 16:24
JAX47-SB082-02-120106	B610375-13RE2	9LQA014-0	12/22/06 17:42
JAX47-SB082-02-120106	B610375-13RE2	9LQB014-0	12/22/06 17:42

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00107	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB110-01-113006	B610375-01RE2	9LQB015-0	12/22/06 18:08
JAX47-SB110-01-113006	B610375-01RE2	9LQA015-0	12/22/06 18:08
JAX47-SB110-01-113006	B610375-01RE3	9LQA017-0	12/22/06 18:59
JAX47-SB110-01-113006	B610375-01RE3	9LQB017-0	12/22/06 18:59
Calibration Check	BA00107-CCV5	9LQB019-0	12/22/06 20:17
Calibration Check	BA00107-CCV5	9LQA019-0	12/22/06 20:17

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00124	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00124-IBL2	9AJB001B-0	01/15/07 16:21
Instrument Blank	BA00124-IBL2	9AJA001B-0	01/15/07 16:21
Performance Mix	BA00124-PEM2	9AJB002B-0	01/15/07 16:47
Performance Mix	BA00124-PEM2	9AJA002B-0	01/15/07 16:47
Calibration Check	BA00124-CCV3	9AJB013-0	01/15/07 21:31
Calibration Check	BA00124-CCV3	9AJA013-0	01/15/07 21:31
JAX47-SB079-01-120106	B610375-07RE1	9AJB014-0	01/15/07 21:56
JAX47-SB079-01-120106	B610375-07RE1	9AJA014-0	01/15/07 21:56
JAX47-SB080-01-120106	B610375-09RE1	9AJA015-0	01/15/07 22:22
JAX47-SB080-01-120106	B610375-09RE1	9AJB015-0	01/15/07 22:22
JAX47-SB080-05-120106	B610375-10RE1	9AJA016-0	01/15/07 22:48
JAX47-SB080-05-120106	B610375-10RE1	9AJB016-0	01/15/07 22:48
JAX47-SB081-05-120106	B610375-12RE1	9AJA017-0	01/15/07 23:14
JAX47-SB081-05-120106	B610375-12RE1	9AJB017-0	01/15/07 23:14
JAX47-SB082-05-120106	B610375-14RE1	9AJB018-0	01/15/07 23:40
JAX47-SB082-05-120106	B610375-14RE1	9AJA018-0	01/15/07 23:40
JAX47-SB083-01-120106	B610375-15RE3	9AJB019-0	01/16/07 00:06
JAX47-SB083-01-120106	B610375-15RE3	9AJA019-0	01/16/07 00:06
JAX47-SB083-05-120106	B610375-16RE1	9AJB020-0	01/16/07 00:31
JAX47-SB083-05-120106	B610375-16RE1	9AJA020-0	01/16/07 00:31
JAX47-SB088-03-120106	B610375-19RE1	9AJB021-0	01/16/07 00:57
JAX47-SB088-03-120106	B610375-19RE1	9AJA021-0	01/16/07 00:57
JAX47-SB088-06-120106	B610375-20RE1	9AJB022-0	01/16/07 01:23
JAX47-SB088-06-120106	B610375-20RE1	9AJA022-0	01/16/07 01:23
Calibration Check	BA00124-CCV4	9AJA023-0	01/16/07 01:49
Calibration Check	BA00124-CCV4	9AJB023-0	01/16/07 01:49
JAX47-SB087-05-120106	B610375-18RE2	9AJB024-0	01/16/07 02:15
JAX47-SB087-05-120106	B610375-18RE2	9AJA024-0	01/16/07 02:15
Calibration Check	BA00124-CCV5	9AJB026-0	01/16/07 03:07
Calibration Check	BA00124-CCV5	9AJA026-0	01/16/07 03:07
Instrument Blank	BA00124-IBL1	9LEB001C-0	12/11/06 14:59
Instrument Blank	BA00124-IBL1	9LEA001C-0	12/11/06 14:59

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-01RE1	File ID:	9LOA014-0
Sampled:	11/30/06 15:52	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 16:48
Solids:	97.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
alpha-BHC	* 1	7.928	8.023286	0.0953		0.00027	11.8
gamma-BHC	* 1	8.537	8.628	0.091		0.00096	13.6
beta-BHC	1	8.728	8.816429	0.0884		0.0017	58.6
delta-BHC	* 1	9.03	9.124286	0.0943		0.00058	18.9
Heptachlor	* 1	9.374	9.463429	0.0894		0.00041	21.7
Heptachlor epoxide	1	10.867	10.95643	0.0894		0.034	102
Endrin	* 1	12.171	12.26457	0.0936		0.046	9.09
4,4'-DDD	* 1	12.287	12.37786	0.0909		0.065	42.4
Endrin aldehyde	* 1	13.157	13.21929	0.0623		0.013	42.4
Methoxychlor	1	13.405	13.48543	0.0804		0.012	185
Endosulfan sulfate	1	13.761	13.853	0.092		0.010	43.9
Endrin ketone	* 1	14.156	14.25229	0.0963		0.0097	59.9
alpha-BHC	2	7.753	7.838	0.085		0.00024	11.8
gamma-BHC	2	8.414	8.497428	0.0834		0.0011	13.6
beta-BHC	* 2	8.607	8.687429	0.0804		0.00093	58.6
delta-BHC	2	9.1	9.180286	0.0803		0.00048	18.9
Heptachlor	2	9.156	9.237571	0.0816		0.00051	21.7
Aldrin	2	9.688	9.759429	0.0714		0.00099	
Heptachlor epoxide	* 2	10.597	10.67843	0.0814		0.011	102
Endrin	2	12.037	12.121	0.084		0.042	9.09
4,4'-DDD	2	12.241	12.32514	0.0841		0.10	42.4
Endrin aldehyde	2	12.861	12.927	0.066		0.020	42.4
Methoxychlor	* 2	13.719	13.77371	0.0547		0.00048	185
Endosulfan sulfate	* 2	13.244	13.32643	0.0824		0.0064	43.9
Endrin ketone	2	14.003	14.08214	0.0791		0.018	59.9
2,4,5,6-TCMX	* 1	6.754	6.848286	0.0943		0.029	3.51
2,4,5,6-TCMX	2	6.481	6.564286	0.0833		0.028	3.51
DBC	* 1	14.017	14.10214	0.0851		0.051	51.9
DBC	2	13.833	13.90914	0.0761		0.030	51.9

O.K.

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-01RE2	File ID:	9LQA015-0
Sampled:	11/30/06 15:52	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 18:08
Solids:	97.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	11.019	11.14771	0.129		0.22	4.44
Chlordane-alpha	* 1	11.216	11.34971	0.134		0.23	8.33
Dieldrin	* 1	11.791	11.91886	0.128		0.16	6.06
Chlordane-gamma	2	10.856	10.97329	0.117		0.23	4.44
Chlordane-alpha	2	11.077	11.19143	0.114		0.25	8.33
Dieldrin	2	11.557	11.67429	0.117		0.17	6.06
2,4,5,6-TCMX	* 1	6.716	6.848286	0.132		0.026	3.77
2,4,5,6-TCMX	2	6.447	6.564286	0.117		0.027	3.77
DBC	* 1	13.981	14.10214	0.121		0.047	47.4
DBC	2	13.801	13.90914	0.108		0.029	47.4

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-01RE3	File ID:	9LQA017-0
Sampled:	11/30/06 15:52	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 18:59
Solids:	97.17	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDE	* 1	11.359	11.48286	0.124		1.3	7.41
4,4'-DDT	* 1	12.656	12.78071	0.125		1.4	6.9
4,4'-DDE	2	11.366	11.47543	0.109		1.4	7.41
4,4'-DDT	2	12.659	12.77157	0.113		1.5	6.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02	File ID:	9LUA038-0
Sampled:	11/30/06 16:00	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 03:54
Solids:	89.63	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
beta-BHC	* 1	8.613	8.816429	0.203		0.0030	83.5
delta-BHC	* 1	8.951	9.124286	0.173		0.0023	157
Endrin	* 1	12.049	12.26457	0.216		0.049	132
Endosulfan II	* 1	12.4	12.60057	0.201		0.010	123
Endosulfan sulfate	* 1	13.631	13.853	0.222		0.0072	90.1
beta-BHC	2	8.523	8.687429	0.164		0.0073	83.5
delta-BHC	2	8.97	9.180286	0.21		0.019	157
Endrin	2	11.912	12.121	0.209		0.24	132
Endosulfan II	2	12.227	12.43571	0.209		0.042	123
Endosulfan sulfate	2	13.141	13.32643	0.185		0.019	90.1
2,4,5,6-TCMX	* 1	6.636	6.848286	0.212		0.0095	108
2,4,5,6-TCMX	2	6.372	6.564286	0.192		0.032	108
DBC	* 1	13.92	14.10214	0.182		0.27	155
DBC	2	13.733	13.90914	0.176		0.034	155

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02RE1	File ID:	9LPA014-0
Sampled:	11/30/06 16:00	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 18:45
Solids:	89.63	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Heptachlor	* 1	9.349	9.463429	0.114		0.19	11.1
Heptachlor epoxide	* 1	10.846	10.95643	0.11		~~0.28~~	168
Chlordane-gamma	* 1	11.035	11.14771	0.113		1.0	18.2
Chlordane-alpha	* 1	11.214	11.34971	0.136		0.56	11.8
Heptachlor	2	9.136	9.237571	0.102		0.17	11.1
Heptachlor epoxide	2	10.576	10.67843	0.102		0.024	168
Chlordane-gamma	2	10.871	10.97329	0.102		1.2	18.2
Chlordane-alpha	2	11.092	11.19143	0.0994		0.63	11.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02RE2	File ID:	9LPA019-0
Sampled:	11/30/06 16:00	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 20:54
Solids:	89.63	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDE	* 1	11.375	11.48286	0.108		2.3	4.44
4,4'-DDE	2	11.38	11.47543	0.0954		2.2	4.44

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB110-05-113006

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02RE3	File ID:	9A3A019-0
Sampled:	11/30/06 16:00	Prepared:	12/08/06 09:31	Analyzed:	01/03/07 18:54
Solids:	89.63	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDD	* 1	12.15	12.37786	0.228		55	7.02
4,4'-DDT	* 1	12.552	12.78071	0.229		59	1.71
4,4'-DDD	2	12.121	12.32514	0.204		59	7.02
4,4'-DDT	2	12.566	12.77157	0.206		58	1.71

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-DU02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-03	File ID:	9LUA037-0
Sampled:	12/01/06 00:00	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 03:28
Solids:	96.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
alpha-BHC	* 1	7.814	8.023286	0.209		0.00087	13.5
gamma-BHC	* 1	8.417	8.628	0.211		0.00056	26.4
Heptachlor epoxide	* 1	10.747	10.95643	0.209		0.0018	48.3
Chlordane-gamma	* 1	10.941	11.14771	0.207		0.0059	22.6
Chlordane-alpha	* 1	11.141	11.34971	0.209		0.0053	18.6
4,4'-DDE	* 1	11.282	11.48286	0.201		0.032	3.17
Endrin	* 1	12.054	12.26457	0.211		0.00080	9.15
4,4'-DDD	* 1	12.175	12.37786	0.203		0.011	8.7
Endrin aldehyde	1	12.954	13.21929	0.265		0.0015	
Methoxychlor	1	13.324	13.48543	0.161		0.0056	NOT CONFIRMED
Endosulfan sulfate	* 1	13.65	13.853	0.203		0.00042	
Endrin ketone	* 1	14.038	14.25229	0.214		0.0011	24
alpha-BHC	2	7.649	7.838	0.189		0.00076	13.5
gamma-BHC	2	8.308	8.497428	0.189		0.00073	26.4
Heptachlor epoxide	2	10.491	10.67843	0.187		0.0011	48.3
Chlordane-gamma	2	10.785	10.97329	0.188		0.0047	22.6
Chlordane-alpha	2	11.008	11.19143	0.183		0.0044	18.6
4,4'-DDE	2	11.296	11.47543	0.179		0.031	3.17
Endrin	2	11.928	12.121	0.193		0.00073	9.15
4,4'-DDD	2	12.144	12.32514	0.181		0.012	8.7
Endrin ketone	2	13.892	14.08214	0.19		0.0014	24
2,4,5,6-TCMX	* 1	6.637	6.848286	0.211		0.028	0
2,4,5,6-TCMX	2	6.372	6.564286	0.192		0.028	0
DBC	* 1	13.905	14.10214	0.197		0.031	6.67
DBC	2	13.735	13.90914	0.174		0.029	6.67

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-DU02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-03RE1	File ID:	9LPA017-0
Sampled:	12/01/06 00:00	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 20:02
Solids:	96.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
beta-BHC	* 1	8.705	8.816429	0.111		0.42	2.35
delta-BHC	* 1	9.011	9.124286	0.113		0.43	0
4,4'-DDT	* 1	12.673	12.78071	0.108		0.21	4.65
beta-BHC	2	8.589	8.687429	0.0984		0.43	2.35
delta-BHC	2	9.082	9.180286	0.0983		0.43	0
4,4'-DDT	2	12.675	12.77157	0.0966		0.22	4.65
2,4,5,6-TCMX	* 1	6.73	6.848286	0.118		0.025	12.8
2,4,5,6-TCMX	2	6.46	6.564286	0.104		0.022	12.8
DBC	* 1	13.995	14.10214	0.107		0.026	0
DBC	2	13.814	13.90914	0.0951		0.026	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-DU03-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-04	File ID:	9LUA034-0
Sampled:	12/01/06 00:00	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 02:11
Solids:	94.44	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	10.94	11.14771	0.208		0.0017	26.7
Chlordane-alpha	* 1	11.139	11.34971	0.211		0.0014	0
4,4'-DDE	* 1	11.281	11.48286	0.202		0.0038	2.67
Endosulfan I	* 1	11.367	11.55586	0.189		0.00039	
Dieldrin	* 1	11.708	11.91886	0.211		0.00042	15.4
4,4'-DDD	* 1	12.174	12.37786	0.204		0.00067	34.6
Endosulfan II	* 1	12.377	12.60057	0.224		0.0011	8.7
4,4'-DDT	* 1	12.577	12.78071	0.204		0.0064	3.08
Chlordane-gamma	2	10.783	10.97329	0.19		0.0013	26.7
Chlordane-alpha	2	11.006	11.19143	0.185		0.0014	0
4,4'-DDE	2	11.294	11.47543	0.181		0.0037	2.67
Dieldrin	2	11.483	11.67429	0.191		0.00049	15.4
4,4'-DDD	2	12.141	12.32514	0.184		0.00095	34.6
Endosulfan II	2	12.266	12.43571	0.17		0.0012	8.7
4,4'-DDT	2	12.59	12.77157	0.182		0.0066	3.08
2,4,5,6-TCMX	* 1	6.637	6.848286	0.211		0.026	3.92
2,4,5,6-TCMX	2	6.372	6.564286	0.192		0.025	3.92
DBC	* 1	13.905	14.10214	0.197		0.026	3.92
DBC	2	13.735	13.90914	0.174		0.025	3.92

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB078-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-05	File ID:	9LUA035-0
Sampled:	12/01/06 12:26	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 02:37
Solids:	96.37	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
alpha-BHC	* 1	7.787	8.023286	0.236		0.00024	15.4
delta-BHC	* 1	8.918	9.124286	0.206		0.00048	78.5
Chlordane-gamma	* 1	10.94	11.14771	0.208		0.00076	14.1
Chlordane-alpha	* 1	11.119	11.34971	0.231		0.00038	104
4,4'-DDE	* 1	11.281	11.48286	0.202		0.013	7.41
4,4'-DDD	* 1	12.174	12.37786	0.204		0.0034	30.5
4,4'-DDT	* 1	12.577	12.78071	0.204		0.014	6.9
Methoxychlor	* 1	13.289	13.48543	0.196		0.00045	
Endosulfan sulfate	* 1	13.6	13.853	0.253		0.00045	
alpha-BHC	2	7.611	7.838	0.227		0.00028	15.4
delta-BHC	2	8.967	9.180286	0.213		0.0011	78.5
Chlordane-gamma	2	10.782	10.97329	0.191		0.00066	14.1
Chlordane-alpha	2	11.004	11.19143	0.187		0.0012	104
4,4'-DDE	2	11.295	11.47543	0.18		0.014	7.41
Dieldrin	2	11.452	11.67429	0.222		0.00097	
Endrin	2	11.919	12.121	0.202		0.00042	
4,4'-DDD	2	12.143	12.32514	0.182		0.0025	30.5
4,4'-DDT	2	12.59	12.77157	0.182		0.015	6.9
Endrin aldehyde	2	12.717	12.927	0.21		0.00021	
2,4,5,6-TCMX	* 1	6.637	6.848286	0.211		0.027	3.77
2,4,5,6-TCMX	2	6.373	6.564286	0.191		0.026	3.77
DBC	* 1	13.905	14.10214	0.197		0.030	6.9
DBC	2	13.735	13.90914	0.174		0.028	6.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB078-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-06	File ID:	9LUA036-0
Sampled:	12/01/06 12:33	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 03:03
Solids:	90.91	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	10.944	11.14771	0.204		0.00026	
4,4'-DDT	* 1	12.578	12.78071	0.203		0.00037	25.9
4,4'-DDT	2	12.59	12.77157	0.182		0.00048	25.9
2,4,5,6-TCMX	* 1	6.636	6.848286	0.212		0.028	3.64
2,4,5,6-TCMX	2	6.372	6.564286	0.192		0.027	3.64
DBC	* 1	13.905	14.10214	0.197		0.029	3.51
DBC	2	13.735	13.90914	0.174		0.028	3.51

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB079-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-07	File ID:	9LEA025-0
Sampled:	12/01/06 12:11	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 01:22
Solids:	94.83	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Heptachlor epoxide	* 1	10.97	10.95643	0.0136		0.0034	6.06
Chlordane-gamma	* 1	11.162	11.14771	0.0143		0.017	11.1
Chlordane-alpha	* 1	11.339	11.34971	0.0107		0.019	27.3
4,4'-DDE	* 1	11.495	11.48286	0.0121		0.012	8.7
Dieldrin	* 1	11.933	11.91886	0.0141		0.0023	19
4,4'-DDD	* 1	12.388	12.37786	0.0101		0.00063	28.6
Heptachlor epoxide	2	10.691	10.67843	0.0126		0.0032	6.06
Chlordane-gamma	2	10.984	10.97329	0.0107		0.019	11.1
Chlordane-alpha	2	11.204	11.19143	0.0126		0.025	27.3
4,4'-DDE	2	11.488	11.47543	0.0126		0.011	8.7
Dieldrin	2	11.686	11.67429	0.0117		0.0019	19
4,4'-DDD	2	12.34	12.32514	0.0149		0.00084	28.6
Endosulfan sulfate	2	13.334	13.32643	0.00757		0.00042	
2,4,5,6-TCMX	* 1	6.858	6.848286	0.00971		0.023	4.26
2,4,5,6-TCMX	2	6.574	6.564286	0.00971		0.024	4.26
DBC	* 1	14.115	14.10214	0.0129		0.023	4.44
DBC	2	13.921	13.90914	0.0119		0.022	4.44

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB079-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-07RE1	File ID:	9AJA014-0
Sampled:	12/01/06 12:11	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 21:56
Solids:	94.83	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	* 1	12.409	12.78071	0.372		0.0035	2.82
Methoxychlor	* 1	13.124	13.48543	0.361		0.00046	119
4,4'-DDT	2	12.429	12.77157	0.343		0.0036	2.82
Methoxychlor	2	13.444	13.77371	0.33		0.0018	119
2,4,5,6-TCMX	* 1	6.458	6.848286	0.39		0.028	3.64
2,4,5,6-TCMX	2	6.202	6.564286	0.362		0.027	3.64
DBC	* 1	13.738	14.10214	0.364		0.025	3.92
DBC	2	13.576	13.90914	0.333		0.026	3.92

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB079-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-08RE1	File ID:	9LOA008-0
Sampled:	12/01/06 12:18	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 14:13
Solids:	88.13	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	11.057	11.14771	0.0907		0.00034	11.1
Chlordane-alpha	* 1	11.25	11.34971	0.0997		0.00064	18.8
4,4'-DDT	* 1	12.694	12.78071	0.0867		0.00015	23.5
Endrin aldehyde	* 1	13.063	13.21929	0.156		0.00076	3.87
Chlordane-gamma	2	10.888	10.97329	0.0853		0.00038	11.1
Chlordane-alpha	2	11.11	11.19143	0.0814		0.00053	18.8
4,4'-DDT	2	12.693	12.77157	0.0786		0.00019	23.5
Endrin aldehyde	2	12.914	12.927	0.013		0.00079	3.87
2,4,5,6-TCMX	* 1	6.754	6.848286	0.0943		0.029	3.51
2,4,5,6-TCMX	2	6.48	6.564286	0.0843		0.028	3.51
DBC	* 1	14.015	14.10214	0.0871		0.030	3.39
DBC	2	13.832	13.90914	0.0771		0.029	3.39

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB080-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-09	File ID:	9LEA027-0
Sampled:	12/01/06 09:12	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 02:13
Solids:	96.54	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	11.161	11.14771	0.0133		0.00038	30.3
Chlordane-alpha	* 1	11.34	11.34971	0.00971		0.00045	0
Chlordane-gamma	2	10.983	10.97329	0.00971		0.00028	30.3
Chlordane-alpha	2	11.203	11.19143	0.0116		0.00045	0
2,4,5,6-TCMX	* 1	6.858	6.848286	0.00971		0.021	4.65
2,4,5,6-TCMX	2	6.574	6.564286	0.00971		0.022	4.65
DBC	* 1	14.116	14.10214	0.0139		0.024	0
DBC	2	13.921	13.90914	0.0119		0.024	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB080-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-09RE1	File ID:	9AJA015-0
Sampled:	12/01/06 09:12	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 22:22
Solids:	96.54	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	* 1	12.411	12.78071	0.37		0.00028	0
4,4'-DDT	2	12.431	12.77157	0.341		0.00028	0
2,4,5,6-TCMX	* 1	6.459	6.848286	0.389		0.026	3.92
2,4,5,6-TCMX	2	6.203	6.564286	0.361		0.025	3.92
DBC	* 1	13.74	14.10214	0.362		0.028	3.64
DBC	2	13.577	13.90914	0.332		0.027	3.64

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB080-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-10	File ID:	9LEA028-0
Sampled:	12/01/06 09:39	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 02:39
Solids:	90.60	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Heptachlor	* 1	9.475	9.463429	0.0116		0.00029	12.9
Heptachlor epoxide	1	10.973	10.95643	0.0166		0.0015	
Chlordane-gamma	* 1	11.161	11.14771	0.0133		0.010	9.52
Chlordane-alpha	* 1	11.343	11.34971	0.00671		0.0077	11
4,4'-DDE	* 1	11.495	11.48286	0.0121		0.00077	9.52
Heptachlor	2	9.249	9.237571	0.0114		0.00033	12.9
Chlordane-gamma	2	10.985	10.97329	0.0117		0.011	9.52
Chlordane-alpha	2	11.204	11.19143	0.0126		0.0086	11
4,4'-DDE	2	11.488	11.47543	0.0126		0.00070	9.52
2,4,5,6-TCMX	* 1	6.858	6.848286	0.00971		0.020	4.88
2,4,5,6-TCMX	2	6.573	6.564286	0.00871		0.021	4.88
DBC	* 1	14.116	14.10214	0.0139		0.023	0
DBC	2	13.922	13.90914	0.0129		0.023	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB080-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-10RE1	File ID:	9AJA016-0
Sampled:	12/01/06 09:39	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 22:48
Solids:	90.60	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Endosulfan I	* 1	11.214	11.55586	0.342		0.00040	31.6
4,4'-DDT	* 1	12.41	12.78071	0.371		0.00096	4.26
Endosulfan I	2	10.88	11.26443	0.384		0.00055	31.6
4,4'-DDT	2	12.43	12.77157	0.342		0.00092	4.26
2,4,5,6-TCMX	* 1	6.459	6.848286	0.389		0.025	4.08
2,4,5,6-TCMX	2	6.203	6.564286	0.361		0.024	4.08
DBC	* 1	13.739	14.10214	0.363		0.027	0
DBC	2	13.576	13.90914	0.333		0.027	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB081-02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-11	File ID:	9LEA029-0
Sampled:	12/01/06 10:25	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 03:05
Solids:	71.02	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m,32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	11.162	11.14771	0.0143		0.00070	13.7
Chlordane-alpha	* 1	11.363	11.34971	0.0133		0.00056	8.55
4,4'-DDE	* 1	11.496	11.48286	0.0131		0.0023	4.44
4,4'-DDT	* 1	12.795	12.78071	0.0143		0.0011	8.7
Chlordane-gamma	2	10.985	10.97329	0.0117		0.00061	13.7
Chlordane-alpha	2	11.204	11.19143	0.0126		0.00061	8.55
4,4'-DDE	2	11.487	11.47543	0.0116		0.0022	4.44
4,4'-DDT	2	12.783	12.77157	0.0114		0.0012	8.7
2,4,5,6-TCMX	* 1	6.858	6.848286	0.00971		0.028	6.9
2,4,5,6-TCMX	2	6.574	6.564286	0.00971		0.030	6.9
DBC	* 1	14.116	14.10214	0.0139		0.033	3.08
DBC	2	13.921	13.90914	0.0119		0.032	3.08

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB081-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-12	File ID:	9LEA030-0
Sampled:	12/01/06 10:32	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 03:31
Solids:	80.58	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	6.856	6.848286	0.00771		0.024	4.08
2,4,5,6-TCMX	2	6.573	6.564286	0.00871		0.025	4.08
DBC	* 1	14.115	14.10214	0.0129		0.031	3.28
DBC	2	13.92	13.90914	0.0109		0.030	3.28

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB081-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-12RE1	File ID:	9AJA017-0
Sampled:	12/01/06 10:32	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 23:14
Solids:	80.58	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	* 1	12.409	12.78071	0.372		0.00066	5.88
4,4'-DDT	2	12.428	12.77157	0.344		0.00070	5.88
2,4,5,6-TCMX	* 1	6.457	6.848286	0.391		0.030	3.39
2,4,5,6-TCMX	2	6.201	6.564286	0.363		0.029	3.39
DBC	* 1	13.738	14.10214	0.364		0.036	2.82
DBC	2	13.575	13.90914	0.334		0.035	2.82

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB082-02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-13RE1	File ID:	9LOA010-0
Sampled:	12/01/06 10:15	Prepared:	12/14/06 18:51	Analyzed:	12/20/06 15:05
Solids:	91.47	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Heptachlor epoxide		1	10.867	10.95643	0.0894		0.0033	93.3
4,4'-DDE	*	1	11.395	11.48286	0.0879		0.0081	2.44
Dieldrin	*	1	11.828	11.91886	0.0909		0.028	3.64
4,4'-DDT	*	1	12.694	12.78071	0.0867		0.0041	0
Endosulfan sulfate	*	1	13.762	13.853	0.091		0.00033	
Aldrin		2	9.687	9.759429	0.0724		0.00026	
Heptachlor epoxide	*	2	10.596	10.67843	0.0824		0.0012	93.3
4,4'-DDE		2	11.396	11.47543	0.0794		0.0083	2.44
Dieldrin		2	11.591	11.67429	0.0833		0.027	3.64
4,4'-DDT		2	12.692	12.77157	0.0796		0.0041	0
Endrin ketone		2	14.046	14.08214	0.0361		0.0012	
2,4,5,6-TCMX	*	1	6.753	6.848286	0.0953		0.032	3.17
2,4,5,6-TCMX		2	6.48	6.564286	0.0843		0.031	3.17
DBC	*	1	14.015	14.10214	0.0871		0.032	3.17
DBC		2	13.831	13.90914	0.0781		0.031	3.17

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB082-02-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-13RE2	File ID:	9LQA014-0
Sampled:	12/01/06 10:15	Prepared:	12/14/06 18:51	Analyzed:	12/22/06 17:42
Solids:	91.47	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L14027	Sequence:	BA00107		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	11.018	11.14771	0.13		0.14	0
Chlordane-alpha	* 1	11.22	11.34971	0.13		0.12	0
Chlordane-gamma	2	10.857	10.97329	0.116		0.14	0
Chlordane-alpha	2	11.078	11.19143	0.113		0.12	0
2,4,5,6-TCMX	* 1	6.716	6.848286	0.132		0.029	3.39
2,4,5,6-TCMX	2	6.446	6.564286	0.118		0.030	3.39
DBC	* 1	13.981	14.10214	0.121		0.030	0
DBC	2	13.802	13.90914	0.107		0.030	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB082-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-14	File ID:	9LEA032-0
Sampled:	12/01/06 10:21	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 04:23
Solids:	73.57	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	11.159	11.14771	0.0113		0.00032	
Chlordane-alpha	* 1	11.356	11.34971	0.00629		0.00036	
2,4,5,6-TCMX	* 1	6.856	6.848286	0.00771		0.025	0
2,4,5,6-TCMX	2	6.572	6.564286	0.00771		0.025	0
DBC	* 1	14.113	14.10214	0.0109		0.029	0
DBC	2	13.918	13.90914	0.00886		0.029	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB082-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-14RE1	File ID:	9AJB018-0
Sampled:	12/01/06 10:21	Prepared:	12/08/06 09:31	Analyzed:	01/15/07 23:40
Solids:	73.57	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	2	12.429	12.77157	0.343		0.00023	
2,4,5,6-TCMX	* 1	6.458	6.848286	0.39		0.031	3.28
2,4,5,6-TCMX	2	6.201	6.564286	0.363		0.030	3.28
DBC	* 1	13.738	14.10214	0.364		0.034	0
DBC	2	13.575	13.90914	0.334		0.034	0

* Column used for quantitation

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00124	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00124-PEM1	9LEA013-0	12/11/06 20:10
Performance Mix	BA00124-PEM1	9LEB013-0	12/11/06 20:10
Calibration Check	BA00124-CCV1	9LEA024-0	12/12/06 00:56
Calibration Check	BA00124-CCV1	9LEB024-0	12/12/06 00:56
JAX47-SB079-01-120106	B610375-07	9LEB025-0	12/12/06 01:22
JAX47-SB079-01-120106	B610375-07	9LEA025-0	12/12/06 01:22
JAX47-SB080-01-120106	B610375-09	9LEA027-0	12/12/06 02:13
JAX47-SB080-01-120106	B610375-09	9LEB027-0	12/12/06 02:13
JAX47-SB080-05-120106	B610375-10	9LEA028-0	12/12/06 02:39
JAX47-SB080-05-120106	B610375-10	9LEB028-0	12/12/06 02:39
JAX47-SB081-02-120106	B610375-11	9LEB029-0	12/12/06 03:05
JAX47-SB081-02-120106	B610375-11	9LEA029-0	12/12/06 03:05
JAX47-SB081-05-120106	B610375-12	9LEB030-0	12/12/06 03:31
JAX47-SB081-05-120106	B610375-12	9LEA030-0	12/12/06 03:31
JAX47-SB082-05-120106	B610375-14	9LEB032-0	12/12/06 04:23
JAX47-SB082-05-120106	B610375-14	9LEA032-0	12/12/06 04:23
JAX47-SB083-01-120106	B610375-15	9LEB033-0	12/12/06 04:49
JAX47-SB083-01-120106	B610375-15	9LEA033-0	12/12/06 04:49
JAX47-SB083-05-120106	B610375-16	9LEB034-0	12/12/06 05:15
JAX47-SB083-05-120106	B610375-16	9LEA034-0	12/12/06 05:15
Calibration Check	BA00124-CCV2	9LEB035-0	12/12/06 05:41
Calibration Check	BA00124-CCV2	9LEA035-0	12/12/06 05:41

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-15	File ID:	9LEA033-0
Sampled:	12/01/06 09:52	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 04:49
Solids:	93.90	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
beta-BHC	* 1	8.826	8.816429	0.00957		0.0014	65.4
Heptachlor	* 1	9.475	9.463429	0.0116		0.00096	13.6
Heptachlor epoxide	* 1	10.966	10.95643	0.00957		0.015	102
Dieldrin	* 1	11.938	11.91886	0.0191		0.011	28
4,4'-DDD	* 1	12.389	12.37786	0.0111		0.055	125
Endosulfan sulfate	* 1	13.872	13.853	0.019		0.00050	133
beta-BHC	2	8.697	8.687429	0.00957		0.00071	65.4
Heptachlor	2	9.249	9.237571	0.0114		0.0011	13.6
Heptachlor epoxide	2	10.647	10.67843	0.0314		0.046	102
Chlordane-gamma	2	10.976	10.97329	0.00271		0.13	32.3
Dieldrin	2	11.683	11.67429	0.00871		0.0083	28
4,4'-DDD	2	12.312	12.32514	0.0131		0.24	125
Endosulfan sulfate	2	13.34	13.32643	0.0136		0.0025	133
2,4,5,6-TCMX	* 1	6.855	6.848286	0.00671		0.026	0
2,4,5,6-TCMX	2	6.571	6.564286	0.00671		0.026	0
DBC	* 1	14.114	14.10214	0.0119		0.034	2.99
DBC	2	13.921	13.90914	0.0119		0.033	2.99

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-15RE1	File ID:	9LPA015-0
Sampled:	12/01/06 09:52	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 19:11
Solids:	93.90	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	11.034	11.14771	0.114		0.30	3.28
Chlordane-alpha	* 1	11.232	11.34971	0.118		0.21	9.09
4,4'-DDE	* 1	11.375	11.48286	0.108		0.13	0
Chlordane-gamma	2	10.871	10.97329	0.102		0.31	3.28
Chlordane-alpha	2	11.093	11.19143	0.0984		0.23	9.09
4,4'-DDE	2	11.38	11.47543	0.0954		0.13	0
2,4,5,6-TCMX	* 1	6.73	6.848286	0.118		0.028	3.51
2,4,5,6-TCMX	2	6.461	6.564286	0.103		0.029	3.51
DBC	* 1	13.995	14.10214	0.107		0.040	22.2
DBC	2	13.814	13.90914	0.0951		0.032	22.2

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-15RE2	File ID:	9LQA024-0
Sampled:	12/01/06 09:52	Prepared:	12/08/06 09:31	Analyzed:	12/22/06 22:34
Solids:	93.90	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	* 1	12.643	12.78071	0.138		1.2	8
4,4'-DDT	2	12.646	12.77157	0.126		1.3	8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB083-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-15RE3	File ID:	9AJA019-0
Sampled:	12/01/06 09:52	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 00:06
Solids:	93.90	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Endosulfan I	* 1	11.215	11.55586	0.341		0.0072	16.6
Endosulfan I	2	10.878	11.26443	0.386		0.0085	16.6
2,4,5,6-TCMX	* 1	6.458	6.848286	0.39		0.032	6.45
2,4,5,6-TCMX	2	6.201	6.564286	0.363		0.030	6.45
DBC	* 1	13.738	14.10214	0.364		0.042	12.7
DBC	2	13.574	13.90914	0.335		0.037	12.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB083-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-16	File ID:	9LEA034-0
Sampled:	12/01/06 09:58	Prepared:	12/08/06 09:31	Analyzed:	12/12/06 05:15
Solids:	94.21	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
beta-BHC	* 1	8.825	8.816429	0.00857		0.00071	5.8
Chlordane-gamma	* 1	11.158	11.14771	0.0103		0.014	0
Chlordane-alpha	* 1	11.355	11.34971	0.00529		0.011	12.6
4,4'-DDE	* 1	11.492	11.48286	0.00914		0.0077	3.97
Dieldrin	* 1	11.931	11.91886	0.0121		0.00081	8.28
4,4'-DDD	* 1	12.387	12.37786	0.00914		0.0039	158
Endrin aldehyde	* 1	13.246	13.21929	0.0267		0.00057	92.3
Endrin ketone	1	14.26	14.25229	0.00771		0.00071	
beta-BHC	2	8.696	8.687429	0.00857		0.00067	5.8
Chlordane-gamma	2	10.981	10.97329	0.00771		0.014	0
Chlordane-alpha	2	11.2	11.19143	0.00857		0.0097	12.6
4,4'-DDE	2	11.484	11.47543	0.00857		0.0074	3.97
Dieldrin	2	11.681	11.67429	0.00671		0.00088	8.28
Endrin	2	12.15	12.121	0.029		0.0011	
4,4'-DDD	2	12.322	12.32514	0.00314		0.033	158
Endosulfan II	2	12.418	12.43571	0.0177		0.00025	
Endrin aldehyde	2	12.948	12.927	0.021		0.00021	92.3
2,4,5,6-TCMX	* 1	6.855	6.848286	0.00671		0.028	3.51
2,4,5,6-TCMX	2	6.571	6.564286	0.00671		0.029	3.51
DBC	* 1	14.112	14.10214	0.00986		0.031	3.28
DBC	2	13.918	13.90914	0.00886		0.030	3.28

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB083-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-16RE1	File ID:	9AJA020-0
Sampled:	12/01/06 09:58	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 00:31
Solids:	94.21	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Endosulfan I	* 1	11.215	11.55586	0.341		0.00032	102
4,4'-DDT	* 1	12.409	12.78071	0.372		0.025	0
Methoxychlor	* 1	13.096	13.48543	0.389		0.0011	34
Endosulfan I	2	10.88	11.26443	0.384		0.00099	102
4,4'-DDT	2	12.428	12.77157	0.344		0.025	0
Methoxychlor	2	13.418	13.77371	0.356		0.00078	34
2,4,5,6-TCMX	* 1	6.459	6.848286	0.389		0.036	5.71
2,4,5,6-TCMX	2	6.202	6.564286	0.362		0.034	5.71
DBC	* 1	13.738	14.10214	0.364		0.036	0
DBC	2	13.575	13.90914	0.334		0.036	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB087-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-17	File ID:	9LVA011-0
Sampled:	12/01/06 10:40	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 14:47
Solids:	70.89	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
alpha-BHC	* 1	7.816	8.023286	0.207		0.00033	
gamma-BHC	* 1	8.411	8.628	0.217		0.00028	
beta-BHC	* 1	8.61	8.816429	0.206		0.0015	91.3
delta-BHC	* 1	8.913	9.124286	0.211		0.0011	9.52
Heptachlor epoxide	* 1	10.747	10.95643	0.209		0.0039	112
Chlordane-gamma	* 1	10.938	11.14771	0.21		0.011	0
Chlordane-alpha	* 1	11.121	11.34971	0.229		0.0099	10.5
Dieldrin	* 1	11.708	11.91886	0.211		0.083	2.44
Endrin	* 1	12.042	12.26457	0.223		0.00080	96.8
Methoxychlor	* 1	13.283	13.48543	0.202		0.0030	12.5
Endosulfan sulfate	1	13.645	13.853	0.208		0.0060	146
Endrin ketone	* 1	14.031	14.25229	0.221		0.00089	104
beta-BHC	2	8.502	8.687429	0.185		0.00056	91.3
delta-BHC	2	8.992	9.180286	0.188		0.0010	9.52
Aldrin	2	9.561	9.759429	0.198		0.0014	
Heptachlor epoxide	2	10.489	10.67843	0.189		0.0011	112
Chlordane-gamma	2	10.782	10.97329	0.191		0.011	0
Chlordane-alpha	2	11.006	11.19143	0.185		0.011	10.5
Dieldrin	2	11.484	11.67429	0.19		0.081	2.44
Endrin	2	11.934	12.121	0.187		0.0023	96.8
Methoxychlor	2	13.61	13.77371	0.164		0.0034	12.5
Endosulfan sulfate	* 2	13.138	13.32643	0.188		0.00094	146
Endrin ketone	2	13.901	14.08214	0.181		0.0028	104
2,4,5,6-TCMX	* 1	6.635	6.848286	0.213		0.030	6.9
2,4,5,6-TCMX	2	6.371	6.564286	0.193		0.028	6.9
DBC	* 1	13.903	14.10214	0.199		0.035	18.8
DBC	2	13.733	13.90914	0.176		0.029	18.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB087-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-17RE1	File ID:	9LPA018-0
Sampled:	12/01/06 10:40	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 20:28
Solids:	70.89	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDE	* 1	11.375	11.48286	0.108		0.51	1.94
Endosulfan II	* 1	12.463	12.60057	0.138		0.22	
4,4'-DDE	2	11.38	11.47543	0.0954		0.52	1.94
2,4,5,6-TCMX	* 1	6.73	6.848286	0.118		0.027	3.64
2,4,5,6-TCMX	2	6.462	6.564286	0.102		0.028	3.64
DBC	* 1	13.994	14.10214	0.108		0.032	13.3
DBC	2	13.815	13.90914	0.0941		0.028	13.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB087-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-17RE2	File ID:	9LQA025-0
Sampled:	12/01/06 10:40	Prepared:	12/08/06 09:31	Analyzed:	12/22/06 23:00
Solids:	70.89	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	* 1	12.641	12.78071	0.14		3.8	2.6
4,4'-DDT	2	12.646	12.77157	0.126		3.9	2.6

* Column used for quantitation

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00093	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00093-IBL1	9A3B014-0	01/03/07 16:45
Instrument Blank	BA00093-IBL1	9A3A014-0	01/03/07 16:45
Performance Mix	BA00093-PEM1	9A3B015-0	01/03/07 17:11
Performance Mix	BA00093-PEM1	9A3A015-0	01/03/07 17:11
Calibration Check	BA00093-CCV1	9A3B016-0	01/03/07 17:36
Calibration Check	BA00093-CCV1	9A3A016-0	01/03/07 17:36
JAX47-SB110-05-113006	B610375-02RE3	9A3B019-0	01/03/07 18:54
JAX47-SB110-05-113006	B610375-02RE3	9A3A019-0	01/03/07 18:54
Calibration Check	BA00093-CCV2	9A3A020-0	01/03/07 19:20
Calibration Check	BA00093-CCV2	9A3B020-0	01/03/07 19:20
Instrument Blank	BA00093-IBL2	9LPB001-0	12/21/06 13:08
Instrument Blank	BA00093-IBL2	9LPA001-0	12/21/06 13:08
Performance Mix	BA00093-PEM2	9LPA002-0	12/21/06 13:34
Performance Mix	BA00093-PEM2	9LPB002-0	12/21/06 13:34
Calibration Check	BA00093-CCV3	9LPA013-0	12/21/06 18:19
Calibration Check	BA00093-CCV3	9LPB013-0	12/21/06 18:19
JAX47-SB110-05-113006 X	B610375-02RE1	9LPA014-0	12/21/06 18:45
JAX47-SB110-05-113006 X	B610375-02RE1	9LPB014-0	12/21/06 18:45
JAX47-SB083-01-120106 X	B610375-15RE1	9LPB015-0	12/21/06 19:11
JAX47-SB083-01-120106 X	B610375-15RE1	9LPA015-0	12/21/06 19:11
JAX47-SB087-05-120106 4-DCT	B610375-18RE1	9LPB016-0	12/21/06 19:36
JAX47-SB087-05-120106	B610375-18RE1	9LPA016-0	12/21/06 19:36
JAX47-DU02-120106 4-DCT	B610375-03RE1	9LPB017-0	12/21/06 20:02
JAX47-DU02-120106	B610375-03RE1	9LPA017-0	12/21/06 20:02
JAX47-SB087-01-120106 X	B610375-17RE1	9LPB018-0	12/21/06 20:28
JAX47-SB087-01-120106 X	B610375-17RE1	9LPA018-0	12/21/06 20:28
JAX47-SB110-05-113006 X	B610375-02RE2	9LPA019-0	12/21/06 20:54
JAX47-SB110-05-113006 X	B610375-02RE2	9LPB019-0	12/21/06 20:54
Calibration Check	BA00093-CCV4	9LPB020-0	12/21/06 21:20
Calibration Check	BA00093-CCV4	9LPA020-0	12/21/06 21:20
Instrument Blank	BA00093-IBL3	9LQB020-0	12/22/06 20:51
Instrument Blank	BA00093-IBL3	9LQA020-0	12/22/06 20:51

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB087-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-18	File ID:	9LVA010-0
Sampled:	12/01/06 10:48	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 14:21
Solids:	76.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	10.939	11.14771	0.209		0.0013	32.3
Chlordane-alpha	* 1	11.121	11.34971	0.229		0.0011	9.52
4,4'-DDE	* 1	11.28	11.48286	0.203		0.044	4.44
Dieldrin	* 1	11.707	11.91886	0.212		0.0063	4.65
4,4'-DDD	* 1	12.173	12.37786	0.205		0.0051	22.6
Endosulfan II	* 1	12.372	12.60057	0.229		0.039	
beta-BHC	2	8.5	8.687429	0.187		0.00048	
Chlordane-gamma	2	10.78	10.97329	0.193		0.0018	32.3
Chlordane-alpha	2	11.005	11.19143	0.186		0.0010	9.52
4,4'-DDE	2	11.294	11.47543	0.181		0.046	4.44
Dieldrin	2	11.482	11.67429	0.192		0.0066	4.65
4,4'-DDD	2	12.142	12.32514	0.183		0.0064	22.6
2,4,5,6-TCMX	* 1	6.635	6.848286	0.213		0.054	3.77
2,4,5,6-TCMX	2	6.37	6.564286	0.194		0.052	3.77
DBC	* 1	13.902	14.10214	0.2		0.041	2.47
DBC	2	13.732	13.90914	0.177		0.040	2.47

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB087-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-18RE1	File ID:	9LPA016-0
Sampled:	12/01/06 10:48	Prepared:	12/08/06 09:31	Analyzed:	12/21/06 19:36
Solids:	76.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	* 1	12.673	12.78071	0.108		0.40	4.88
4,4'-DDT	2	12.674	12.77157	0.0976		0.42	4.88
2,4,5,6-TCMX	* 1	6.731	6.848286	0.117		0.051	0
2,4,5,6-TCMX	2	6.462	6.564286	0.102		0.051	0
DBC	* 1	13.996	14.10214	0.106		0.039	2.53
DBC	2	13.815	13.90914	0.0941		0.040	2.53

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB087-05-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-18RE2	File ID:	9AJA024-0
Sampled:	12/01/06 10:48	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 02:15
Solids:	76.03	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
2,4,5,6-TCMX	* 1	6.459	6.848286	0.389		0.059	7.02
2,4,5,6-TCMX	2	6.202	6.564286	0.362		0.055	7.02
DBC	* 1	13.739	14.10214	0.363		0.045	2.25
DBC	2	13.575	13.90914	0.334		0.044	2.25

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB088-03-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-19	File ID:	9LVA008-0
Sampled:	12/01/06 11:45	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 13:30
Solids:	90.16	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	10.941	11.14771	0.207		0.00030	
4,4'-DDE	* 1	11.278	11.48286	0.205		0.0051	1.98
4,4'-DDE	2	11.293	11.47543	0.182		0.0050	1.98
4,4'-DDD	2	12.141	12.32514	0.184		0.00033	
2,4,5,6-TCMX	* 1	6.633	6.848286	0.215		0.033	3.08
2,4,5,6-TCMX	2	6.369	6.564286	0.195		0.032	3.08
DBC	* 1	13.901	14.10214	0.201		0.031	0
DBC	2	13.731	13.90914	0.178		0.031	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB088-03-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-19RE1	File ID:	9AJA021-0
Sampled:	12/01/06 11:45	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 00:57
Solids:	90.16	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	* 1	12.409	12.78071	0.372		0.0021	0
4,4'-DDT	2	12.428	12.77157	0.344		0.0021	0
2,4,5,6-TCMX	* 1	6.458	6.848286	0.39		0.035	2.9
2,4,5,6-TCMX	2	6.201	6.564286	0.363		0.034	2.9
DBC	* 1	13.738	14.10214	0.364		0.034	0
DBC	2	13.575	13.90914	0.334		0.034	0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB088-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-20	File ID:	9LVA009-0
Sampled:	12/01/06 11:59	Prepared:	12/08/06 09:31	Analyzed:	12/27/06 13:55
Solids:	91.26	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00093		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Chlordane-gamma	* 1	10.95	11.14771	0.198		0.00033	
4,4'-DDE	* 1	11.28	11.48286	0.203		0.0012	0
Endosulfan II	* 1	12.374	12.60057	0.227		0.00058	21
4,4'-DDE	2	11.295	11.47543	0.18		0.0012	0
4,4'-DDD	2	12.142	12.32514	0.183		0.00040	
Endosulfan II	2	12.264	12.43571	0.172		0.00047	21
2,4,5,6-TCMX	* 1	6.634	6.848286	0.214		0.023	4.44
2,4,5,6-TCMX	2	6.37	6.564286	0.194		0.022	4.44
DBC	* 1	13.902	14.10214	0.2		0.021	4.88
DBC	2	13.732	13.90914	0.177		0.020	4.88

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB088-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-20RE1	File ID:	9AJA022-0
Sampled:	12/01/06 11:59	Prepared:	12/08/06 09:31	Analyzed:	01/16/07 01:23
Solids:	91.26	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L08006	Sequence:	BA00124		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
4,4'-DDT	* 1	12.409	12.78071	0.372		0.0061	3.33
4,4'-DDT	2	12.429	12.77157	0.343		0.0059	3.33
2,4,5,6-TCMX	* 1	6.457	6.848286	0.391		0.024	4.26
2,4,5,6-TCMX	2	6.201	6.564286	0.363		0.023	4.26
DBC	* 1	13.739	14.10214	0.363		0.022	0
DBC	2	13.576	13.90914	0.333		0.022	0

* Column used for quantitation

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-012

Lab Sample ID	Client Sample ID
B610375-01	JAX47-SB110-01-113006
B610375-02	JAX47-SB110-05-113006
B610375-11	JAX47-SB081-02-120106
B610375-12	JAX47-SB081-05-120106
B610375-13	JAX47-SB082-02-120106
B610375-14	JAX47-SB082-01-120106
B610375-15	JAX47-SB083-01-120106
B610375-16	JAX47-SB083-05-120106

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Continuing Calibration Verification Standard 9AGA049 was outside and above the DoD QSM control limits for Beta-BHC and Delta-BHC. The method blank, matrix spike, matrix spike duplicate and laboratory control standard were all within the DoD control limits. Results associated with these standard/compounds are considered to be estimated bias high. The only sample affected was JAX47-SB110-05-113006.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 11:33:30 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By: **Chuck Metz**	Date: 12/01/2006	Time: 15:50	Received By: **Hand Deliver**	Date: 12/01/2006	Time: 16:50
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-012

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB110-01-113006	B610375-01
JAX47-SB110-05-113006	B610375-02
JAX47-SB110-05-113006	B610375-02RE1
JAX47-SB081-02-120106	B610375-11
JAX47-SB081-05-120106	B610375-12
JAX47-SB081-05-120106	B610375-12RE1
JAX47-SB082-02-120106	B610375-13
JAX47-SB082-05-120106	B610375-14
JAX47-SB083-01-120106	B610375-15
JAX47-SB083-05-120106	B610375-16

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.25 11:34:19 -05'00'

Name: Christina Tompkins

Date: 01/25/07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-012

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.001	0.05	ug/L
gamma-BHC	0.002	0.05	ug/L
beta-BHC	0.002	0.05	ug/L
delta-BHC	0.001	0.05	ug/L
Heptachlor	0.001	0.05	ug/L
Aldrin	0.002	0.05	ug/L
Heptachlor epoxide	0.001	0.05	ug/L
Chlordane-gamma	0.001	0.05	ug/L
Chlordane-alpha	0.001	0.05	ug/L
4,4′-DDE	0.002	0.05	ug/L
Endosulfan I	0.002	0.05	ug/L
Dieldrin	0.0008	0.05	ug/L
Endrin	0.002	0.05	ug/L
4,4′-DDD	0.0004	0.05	ug/L
Endosulfan II	0.002	0.05	ug/L
4,4′-DDT	0.002	0.05	ug/L
Endrin aldehyde	0.009	0.05	ug/L
Methoxychlor	0.003	0.05	ug/L
Endosulfan sulfate	0.002	0.05	ug/L
Endrin ketone	0.003	0.05	ug/L
Toxaphene	0.05	1	ug/L
alpha-BHC [2C]	0.001	0.05	ug/L
gamma-BHC [2C]	0.002	0.05	ug/L
beta-BHC [2C]	0.002	0.05	ug/L
delta-BHC [2C]	0.001	0.05	ug/L
Heptachlor [2C]	0.001	0.05	ug/L
Aldrin [2C]	0.002	0.05	ug/L
Heptachlor epoxide [2C]	0.001	0.05	ug/L
Chlordane-gamma [2C]	0.001	0.05	ug/L
Chlordane-alpha [2C]	0.001	0.05	ug/L
4,4'-DDE [2C]	0.002	0.05	ug/L
Endosulfan I [2C]	0.002	0.05	ug/L
Dieldrin [2C]	0.0008	0.05	ug/L
Endrin [2C]	0.002	0.05	ug/L
4,4'-DDD [2C]	0.0004	0.05	ug/L
Endosulfan II [2C]	0.002	0.05	ug/L
4,4'-DDT [2C]	0.002	0.05	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-012

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.009	0.05	ug/L
Methoxychlor [2C]	0.003	0.05	ug/L
Endosulfan sulfate [2C]	0.002	0.05	ug/L
Endrin ketone [2C]	0.003	0.05	ug/L
Toxaphene [2C]	0.05	1	ug/L

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB110-01-113006	11/30/06 15:52	12/01/06 16:50	12/19/06 18:02	*5	7.00	01/16/07 21:52	28.00	40.00	
JAX47-SB110-05-113006	11/30/06 16:00	12/01/06 16:50	12/19/06 18:02	*5	7.00	01/14/07 02:22	25.00	40.00	
JAX47-SB110-05-113006	11/30/06 16:00	12/01/06 16:50	12/19/06 18:02	*5	7.00	01/16/07 19:43	28.00	40.00	
JAX47-SB081-02-120106	12/01/06 10:25	12/01/06 16:50	12/19/06 18:02	*5	7.00	01/16/07 22:18	28.00	40.00	
JAX47-SB081-05-120106	12/01/06 10:32	12/01/06 16:50	12/19/06 18:02	*4	7.00	01/16/07 21:01	28.00	40.00	
JAX47-SB081-05-120106	12/01/06 10:32	12/01/06 16:50	12/19/06 18:02	*4	7.00	01/14/07 03:14	25.00	40.00	
JAX47-SB082-02-120106	12/01/06 10:15	12/01/06 16:50	12/19/06 18:02	*5	7.00	01/14/07 03:40	25.00	40.00	
JAX47-SB082-05-120106	12/01/06 10:21	12/01/06 16:50	12/19/06 18:02	*4	7.00	01/16/07 21:27	28.00	40.00	
JAX47-SB083-01-120106	12/01/06 09:52	12/01/06 16:50	12/19/06 18:02	*5	7.00	01/16/07 20:09	28.00	40.00	
JAX47-SB083-05-120106	12/01/06 09:58	12/01/06 16:50	12/19/06 18:02	*4	7.00	01/16/07 20:35	28.00	40.00	

* Method 1312 was leached on 12/14/06-12/15/06

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00172	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L21006-BLK1)			Lab File ID: 9AGA039-0		Analyzed: 01/14/07 00:13			
2,4,5,6-TCMX	1.00	83	25 - 140	6.475	6.475	0	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	82	25 - 140	6.218	6.218	0	+/-0.3	
DBC	1.00	88	30 - 135	13.753	13.755	-0.002	+/-0.3	
DBC [2C]	1.00	91	30 - 135	13.59	13.591	-0.001	+/-0.3	
JAX47-SB110-05-113006 (B610375-02)			Lab File ID: 9AGA044-0		Analyzed: 01/14/07 02:22			
2,4,5,6-TCMX	1.00	62	25 - 140	6.474	6.475	-0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	69	25 - 140	6.218	6.218	0	+/-0.3	
DBC	1.00	55	30 - 135	13.755	13.755	0	+/-0.3	
DBC [2C]	1.00	47	30 - 135	13.591	13.591	0	+/-0.3	
JAX47-SB081-05-120106 (B610375-12RE1)			Lab File ID: 9AGB046-0		Analyzed: 01/14/07 03:14			
2,4,5,6-TCMX	1.00	98	25 - 140	6.475	6.475	0	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	97	25 - 140	6.219	6.218	0.001	+/-0.3	
DBC	1.00	93	30 - 135	13.754	13.755	-0.001	+/-0.3	
DBC [2C]	1.00	93	30 - 135	13.591	13.591	0	+/-0.3	
JAX47-SB082-02-120106 (B610375-13)			Lab File ID: 9AGA047-0		Analyzed: 01/14/07 03:40			
2,4,5,6-TCMX	1.00	88	25 - 140	6.476	6.475	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	85	25 - 140	6.219	6.218	0.001	+/-0.3	
DBC	1.00	77	30 - 135	13.755	13.755	0	+/-0.3	
DBC [2C]	1.00	79	30 - 135	13.592	13.591	0.001	+/-0.3	
JAX47-SB083-01-120106 (B610375-15)			Lab File ID: 9AKA023-0		Analyzed: 01/16/07 20:09			
2,4,5,6-TCMX	1.00	98	25 - 140	6.442	6.441	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	94	25 - 140	6.186	6.184	0.002	+/-0.3	
DBC	1.00	90	30 - 135	13.721	13.722	-0.001	+/-0.3	
DBC [2C]	1.00	90	30 - 135	13.559	13.561	-0.002	+/-0.3	
JAX47-SB083-05-120106 (B610375-16)			Lab File ID: 9AKA024-0		Analyzed: 01/16/07 20:35			
2,4,5,6-TCMX	1.00	90	25 - 140	6.441	6.441	0	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	86	25 - 140	6.184	6.184	0	+/-0.3	
DBC	1.00	86	30 - 135	13.722	13.722	0	+/-0.3	
DBC [2C]	1.00	83	30 - 135	13.56	13.561	-0.001	+/-0.3	
JAX47-SB082-05-120106 (B610375-14)			Lab File ID: 9AKA026-0		Analyzed: 01/16/07 21:27			
2,4,5,6-TCMX	1.00	96	25 - 140	6.44	6.441	-0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	91	25 - 140	6.184	6.184	0	+/-0.3	
DBC	1.00	93	30 - 135	13.72	13.722	-0.001	+/-0.3	
DBC [2C]	1.00	91	30 - 135	13.557	13.561	-0.004	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00172	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-SB110-01-113006 (B610375-01)			Lab File ID: 9AKA027-0		Analyzed: 01/16/07 21:52			
2,4,5,6-TCMX	1.00	97	25 - 140	6.442	6.441	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	92	25 - 140	6.186	6.184	0.002	+/-0.3	
DBC	1.00	99	30 - 135	13.72	13.722	-0.001	+/-0.3	
DBC [2C]	1.00	96	30 - 135	13.559	13.561	-0.002	+/-0.3	
JAX47-SB081-02-120106 (B610375-11)			Lab File ID: 9AKA028-0		Analyzed: 01/16/07 22:18			
2,4,5,6-TCMX	1.00	74	25 - 140	6.443	6.441	0.002	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	72	25 - 140	6.187	6.184	0.003	+/-0.3	
DBC	1.00	64	30 - 135	13.723	13.722	0.001	+/-0.3	
DBC [2C]	1.00	64	30 - 135	13.561	13.561	0	+/-0.3	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L21006 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L21006-BLK1	9AGB039-0	12/19/06 18:02	
Blank	6L21006-BLK1	9AGA039-0	12/19/06 18:02	
LCS	6L21006-BS1	9AGB040-0	12/19/06 18:02	
LCS	6L21006-BS1	9AGA040-0	12/19/06 18:02	
JAX47-SB110-01-113006	6L21006-MS1	9AGB041-0	12/19/06 18:02	
JAX47-SB110-01-113006	6L21006-MS1	9AGA041-0	12/19/06 18:02	
JAX47-SB110-01-113006	6L21006-MSD1	9AGB042-0	12/19/06 18:02	
JAX47-SB110-01-113006	6L21006-MSD1	9AGA042-0	12/19/06 18:02	
JAX47-SB110-01-113006	B610375-01	9AKB027-0	12/19/06 18:02	
JAX47-SB110-01-113006	B610375-01	9AKA027-0	12/19/06 18:02	
JAX47-SB110-05-113006	B610375-02	9AGA044-0	12/19/06 18:02	
JAX47-SB110-05-113006	B610375-02	9AGB044-0	12/19/06 18:02	
JAX47-SB110-05-113006	B610375-02RE1	9AKB022-0	12/19/06 18:02	
JAX47-SB081-02-120106	B610375-11	9AKB028-0	12/19/06 18:02	
JAX47-SB081-02-120106	B610375-11	9AKA028-0	12/19/06 18:02	
JAX47-SB081-05-120106	B610375-12	9AKA025-0	12/19/06 18:02	
JAX47-SB081-05-120106	B610375-12	9AKB025-0	12/19/06 18:02	
JAX47-SB081-05-120106	B610375-12RE1	9AGB046-0	12/19/06 18:02	
JAX47-SB081-05-120106	B610375-12RE1	9AGA046-0	12/19/06 18:02	
JAX47-SB082-02-120106	B610375-13	9AGB047-0	12/19/06 18:02	
JAX47-SB082-02-120106	B610375-13	9AGA047-0	12/19/06 18:02	
JAX47-SB082-05-120106	B610375-14	9AKB026-0	12/19/06 18:02	
JAX47-SB082-05-120106	B610375-14	9AKA026-0	12/19/06 18:02	
JAX47-SB083-01-120106	B610375-15	9AKB023-0	12/19/06 18:02	
JAX47-SB083-01-120106	B610375-15	9AKA023-0	12/19/06 18:02	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L21006 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-SB083-05-120106	B610375-16	9AKB024-0	12/19/06 18:02	
JAX47-SB083-05-120106	B610375-16	9AKA024-0	12/19/06 18:02	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L21006-BLK1	File ID:	9AGA039-0
Prepared:	12/19/06 18:02	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/14/07 00:13	Instrument:	JSVGCECD2		
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4'-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4'-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4'-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.00	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L21006-BLK1	File ID:	9AGB039-0
Prepared:	12/19/06 18:02	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/14/07 00:13	Instrument:	JSVGCECD2		
Batch:	6L21006	Sequence:	BA00172	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.827	83	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.816	82	25 - 140	
DBC	1.00	0.881	88	30 - 135	
DBC [2C]	1.00	0.907	91	30 - 135	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21006	Laboratory ID:	6L21006-MS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	ND	1.04	104	60 - 130
gamma-BHC	1.00	ND	1.03	103	25 - 135
beta-BHC	1.00	0.0180	1.10	108	65 - 125
delta-BHC	1.00	ND	1.07	107	45 - 135
Heptachlor	1.00	ND	0.963	96	40 - 130
Aldrin	1.00	ND	0.940	94	25 - 140
Heptachlor epoxide	1.00	0.0230	0.998	98	60 - 130
Chlordane-gamma	1.00	0.00700	1.00	100	60 - 125
Chlordane-alpha	1.00	0.0740	1.08	101	65 - 125
4,4′-DDE	1.00	0.282	1.24	96	35 - 140
Endosulfan I	1.00	ND	0.877	88	50 - 110
Dieldrin	1.00	0.139	1.10	96	60 - 130
Endrin	1.00	0.0180	1.07	106	55 - 135
4,4′-DDD	1.00	0.0200	1.06	104	25 - 150
Endosulfan II	1.00	ND	0.771	77	30 - 130
4,4′-DDT	1.00	0.00500	1.26	126	45 - 140
Endrin aldehyde	1.00	ND	0.992	99	55 - 135
Methoxychlor	1.00	0.0200	0.970	95	55 - 150
Endosulfan sulfate	1.00	ND	1.03	103	55 - 135
Endrin ketone	1.00	0.0140	1.02	101	75 - 125
alpha-BHC [2C]	1.00	ND	1.04	104	60 - 130
gamma-BHC [2C]	1.00	ND	1.03	103	25 - 135
beta-BHC [2C]	1.00	0.0170	1.11	110	65 - 125
delta-BHC [2C]	1.00	ND	1.06	106	45 - 135
Heptachlor [2C]	1.00	ND	0.991	99	40 - 130
Aldrin [2C]	1.00	ND	0.980	98	25 - 140
Heptachlor epoxide [2C]	1.00	0.0180	1.02	101	60 - 130
Chlordane-gamma [2C]	1.00	0.0510	1.03	98	60 - 125
Chlordane-alpha [2C]	1.00	0.0660	1.02	96	65 - 125
4,4'-DDE [2C]	1.00	0.265	1.26	99	35 - 140
Endosulfan I [2C]	1.00	ND	0.911	91	50 - 110
Dieldrin [2C]	1.00	0.143	1.15	100	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21006	Laboratory ID:	6L21006-MS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	0.0160	1.10	109	55 - 135
4,4'-DDD [2C]	1.00	0.0280	1.07	104	25 - 150
Endosulfan II [2C]	1.00	ND	0.775	78	30 - 130
4,4'-DDT [2C]	1.00	0.203	1.28	108	45 - 140
Endrin aldehyde [2C]	1.00	ND	1.00	100	55 - 135
Methoxychlor [2C]	1.00	0.0140	1.03	102	55 - 150
Endosulfan sulfate [2C]	1.00	ND	1.05	105	55 - 135
Endrin ketone [2C]	1.00	0.0150	1.05	103	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	0.970	97	7	30	60 - 130
gamma-BHC	1.00	0.971	97	6	30	25 - 135
beta-BHC	1.00	1.04	103	5	30	65 - 125
delta-BHC	1.00	1.01	101	6	30	45 - 135
Heptachlor	1.00	0.893	89	8	30	40 - 130
Aldrin	1.00	0.868	87	8	30	25 - 140
Heptachlor epoxide	1.00	0.944	92	6	30	60 - 130
Chlordane-gamma	1.00	0.949	94	6	30	60 - 125
Chlordane-alpha	1.00	1.04	96	4	30	65 - 125
4,4'-DDE	1.00	1.20	92	3	30	35 - 140
Endosulfan I	1.00	0.820	82	7	30	50 - 110
Dieldrin	1.00	1.06	92	4	30	60 - 130
Endrin	1.00	1.02	100	5	30	55 - 135
4,4'-DDD	1.00	1.01	99	5	30	25 - 150
Endosulfan II	1.00	0.724	72	6	30	30 - 130
4,4'-DDT	1.00	1.22	122	3	30	45 - 140
Endrin aldehyde	1.00	0.942	94	5	30	55 - 135
Methoxychlor	1.00	0.922	90	5	30	55 - 150
Endosulfan sulfate	1.00	0.976	98	6	30	55 - 135
Endrin ketone	1.00	0.967	95	5	30	75 - 125
alpha-BHC [2C]	1.00	0.971	97	7	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21006
Laboratory ID: 6L21006-MSD1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX47-SB110-01-113006

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.972	97	6	30	25 - 135
beta-BHC [2C]	1.00	1.06	104	5	30	65 - 125
delta-BHC [2C]	1.00	1.00	100	6	30	45 - 135
Heptachlor [2C]	1.00	0.921	92	7	30	40 - 130
Aldrin [2C]	1.00	0.909	91	8	30	25 - 140
Heptachlor epoxide [2C]	1.00	0.968	95	6	30	60 - 130
Chlordane-gamma [2C]	1.00	0.975	92	5	30	60 - 125
Chlordane-alpha [2C]	1.00	0.970	90	6	30	65 - 125
4,4'-DDE [2C]	1.00	1.22	95	3	30	35 - 140
Endosulfan I [2C]	1.00	0.853	85	7	30	50 - 110
Dieldrin [2C]	1.00	1.10	96	4	30	60 - 130
Endrin [2C]	1.00	1.04	103	5	30	55 - 135
4,4'-DDD [2C]	1.00	1.02	99	5	30	25 - 150
Endosulfan II [2C]	1.00	0.719	72	7	30	30 - 130
4,4'-DDT [2C]	1.00	1.24	104	3	30	45 - 140
Endrin aldehyde [2C]	1.00	0.952	95	5	30	55 - 135
Methoxychlor [2C]	1.00	0.980	97	5	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.988	99	6	30	55 - 135
Endrin ketone [2C]	1.00	0.991	98	5	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21006
Laboratory ID: 6L21006-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	1.01	101	60 - 130
gamma-BHC	1.00	1.02	102	25 - 135
beta-BHC	1.00	1.05	105	65 - 125
delta-BHC	1.00	1.01	101	45 - 135
Heptachlor	1.00	0.945	94	40 - 130
Aldrin	1.00	0.947	95	25 - 140
Heptachlor epoxide	1.00	0.960	96	60 - 130
Chlordane-gamma	1.00	0.987	99	60 - 125
Chlordane-alpha	1.00	0.981	98	65 - 125
4,4'-DDE	1.00	0.969	97	35 - 140
Endosulfan I	1.00	0.990	99	50 - 110
Dieldrin	1.00	0.965	96	60 - 130
Endrin	1.00	1.03	103	55 - 135
4,4'-DDD	1.00	0.993	99	25 - 150
Endosulfan II	1.00	0.984	98	30 - 130
4,4'-DDT	1.00	1.02	102	45 - 140
Endrin aldehyde	1.00	1.06	106	55 - 135
Methoxychlor	1.00	0.933	93	55 - 150
Endosulfan sulfate	1.00	1.02	102	55 - 135
Endrin ketone	1.00	0.985	98	75 - 125
alpha-BHC [2C]	1.00	1.02	102	60 - 130
gamma-BHC [2C]	1.00	1.02	102	25 - 135
beta-BHC [2C]	1.00	1.08	108	65 - 125
delta-BHC [2C]	1.00	1.03	103	45 - 135
Heptachlor [2C]	1.00	0.986	99	40 - 130
Aldrin [2C]	1.00	0.978	98	25 - 140
Heptachlor epoxide [2C]	1.00	0.992	99	60 - 130
Chlordane-gamma [2C]	1.00	1.02	102	60 - 125
Chlordane-alpha [2C]	1.00	1.00	100	65 - 125
4,4'-DDE [2C]	1.00	1.02	102	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21006	Laboratory ID:	6L21006-BS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.998	100	50 - 110
Dieldrin [2C]	1.00	1.01	101	60 - 130
Endrin [2C]	1.00	1.06	106	55 - 135
4,4'-DDD [2C]	1.00	1.02	102	25 - 150
Endosulfan II [2C]	1.00	1.01	101	30 - 130
4,4'-DDT [2C]	1.00	1.04	104	45 - 140
Endrin aldehyde [2C]	1.00	1.05	105	55 - 135
Methoxychlor [2C]	1.00	0.999	100	55 - 150
Endosulfan sulfate [2C]	1.00	1.04	104	55 - 135
Endrin ketone [2C]	1.00	1.00	100	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00212-PEM1	9LGB002-0	12/12/06 16:59
Performance Mix	BA00212-PEM1	9LGA002-0	12/12/06 16:59
Cal Standard	BA00212-CAL1	9LGA004-0	12/12/06 18:03
Cal Standard	BA00212-CAL1	9LGB004-0	12/12/06 18:03
Cal Standard	BA00212-CAL2	9LGA005-0	12/12/06 18:29
Cal Standard	BA00212-CAL2	9LGB005-0	12/12/06 18:29
Cal Standard	BA00212-CAL3	9LGB006-0	12/12/06 18:55
Cal Standard	BA00212-CAL3	9LGA006-0	12/12/06 18:55
Cal Standard	BA00212-CAL4	9LGB007-0	12/12/06 19:21
Cal Standard	BA00212-CAL4	9LGA007-0	12/12/06 19:21
Cal Standard	BA00212-CAL5	9LGA008-0	12/12/06 19:47
Cal Standard	BA00212-CAL5	9LGB008-0	12/12/06 19:47
Cal Standard	BA00212-CAL6	9LGA009-0	12/12/06 20:13
Cal Standard	BA00212-CAL6	9LGB009-0	12/12/06 20:13
Cal Standard	BA00212-CAL7	9LGB010-0	12/12/06 20:39
Cal Standard	BA00212-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Calibration:	0701020		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
Compound	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0701020	Instrument:	JSVGCECD2
Matrix:	Water	Calibration Date:	12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0701020	Instrument:	JSVGCECD2
Matrix:	Water	Calibration Date:	12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00172	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00172-IBL1	9AGA012A-0	01/13/07 12:36
Instrument Blank	BA00172-IBL1	9AGB012A-0	01/13/07 12:36
Performance Mix	BA00172-PEM1	9AGA024-0	01/13/07 17:46
Performance Mix	BA00172-PEM1	9AGB024-0	01/13/07 17:46
Calibration Check	BA00172-CCV1	9AGA038-0	01/13/07 23:47
Calibration Check	BA00172-CCV1	9AGB038-0	01/13/07 23:47
Blank	6L21006-BLK1	9AGB039-0	01/14/07 00:13
Blank	6L21006-BLK1	9AGA039-0	01/14/07 00:13
LCS	6L21006-BS1	9AGA040-0	01/14/07 00:39
LCS	6L21006-BS1	9AGB040-0	01/14/07 00:39
JAX47-SB110-01-113006	6L21006-MS1	9AGB041-0	01/14/07 01:05
JAX47-SB110-01-113006	6L21006-MS1	9AGA041-0	01/14/07 01:05
JAX47-SB110-01-113006	6L21006-MSD1	9AGA042-0	01/14/07 01:30
JAX47-SB110-01-113006	6L21006-MSD1	9AGB042-0	01/14/07 01:30
JAX47-SB110-05-113006	B610375-02	9AGA044-0	01/14/07 02:22
JAX47-SB110-05-113006	B610375-02	9AGB044-0	01/14/07 02:22
JAX47-SB081-05-120106	B610375-12RE1	9AGB046-0	01/14/07 03:14
JAX47-SB081-05-120106	B610375-12RE1	9AGA046-0	01/14/07 03:14
JAX47-SB082-02-120106	B610375-13	9AGB047-0	01/14/07 03:40
JAX47-SB082-02-120106	B610375-13	9AGA047-0	01/14/07 03:40
Calibration Check	BA00172-CCV2	9AGA049-0	01/14/07 04:31
Calibration Check	BA00172-CCV2	9AGB049-0	01/14/07 04:31
Instrument Blank	BA00172-IBL2	9AKB001-0	01/16/07 10:28
Instrument Blank	BA00172-IBL2	9AKA001-0	01/16/07 10:28
Performance Mix	BA00172-PEM2	9AKB002-0	01/16/07 10:54
Performance Mix	BA00172-PEM2	9AKA002-0	01/16/07 10:54
Calibration Check	BA00172-CCV3	9AKB021-0	01/16/07 19:18
Calibration Check	BA00172-CCV3	9AKA021-0	01/16/07 19:18
JAX47-SB110-05-113006	B610375-02RE1	9AKB022-0	01/16/07 19:43
JAX47-SB083-01-120106	B610375-15	9AKB023-0	01/16/07 20:09
JAX47-SB083-01-120106	B610375-15	9AKA023-0	01/16/07 20:09
JAX47-SB083-05-120106	B610375-16	9AKA024-0	01/16/07 20:35

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00172	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB083-05-120106	B610375-16	9AKB024-0	01/16/07 20:35
JAX47-SB081-05-120106	B610375-12	9AKB025-0	01/16/07 21:01
JAX47-SB081-05-120106	B610375-12	9AKA025-0	01/16/07 21:01
JAX47-SB082-05-120106	B610375-14	9AKB026-0	01/16/07 21:27
JAX47-SB082-05-120106	B610375-14	9AKA026-0	01/16/07 21:27
JAX47-SB110-01-113006	B610375-01	9AKA027-0	01/16/07 21:52
JAX47-SB110-01-113006	B610375-01	9AKB027-0	01/16/07 21:52
JAX47-SB081-02-120106	B610375-11	9AKA028-0	01/16/07 22:18
JAX47-SB081-02-120106	B610375-11	9AKB028-0	01/16/07 22:18
Calibration Check	BA00172-CCV4	9AKB029-0	01/16/07 22:44
Calibration Check	BA00172-CCV4	9AKA029-0	01/16/07 22:44

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGA038-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00172	Injection Date:	01/13/07
Lab Sample ID:	BA00172-CCV1	Injection Time:	23:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.113	7.280474E+07	8.21417E+07		12.8	20
gamma-BHC	A	0.100	0.113	6.465721E+07	7.29582E+07		12.8	20
beta-BHC	A	0.100	0.115	2.323065E+07	2.66141E+07		14.6	20
delta-BHC	A	0.100	0.116	5.66961E+07	6.56107E+07		15.7	20
Heptachlor	A	0.100	0.106	6.414063E+07	6.76957E+07		5.5	20
Aldrin	A	0.100	0.108	6.149162E+07	6.64907E+07		8.1	20
Heptachlor epoxide	A	0.100	0.104	5.405995E+07	5.61066E+07		3.8	20
Chlordane-gamma	A	0.100	0.107	5.527518E+07	5.93568E+07		7.4	20
Chlordane-alpha	A	0.100	0.106	5.296272E+07	5.63834E+07		6.5	20
4,4'-DDE	A	0.100	0.104	5.244698E+07	5.44776E+07		3.9	20
Endosulfan I	A	0.100	0.108	4.972951E+07	5.37039E+07		8.0	20
Dieldrin	A	0.100	0.104	5.436507E+07	5.66995E+07		4.3	20
Endrin	A	0.100	0.110	4.627937E+07	5.11341E+07		10.5	20
4,4'-DDD	A	0.100	0.107	4.00135E+07	4.27084E+07		6.7	20
Endosulfan II	A	0.100	0.105	4.442927E+07	4.67637E+07		5.3	20
4,4'-DDT	A	0.100	0.108	4.164772E+07	4.50277E+07		8.1	20
Endrin aldehyde	A	0.100	0.110	3.13612E+07	3.4631E+07		10.4	20
Methoxychlor	A	0.100	0.0980	2.117353E+07	2.0747E+07		-2.0	20
Endosulfan sulfate	A	0.100	0.110	3.673694E+07	4.04055E+07		10.0	20
Endrin ketone	A	0.100	0.105	4.568736E+07	4.77888E+07		4.6	20
alpha-BHC [2C]	A	0.100	0.113	7.552835E+07	8.5625E+07		13.4	20
gamma-BHC [2C]	A	0.100	0.113	6.719113E+07	7.61258E+07		13.3	20
beta-BHC [2C]	A	0.100	0.118	2.472905E+07	2.9047E+07		17.5	20
delta-BHC [2C]	A	0.100	0.118	5.850208E+07	6.89401E+07		17.8	20
Heptachlor [2C]	A	0.100	0.111	6.67268E+07	7.38795E+07		10.7	20
Aldrin [2C]	A	0.100	0.111	6.357242E+07	7.04012E+07		10.7	20
Heptachlor epoxide [2C]	A	0.100	0.107	5.626251E+07	6.0364E+07		7.3	20
Chlordane-gamma [2C]	A	0.100	0.111	5.722595E+07	6.34708E+07		10.9	20
Chlordane-alpha [2C]	A	0.100	0.109	5.472749E+07	5.95202E+07		8.8	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGB038-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00172	Injection Date:	01/13/07
Lab Sample ID:	BA00172-CCV1	Injection Time:	23:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.111	5.341989E+07	5.90654E+07		10.6	20
Endosulfan I [2C]	A	0.100	0.108	5.087841E+07	5.49102E+07		7.9	20
Dieldrin [2C]	A	0.100	0.109	5.608619E+07	6.09584E+07		8.7	20
Endrin [2C]	A	0.100	0.114	4.605028E+07	5.23604E+07		13.7	20
4,4'-DDD [2C]	A	0.100	0.108	4.157866E+07	4.49138E+07		8.0	20
Endosulfan II [2C]	A	0.100	0.108	4.58875E+07	4.94913E+07		7.9	20
4,4'-DDT [2C]	A	0.100	0.110	4.184652E+07	4.58954E+07		9.7	20
Endrin aldehyde [2C]	A	0.100	0.113	3.232817E+07	3.64058E+07		12.6	20
Methoxychlor [2C]	A	0.100	0.106	2.018515E+07	2.13568E+07		5.8	20
Endosulfan sulfate [2C]	A	0.100	0.112	3.836149E+07	4.30029E+07		12.1	20
Endrin ketone [2C]	A	0.100	0.106	4.596086E+07	4.88465E+07		6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGA049-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00172	Injection Date:	01/14/07
Lab Sample ID:	BA00172-CCV2	Injection Time:	04:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.119	7.280474E+07	8.64463E+07		18.7	20
gamma-BHC	A	0.100	0.119	6.465721E+07	7.67262E+07		18.7	20
beta-BHC	A	0.100	0.121	2.323065E+07	2.81508E+07		21.2	20 *
delta-BHC	A	0.100	0.122	5.66961E+07	6.90281E+07		21.8	20 *
Heptachlor	A	0.100	0.111	6.414063E+07	7.09868E+07		10.7	20
Aldrin	A	0.100	0.113	6.149162E+07	6.96687E+07		13.3	20
Heptachlor epoxide	A	0.100	0.107	5.405995E+07	5.8011E+07		7.3	20
Chlordane-gamma	A	0.100	0.111	5.527518E+07	6.15139E+07		11.3	20
Chlordane-alpha	A	0.100	0.111	5.296272E+07	5.86594E+07		10.8	20
4,4'-DDE	A	0.100	0.109	5.244698E+07	5.72704E+07		9.2	20
Endosulfan I	A	0.100	0.111	4.972951E+07	5.53072E+07		11.2	20
Dieldrin	A	0.100	0.109	5.436507E+07	5.90207E+07		8.6	20
Endrin	A	0.100	0.116	4.627937E+07	5.37847E+07		16.2	20
4,4'-DDD	A	0.100	0.113	4.00135E+07	4.50478E+07		12.6	20
Endosulfan II	A	0.100	0.110	4.442927E+07	4.90642E+07		10.4	20
4,4'-DDT	A	0.100	0.114	4.164772E+07	4.75489E+07		14.2	20
Endrin aldehyde	A	0.100	0.116	3.13612E+07	3.63307E+07		15.8	20
Methoxychlor	A	0.100	0.104	2.117353E+07	2.1922E+07		3.5	20
Endosulfan sulfate	A	0.100	0.116	3.673694E+07	4.25777E+07		15.9	20
Endrin ketone	A	0.100	0.110	4.568736E+07	5.0374E+07		10.3	20
alpha-BHC [2C]	A	0.100	0.118	7.552835E+07	8.87904E+07		17.6	20
gamma-BHC [2C]	A	0.100	0.116	6.719113E+07	7.79411E+07		16.0	20
beta-BHC [2C]	A	0.100	0.122	2.472905E+07	3.00848E+07		21.7	20 *
delta-BHC [2C]	A	0.100	0.122	5.850208E+07	7.1072E+07		21.5	20 *
Heptachlor [2C]	A	0.100	0.115	6.67268E+07	7.6723E+07		15.0	20
Aldrin [2C]	A	0.100	0.115	6.357242E+07	7.3101E+07		15.0	20
Heptachlor epoxide [2C]	A	0.100	0.111	5.626251E+07	6.26275E+07		11.3	20
Chlordane-gamma [2C]	A	0.100	0.116	5.722595E+07	6.60855E+07		15.5	20
Chlordane-alpha [2C]	A	0.100	0.115	5.472749E+07	6.28488E+07		14.8	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGB049-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00172	Injection Date:	01/14/07
Lab Sample ID:	BA00172-CCV2	Injection Time:	04:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.114	5.341989E+07	6.07054E+07		13.6	20
Endosulfan I [2C]	A	0.100	0.114	5.087841E+07	5.7969E+07		13.9	20
Dieldrin [2C]	A	0.100	0.113	5.608619E+07	6.33178E+07		12.9	20
Endrin [2C]	A	0.100	0.119	4.605028E+07	5.48299E+07		19.1	20
4,4'-DDD [2C]	A	0.100	0.114	4.157866E+07	4.72287E+07		13.6	20
Endosulfan II [2C]	A	0.100	0.112	4.58875E+07	5.15151E+07		12.3	20
4,4'-DDT [2C]	A	0.100	0.107	4.184652E+07	4.46837E+07		6.8	20
Endrin aldehyde [2C]	A	0.100	0.115	3.232817E+07	3.72485E+07		15.2	20
Methoxychlor [2C]	A	0.100	0.111	2.018515E+07	2.24386E+07		11.2	20
Endosulfan sulfate [2C]	A	0.100	0.117	3.836149E+07	4.47819E+07		16.7	20
Endrin ketone [2C]	A	0.100	0.111	4.596086E+07	5.09994E+07		11.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA021-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00172	Injection Date:	01/16/07
Lab Sample ID:	BA00172-CCV3	Injection Time:	19:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.109	7.280474E+07	7.92068E+07		8.8	20
gamma-BHC	A	0.100	0.109	6.465721E+07	7.03214E+07		8.8	20
beta-BHC	A	0.100	0.111	2.323065E+07	2.58349E+07		11.2	20
delta-BHC	A	0.100	0.109	5.66961E+07	6.18222E+07		9.0	20
Heptachlor	A	0.100	0.101	6.414063E+07	6.48457E+07		1.1	20
Aldrin	A	0.100	0.106	6.149162E+07	6.50374E+07		5.8	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.50635E+07		1.9	20
Chlordane-gamma	A	0.100	0.106	5.527518E+07	5.84179E+07		5.7	20
Chlordane-alpha	A	0.100	0.105	5.296272E+07	5.55503E+07		4.9	20
4,4'-DDE	A	0.100	0.101	5.244698E+07	5.27475E+07		0.6	20
Endosulfan I	A	0.100	0.107	4.972951E+07	5.3341E+07		7.3	20
Dieldrin	A	0.100	0.102	5.436507E+07	5.52556E+07		1.6	20
Endrin	A	0.100	0.102	4.627937E+07	4.70284E+07		1.6	20
4,4'-DDD	A	0.100	0.102	4.00135E+07	4.09016E+07		2.2	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.56258E+07		2.7	20
4,4'-DDT	A	0.100	0.102	4.164772E+07	4.27015E+07		2.5	20
Endrin aldehyde	A	0.100	0.110	3.13612E+07	3.44167E+07		9.7	20
Methoxychlor	A	0.100	0.0896	2.117353E+07	1.8971E+07		-10.4	20
Endosulfan sulfate	A	0.100	0.103	3.673694E+07	3.78093E+07		2.9	20
Endrin ketone	A	0.100	0.0997	4.568736E+07	4.55362E+07		-0.3	20
alpha-BHC [2C]	A	0.100	0.105	7.552835E+07	7.9424E+07		5.2	20
gamma-BHC [2C]	A	0.100	0.105	6.719113E+07	7.03946E+07		4.8	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.68231E+07		8.5	20
delta-BHC [2C]	A	0.100	0.108	5.850208E+07	6.32094E+07		8.0	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.77237E+07		1.5	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.62283E+07		4.2	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.70683E+07		1.4	20
Chlordane-gamma [2C]	A	0.100	0.105	5.722595E+07	6.01111E+07		5.0	20
Chlordane-alpha [2C]	A	0.100	0.104	5.472749E+07	5.71271E+07		4.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB021-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00172	Injection Date:	01/16/07
Lab Sample ID:	BA00172-CCV3	Injection Time:	19:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.104	5.341989E+07	5.55672E+07		4.0	20
Endosulfan I [2C]	A	0.100	0.105	5.087841E+07	5.32135E+07		4.6	20
Dieldrin [2C]	A	0.100	0.103	5.608619E+07	5.7847E+07		3.1	20
Endrin [2C]	A	0.100	0.101	4.605028E+07	4.66406E+07		1.3	20
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.24498E+07		2.1	20
Endosulfan II [2C]	A	0.100	0.104	4.58875E+07	4.76744E+07		3.9	20
4,4'-DDT [2C]	A	0.100	0.0990	4.184652E+07	4.14234E+07		-1.0	20
Endrin aldehyde [2C]	A	0.100	0.109	3.232817E+07	3.51279E+07		8.7	20
Methoxychlor [2C]	A	0.100	0.0923	2.018515E+07	1.86242E+07		-7.7	20
Endosulfan sulfate [2C]	A	0.100	0.101	3.836149E+07	3.87609E+07		1.0	20
Endrin ketone [2C]	A	0.100	0.0978	4.596086E+07	4.49454E+07		-2.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA029-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00172	Injection Date:	01/16/07
Lab Sample ID:	BA00172-CCV4	Injection Time:	22:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.112	7.280474E+07	8.18016E+07		12.4	20
gamma-BHC	A	0.100	0.112	6.465721E+07	7.25954E+07		12.3	20
beta-BHC	A	0.100	0.115	2.323065E+07	2.6664E+07		14.8	20
delta-BHC	A	0.100	0.115	5.66961E+07	6.51223E+07		14.9	20
Heptachlor	A	0.100	0.104	6.414063E+07	6.70376E+07		4.5	20
Aldrin	A	0.100	0.109	6.149162E+07	6.68765E+07		8.8	20
Heptachlor epoxide	A	0.100	0.104	5.405995E+07	5.64408E+07		4.4	20
Chlordane-gamma	A	0.100	0.108	5.527518E+07	5.98708E+07		8.3	20
Chlordane-alpha	A	0.100	0.108	5.296272E+07	5.71397E+07		7.9	20
4,4'-DDE	A	0.100	0.104	5.244698E+07	5.45245E+07		4.0	20
Endosulfan I	A	0.100	0.110	4.972951E+07	5.46178E+07		9.8	20
Dieldrin	A	0.100	0.105	5.436507E+07	5.71139E+07		5.1	20
Endrin	A	0.100	0.108	4.627937E+07	5.00486E+07		8.1	20
4,4'-DDD	A	0.100	0.106	4.00135E+07	4.25706E+07		6.4	20
Endosulfan II	A	0.100	0.106	4.442927E+07	4.69526E+07		5.7	20
4,4'-DDT	A	0.100	0.106	4.164772E+07	4.43254E+07		6.4	20
Endrin aldehyde	A	0.100	0.111	3.13612E+07	3.48673E+07		11.2	20
Methoxychlor	A	0.100	0.0944	2.117353E+07	1.99843E+07		-5.6	20
Endosulfan sulfate	A	0.100	0.107	3.673694E+07	3.94529E+07		7.4	20
Endrin ketone	A	0.100	0.103	4.568736E+07	4.70531E+07		3.0	20
alpha-BHC [2C]	A	0.100	0.110	7.552835E+07	8.26832E+07		9.5	20
gamma-BHC [2C]	A	0.100	0.108	6.719113E+07	7.28782E+07		8.5	20
beta-BHC [2C]	A	0.100	0.113	2.472905E+07	2.79487E+07		13.0	20
delta-BHC [2C]	A	0.100	0.112	5.850208E+07	6.52498E+07		11.5	20
Heptachlor [2C]	A	0.100	0.107	6.67268E+07	7.12674E+07		6.8	20
Aldrin [2C]	A	0.100	0.108	6.357242E+07	6.86163E+07		7.9	20
Heptachlor epoxide [2C]	A	0.100	0.105	5.626251E+07	5.90763E+07		5.0	20
Chlordane-gamma [2C]	A	0.100	0.109	5.722595E+07	6.22711E+07		8.8	20
Chlordane-alpha [2C]	A	0.100	0.108	5.472749E+07	5.91633E+07		8.1	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB029-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00172	Injection Date:	01/16/07
Lab Sample ID:	BA00172-CCV4	Injection Time:	22:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.108	5.341989E+07	5.7652E+07		7.9	20
Endosulfan I [2C]	A	0.100	0.108	5.087841E+07	5.50198E+07		8.1	20
Dieldrin [2C]	A	0.100	0.107	5.608619E+07	5.9825E+07		6.7	20
Endrin [2C]	A	0.100	0.109	4.605028E+07	5.02192E+07		9.1	20
4,4'-DDD [2C]	A	0.100	0.107	4.157866E+07	4.43762E+07		6.7	20
Endosulfan II [2C]	A	0.100	0.107	4.58875E+07	4.92857E+07		7.4	20
4,4'-DDT [2C]	A	0.100	0.103	4.184652E+07	4.32547E+07		3.4	20
Endrin aldehyde [2C]	A	0.100	0.111	3.232817E+07	3.58286E+07		10.8	20
Methoxychlor [2C]	A	0.100	0.0979	2.018515E+07	1.97525E+07		-2.1	20
Endosulfan sulfate [2C]	A	0.100	0.106	3.836149E+07	4.07595E+07		6.3	20
Endrin ketone [2C]	A	0.100	0.102	4.596086E+07	4.69221E+07		2.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-01	File ID:	9AKA027-0
Sampled:	11/30/06 15:52	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 21:52
Solids:	97.17	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

JAXG 7-SB110-01-113006

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.42	8.816429	0.396		0.018	
Heptachlor epoxide	* 1	10.552	10.95643	0.404		0.023	27.8
Chlordane-gamma	* 1	10.766	11.14771	0.382		0.007	629
Chlordane-alpha	* 1	10.941	11.34971	0.409		0.074	12.1
4,4′-DDE	* 1	11.097	11.48286	0.386		0.282	
Dieldrin	* 1	11.512	11.91886	0.407		0.139	2.88
Endrin	* 1	11.853	12.26457	0.412		0.018	12.5
4,4′-DDD	* 1	11.988	12.37786	0.39		0.020	
4,4′-DDT	* 1	12.418	12.78071	0.363		0.005	
Methoxychlor	* 1	13.088	13.48543	0.397		0.020	42.9
Endrin ketone	* 1	13.838	14.25229	0.414		0.014	7.14
beta-BHC	2	8.326	8.687429	0.361		0.017	5.88
Heptachlor epoxide	2	10.307	10.67843	0.371		0.018	27.8
Chlordane-gamma	2	10.6	10.97329	0.373		0.051	629
Chlordane-alpha	2	10.823	11.19143	0.368		0.066	12.1
4,4'-DDE	2	11.12	11.47543	0.355		0.265	
Dieldrin	2	11.301	11.67429	0.373		0.143	2.88
Endrin	2	11.741	12.121	0.38		0.016	12.5
4,4'-DDD	2	11.967	12.32514	0.358		0.028	
4,4'-DDT	2	12.413	12.77157	0.359		0.203	
Methoxychlor	2	13.427	13.77371	0.347		0.014	42.9
Endrin ketone	2	13.703	14.08214	0.379		0.015	7.14
2,4,5,6-TCMX	* 1	6.442	6.848286	0.406		0.966	5.34
2,4,5,6-TCMX	2	6.186	6.564286	0.378		0.917	
DBC	* 1	13.72	14.10214	0.382		0.988	2.49
DBC	2	13.559	13.90914	0.35		0.964	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02	File ID:	9AGA044-0
Sampled:	11/30/06 16:00	Prepared:	12/19/06 18:02	Analyzed:	01/14/07 02:22
Solids:	89.63	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

JAX47-SB110-05-113006

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.455	8.816429	0.361		0.042	42.9
Heptachlor	* 1	9.095	9.463429	0.368		0.129	9.3
Aldrin	* 1	9.551	9.967572	0.417		0.029	69
Heptachlor epoxide	1	10.598	10.95643	0.358		0.177	581
Chlordane-gamma	* 1	10.78	11.14771	0.368		1.14	2.54
Chlordane-alpha	1	10.969	11.34971	0.381		2.00	220
4,4'-DDE	* 1	11.131	11.48286	0.352		1.33	
Endosulfan I	* 1	11.219	11.55586	0.337		0.040	508
Dieldrin	* 1	11.515	11.91886	0.404		0.096	30.2
Endrin	* 1	11.882	12.26457	0.383		0.053	1450
Methoxychlor	1	13.095	13.48543	0.39		0.066	120
Endosulfan sulfate	* 1	13.481	13.853	0.372		0.012	71.4
beta-BHC	2	8.359	8.687429	0.328		0.060	42.9
Heptachlor	2	8.898	9.237571	0.34		0.141	9.3
Aldrin	2	9.414	9.759429	0.345		0.049	69
Heptachlor epoxide	* 2	10.337	10.67843	0.341		0.026	581
Chlordane-gamma	2	10.634	10.97329	0.339		1.17	2.98
Chlordane-alpha	* 2	10.857	11.19143	0.334		0.626	219
4,4'-DDE	2	11.151	11.47543	0.324		1.07	
Endosulfan I	2	10.897	11.26443	0.367		0.243	508
Dieldrin	2	11.333	11.67429	0.341		0.125	30.2
Endrin	2	11.775	12.121	0.346		0.821	1450
Endrin aldehyde	2	12.603	12.927	0.324		0.115	
Methoxychlor	* 2	13.462	13.77371	0.312		0.030	120
Endosulfan sulfate	2	12.993	13.32643	0.333		0.007	71.4
Endrin ketone	2	13.761	14.08214	0.321		0.105	
2,4,5,6-TCMX	* 1	6.474	6.848286	0.374		0.616	11.5
2,4,5,6-TCMX	2	6.218	6.564286	0.346		0.687	
DBC	* 1	13.755	14.10214	0.347		0.554	17.6
DBC	2	13.591	13.90914	0.318		0.471	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-02RE1	File ID:	9AKB022-0
Sampled:	11/30/06 16:00	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 19:43
Solids:	89.63	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDD	* 1	11.989	12.37786	0.389		36.9	
4,4´-DDT	* 1	12.393	12.78071	0.388		36.7	
4,4'-DDD	2	11.968	12.32514	0.357		40.2	
4,4'-DDT	2	12.414	12.77157	0.358		35.6	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-11	File ID:	9AKA028-0
Sampled:	12/01/06 10:25	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 22:18
Solids:	71.02	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

JAX07-SB081-02-120106

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.42	8.816429	0.396		0.010	25
Chlordane-gamma	* 1	10.745	11.14771	0.403		0.015	15.4
Chlordane-alpha	1	10.941	11.34971	0.409		0.029	190
4,4'-DDE	* 1	11.1	11.48286	0.383		0.008	
Dieldrin	* 1	11.511	11.91886	0.408		0.010	20
4,4'-DDD	* 1	11.988	12.37786	0.39		0.164	
4,4'-DDT	* 1	12.393	12.78071	0.388		0.109	
beta-BHC	2	8.328	8.687429	0.359		0.008	25
Heptachlor	2	8.862	9.237571	0.376		0.002	
Chlordane-gamma	2	10.602	10.97329	0.371		0.013	15.4
Chlordane-alpha	* 2	10.824	11.19143	0.367		0.010	190
4,4'-DDE	2	11.12	11.47543	0.355		0.006	
Dieldrin	2	11.302	11.67429	0.372		0.012	20
4,4'-DDD	2	11.967	12.32514	0.358		0.175	
4,4'-DDT	2	12.414	12.77157	0.358		0.111	
2,4,5,6-TCMX	* 1	6.443	6.848286	0.405		0.742	3.49
2,4,5,6-TCMX	2	6.187	6.564286	0.377		0.717	
DBC	* 1	13.723	14.10214	0.379		0.643	1.26
DBC	2	13.561	13.90914	0.348		0.635	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-12	File ID:	9AKA025-0
Sampled:	12/01/06 10:32	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 21:01
Solids:	80.58	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.42	8.816429	0.396		0.242	0.833
delta-BHC	* 1	8.725	9.124286	0.399		0.063	3.17
beta-BHC	2	8.325	8.687429	0.362		0.240	0.833
delta-BHC	2	8.817	9.180286	0.363		0.065	3.17

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-12RE1	File ID:	9AGA046-0
Sampled:	12/01/06 10:32	Prepared:	12/19/06 18:02	Analyzed:	01/14/07 03:14
Solids:	80.58	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

JA X47-5B081-05-120166

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.585	10.95643	0.371		0.002	250
Chlordane-gamma	* 1	10.779	11.14771	0.369		0.010	11.1
Chlordane-alpha	* 1	10.975	11.34971	0.375		0.022	175
4,4'-DDE	* 1	11.134	11.48286	0.349		0.005	
Dieldrin	* 1	11.547	11.91886	0.372		0.017	0.00000
4,4'-DDD	* 1	12.022	12.37786	0.356		0.105	
4,4'-DDT	* 1	12.425	12.78071	0.356		0.029	
Heptachlor epoxide	2	10.301	10.67843	0.377		0.007	250
Chlordane-gamma	2	10.634	10.97329	0.339		0.009	11.1
Chlordane-alpha	2	10.857	11.19143	0.334		0.008	175
4,4'-DDE	2	11.152	11.47543	0.323		0.003	
Dieldrin	2	11.335	11.67429	0.339		0.017	0.00000
4,4'-DDD	2	12	12.32514	0.325		0.115	
4,4'-DDT	2	12.446	12.77157	0.326		0.030	
2,4,5,6-TCMX	* 1	6.475	6.848286	0.373		0.982	1.45
2,4,5,6-TCMX	2	6.219	6.564286	0.345		0.968	
DBC	* 1	13.754	14.10214	0.348		0.926	0.432
DBC	2	13.591	13.90914	0.318		0.930	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-13	File ID:	9AGA047-0
Sampled:	12/01/06 10:15	Prepared:	12/19/06 18:02	Analyzed:	01/14/07 03:40
Solids:	91.47	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

JAX 97-SB002-02-120106

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	* 1	10.619	10.95643	0.337		0.021	410
Chlordane-gamma	* 1	10.78	11.14771	0.368		0.706	2.27
Chlordane-alpha	1	10.983	11.34971	0.367		0.945	60.4
4,4'-DDE	* 1	11.13	11.48286	0.353		0.013	
Dieldrin	* 1	11.549	11.91886	0.37		0.437	3.66
Endrin	* 1	11.889	12.26457	0.376		0.014	14.3
4,4'-DDD	* 1	12.022	12.37786	0.356		0.008	
Endosulfan II	* 1	12.234	12.60057	0.367		0.006	16.7
4,4'-DDT	* 1	12.425	12.78071	0.356		0.011	
Heptachlor epoxide	2	10.301	10.67843	0.377		0.107	410
Chlordane-gamma	2	10.634	10.97329	0.339		0.722	2.27
Chlordane-alpha	* 2	10.858	11.19143	0.333		0.589	60.4
4,4'-DDE	2	11.152	11.47543	0.323		0.010	
Dieldrin	2	11.335	11.67429	0.339		0.453	3.66
Endrin	2	11.778	12.121	0.343		0.016	14.3
4,4'-DDD	2	11.999	12.32514	0.326		0.019	
Endosulfan II	2	12.077	12.43571	0.359		0.007	16.7
4,4'-DDT	2	12.447	12.77157	0.325		0.013	
2,4,5,6-TCMX	* 1	6.476	6.848286	0.372		0.875	2.46
2,4,5,6-TCMX	2	6.219	6.564286	0.345		0.854	
DBC	* 1	13.755	14.10214	0.347		0.772	2.59
DBC	2	13.592	13.90914	0.317		0.792	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-14	File ID:	9AKA026-0
Sampled:	12/01/06 10:21	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 21:27
Solids:	73.57	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.419	8.816429	0.397		0.023	9.52
delta-BHC	* 1	8.723	9.124286	0.401		0.007	16.7
Heptachlor epoxide	* 1	10.55	10.95643	0.406		0.005	25
Chlordane-gamma	* 1	10.742	11.14771	0.406		0.008	14.3
Chlordane-alpha	1	10.942	11.34971	0.408		0.013	117
Dieldrin	* 1	11.511	11.91886	0.408		0.004	0.00000
4,4'-DDD	* 1	11.99	12.37786	0.388		0.022	
4,4'-DDT	* 1	12.392	12.78071	0.389		0.013	
beta-BHC	2	8.325	8.687429	0.362		0.021	9.52
delta-BHC	2	8.815	9.180286	0.365		0.006	16.7
Heptachlor epoxide	2	10.305	10.67843	0.373		0.004	25
Chlordane-gamma	2	10.599	10.97329	0.374		0.007	14.3
Chlordane-alpha	* 2	10.822	11.19143	0.369		0.006	117
Dieldrin	2	11.299	11.67429	0.375		0.004	0.00000
4,4'-DDD	2	11.968	12.32514	0.357		0.023	
4,4'-DDT	2	12.412	12.77157	0.36		0.014	
2,4,5,6-TCMX	* 1	6.44	6.848286	0.408		0.962	6.06
2,4,5,6-TCMX	2	6.184	6.564286	0.38		0.907	
DBC	* 1	13.72	14.10214	0.382		0.928	2.32
DBC	2	13.557	13.90914	0.352		0.907	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-15	File ID:	9AKA023-0
Sampled:	12/01/06 09:52	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 20:09
Solids:	93.90	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

JAX47-SB083-01-120106

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.421	8.816429	0.395		0.025	31.6
Heptachlor	* 1	9.058	9.463429	0.405		0.002	
Heptachlor epoxide	* 1	10.56	10.95643	0.396		0.014	14.3
Chlordane-gamma	* 1	10.745	11.14771	0.403		0.526	2.94
Chlordane-alpha	* 1	10.944	11.34971	0.406		0.489	8.19
4,4′-DDE	* 1	11.098	11.48286	0.385		0.051	
Dieldrin	* 1	11.514	11.91886	0.405		0.053	47.2
Endrin	* 1	11.849	12.26457	0.416		0.015	36.4
4,4′-DDD	* 1	11.989	12.37786	0.389		0.051	
4,4′-DDT	* 1	12.393	12.78071	0.388		0.058	
beta-BHC	2	8.326	8.687429	0.361		0.019	31.6
Heptachlor epoxide	2	10.307	10.67843	0.371		0.016	14.3
Chlordane-gamma	2	10.601	10.97329	0.372		0.511	2.94
Chlordane-alpha	2	10.824	11.19143	0.367		0.452	8.19
4,4'-DDE	2	11.121	11.47543	0.354		0.048	
Dieldrin	2	11.301	11.67429	0.373		0.078	47.2
Endrin	2	11.766	12.121	0.355		0.011	36.4
4,4'-DDD	2	11.947	12.32514	0.378		1.49	
4,4'-DDT	2	12.413	12.77157	0.359		0.062	
2,4,5,6-TCMX	* 1	6.442	6.848286	0.406		0.979	4.71
2,4,5,6-TCMX	2	6.186	6.564286	0.378		0.935	
DBC	* 1	13.721	14.10214	0.381		0.903	0.111
DBC	2	13.559	13.90914	0.35		0.902	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610375-16	File ID:	9AKA024-0
Sampled:	12/01/06 09:58	Prepared:	12/19/06 18:02	Analyzed:	01/16/07 20:35
Solids:	94.21	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21006	Sequence:	BA00172		

JAX47-SB083-05-120106

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.42	8.816429	0.396		0.029	7.41
delta-BHC	* 1	8.723	9.124286	0.401		0.004	0.00000
Heptachlor epoxide	* 1	10.55	10.95643	0.406		0.005	0.00000
Chlordane-gamma	* 1	10.745	11.14771	0.403		0.089	9.88
Chlordane-alpha	1	10.944	11.34971	0.406		0.166	110
4,4'-DDE	* 1	11.098	11.48286	0.385		0.008	
Dieldrin	* 1	11.514	11.91886	0.405		0.017	5.88
4,4'-DDD	* 1	11.991	12.37786	0.387		0.036	
4,4'-DDT	* 1	12.394	12.78071	0.387		0.026	
beta-BHC	2	8.325	8.687429	0.362		0.027	7.41
delta-BHC	2	8.816	9.180286	0.364		0.004	0.00000
Heptachlor epoxide	2	10.306	10.67843	0.372		0.005	0.00000
Chlordane-gamma	2	10.601	10.97329	0.372		0.081	9.88
Chlordane-alpha	* 2	10.824	11.19143	0.367		0.079	110
4,4'-DDE	2	11.121	11.47543	0.354		0.007	
Dieldrin	2	11.301	11.67429	0.373		0.018	5.88
4,4'-DDD	2	11.948	12.32514	0.377		0.205	
4,4'-DDT	2	12.414	12.77157	0.358		0.027	
2,4,5,6-TCMX	* 1	6.441	6.848286	0.407		0.905	4.62
2,4,5,6-TCMX	2	6.184	6.564286	0.38		0.865	
DBC	* 1	13.722	14.10214	0.38		0.857	3.13
DBC	2	13.56	13.90914	0.349		0.831	

* Column used for quantitation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **FEBRUARY 26, 2007**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC / SPLP ARSENIC**
NAS JACKSONVILLE – CTO 047
SAMPLE DELIVERY GROUP (SDG) – BR006-012

SAMPLES: 8/Leachates/

JAX47-SB081-02-120106	JAX47-SB081-05-120106
JAX47-SB082-02-120106	JAX47-SB082-05-120106
JAX47-SB083-01-120106	JAX47-SB083-05-120106
JAX47-SB110-01-113006	JAX47-SB110-05-113006

20/Soils/

JAX47-DU02-120106	JAX47-DU03-120106
JAX47-SB078-01-120106	JAX47-SB078-06-120106
JAX47-SB079-01-120106	JAX47-SB079-06-120106
JAX47-SB080-01-120106	JAX47-SB080-05-120106
JAX47-SB081-02-120106	JAX47-SB081-05-120106
JAX47-SB082-02-120106	JAX47-SB082-05-120106
JAX47-SB083-01-120106	JAX47-SB083-05-120106
JAX47-SB087-01-120106	JAX47-SB087-05-120106
JAX47-SB088-03-120106	JAX47-SB088-06-120106
JAX47-SB110-01-113006	JAX47-SB110-05-113006

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-012, consists of eight (8) leachate and twenty (20) soil environmental samples. Two (2) field duplicate samples (JAX47-DU02-120106 and JAX47-DU03-120106) were included within this SDG. Samples JAX47-SB091-04-120106 and JAX47-SB090-03-120106, contained in SDG BR006-013, are the field duplicates of the previously referenced blind field duplicates.

All samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS, Inc. on November 30 and December 1, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using EPA methods 1312/3050B and 6010B methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries

* • Field Duplicate Precision
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminant was detected in the laboratory preparation blank at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Arsenic[1]	0.228 mg/kg	1.14 mg/kg

[1] Affects soil samples only.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Arsenic was qualified due to laboratory blank contamination.

Notes

None.

Executive Summary

Laboratory Performance: Arsenic was qualified due to laboratory blank contamination.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", October 2004.

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Chemist / Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Appendix A
Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB081-02-120106	nsample	JAX47-SB081-05-120106	nsample	JAX47-SB082-02-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-11	lab_id	B610375-12	lab_id	B610375-13
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids	71.0	Pct_Solids	80.6	Pct_Solids	91.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.006		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.005		

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB082-05-120106	nsample	JAX47-SB083-01-120106	nsample	JAX47-SB083-05-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-14	lab_id	B610375-15	lab_id	B610375-16
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids	73.6	Pct_Solids	93.9	Pct_Solids	94.2
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.012		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB110-01-113006	nsample	JAX47-SB110-05-113006
samp_date	11/30/2006	samp_date	11/30/2006
lab_id	B610375-01	lab_id	B610375-02
qc_type	NM	qc_type	NM
units	MG/L	units	MG/L
Pct_Solids	97.2	Pct_Solids	89.6
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.007		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.011		

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-DU02-120106	nsample	JAX47-DU03-120106	nsample	JAX47-SB078-01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-03	lab_id	B610375-04	lab_id	B610375-05
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.0	Pct_Solids	94.4	Pct_Solids	96.4
DUP_OF:	JAX47-SB091-04-120106	DUP_OF:	JAX47-SB090-03-120106	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.2		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.3		

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB078-06-120106	nsample	JAX47-SB079-01-120106	nsample	JAX47-SB079-06-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-06	lab_id	B610375-07	lab_id	B610375-08
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	90.9	Pct_Solids	94.8	Pct_Solids	88.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.9	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.7	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	2		

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB080-01-120106	nsample	JAX47-SB080-05-120106	nsample	JAX47-SB081-02-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-09	lab_id	B610375-10	lab_id	B610375-11
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.5	Pct_Solids	90.6	Pct_Solids	71.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.6	U	A

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB081-05-120106	nsample	JAX47-SB082-02-120106	nsample	JAX47-SB082-05-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-12	lab_id	B610375-13	lab_id	B610375-14
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	80.6	Pct_Solids	91.5	Pct_Solids	73.6
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.5	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.7		

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB083-01-120106	nsample	JAX47-SB083-05-120106	nsample	JAX47-SB087-01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-15	lab_id	B610375-16	lab_id	B610375-17
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	93.9	Pct_Solids	94.2	Pct_Solids	70.9
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.5	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.9	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.4		

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB087-05-120106	nsample	JAX47-SB088-03-120106	nsample	JAX47-SB088-06-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610375-18	lab_id	B610375-19	lab_id	B610375-20
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	76.0	Pct_Solids	90.2	Pct_Solids	91.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.1	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.9		

PROJ_NO: 00497

SDG: BR006-012 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB110-01-113006
samp_date	11/30/2006
lab_id	B610375-01
qc_type	NM
units	MG/KG
Pct_Solids	97.2
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.7	U	A

nsample	JAX47-SB110-05-113006
samp_date	11/30/2006
lab_id	B610375-02
qc_type	NM
units	MG/KG
Pct_Solids	89.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.8	U	A

Appendix B
Results as reported by the Laboratory

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB081-02-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-11 — *File ID:* 011107a-038

Sampled: 12/01/06 10:25 — Prepared: 01/10/07 16:04 — Analyzed: 01/11/07 13:21

Solids: 71.02 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10026 — Sequence: BA00158 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB081-05-120106

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-12 | *File ID:* 011107a-039

Sampled: 12/01/06 10:32 | Prepared: 01/10/07 16:04 | Analyzed: 01/11/07 13:28

Solids: 80.58 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10026 | Sequence: BA00158 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.006	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB082-02-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-13 — *File ID:* 011107a-040

Sampled: 12/01/06 10:15 — Prepared: 01/10/07 16:04 — Analyzed: 01/11/07 13:35

Solids: 91.47 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10026 — Sequence: BA00158 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.005	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB082-05-120106

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610375-14 *File ID:* 011107a-041

Sampled: 12/01/06 10:21 Prepared: 01/10/07 16:04 Analyzed: 01/11/07 13:42

Solids: 73.57 Preparation: EPA 3010A Initial/Final: 50 mL / 50 mL

Batch: 7A10026 Sequence: BA00158 Calibration: 0701006 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.012	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB083-01-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-15 — *File ID:* 011107a-042

Sampled: 12/01/06 09:52 — Prepared: 01/10/07 16:04 — Analyzed: 01/11/07 13:50

Solids: 93.90 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10026 — Sequence: BA00158 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB083-05-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-16 — *File ID:* 011107a-043

Sampled: 12/01/06 09:58 — Prepared: 01/10/07 16:04 — Analyzed: 01/11/07 13:57

Solids: 94.21 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10026 — Sequence: BA00158 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | Laboratory ID: B610375-01 | File ID: 011107a-036

Sampled: 11/30/06 15:52 | Prepared: 01/10/07 16:04 | Analyzed: 01/11/07 13:07

Solids: 97.17 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10026 | Sequence: BA00158 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.007	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB110-05-113006

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-02 | *File ID:* 011107a-037

Sampled: 11/30/06 16:00 | Prepared: 01/10/07 16:04 | Analyzed: 01/11/07 13:14

Solids: 89.63 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10026 | Sequence: BA00158 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.011	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-DU02-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-03 — *File ID:* 122006a-144

Sampled: 12/01/06 00:00 — Prepared: 12/15/06 06:01 — Analyzed: 12/21/06 01:32

Solids: 96.03 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15002 — Sequence: BA00111 — Calibration: 0612016 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.2	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-DU03-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-04 — *File ID:* 122006a-145

Sampled: 12/01/06 00:00 — Prepared: 12/15/06 06:01 — Analyzed: 12/21/06 01:38

Solids: 94.44 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15002 — Sequence: BA00111 — Calibration: 0612016 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB078-01-120106

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-05 | File ID: 122006a-146

Sampled: 12/01/06 12:26 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 01:45

Solids: 96.37 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.3	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB078-06-120106

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: *soil* | *Laboratory ID:* *B610375-06* | *File ID:* *122006a-147*

Sampled: 12/01/06 12:33 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 01:51

Solids: 90.91 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB079-01-120106

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610375-07 *File ID:* 122006a-148

Sampled: 12/01/06 12:11 Prepared: 12/15/06 06:01 Analyzed: 12/21/06 01:57

Solids: 94.83 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15002 Sequence: BA00111 Calibration: 0612016 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.7	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB079-06-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-08 — *File ID:* 122006a-149

Sampled: 12/01/06 12:18 — Prepared: 12/15/06 06:01 — Analyzed: 12/21/06 02:04

Solids: 88.13 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15002 — Sequence: BA00111 — Calibration: 0612016 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	2.0	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB080-01-120106

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-09 | *File ID:* 122006a-153

Sampled: 12/01/06 09:12 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 02:30

Solids: 96.54 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.3	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB080-05-120106

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: *soil* | *Laboratory ID:* *B610375-10* | *File ID:* *122006a-154*

Sampled: 12/01/06 09:39 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 02:36

Solids: 90.60 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB081-02-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-11 — File ID: 122006a-155

Sampled: 12/01/06 10:25 — Prepared: 12/15/06 06:01 — Analyzed: 12/21/06 02:43

Solids: 71.02 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15002 — Sequence: BA00111 — Calibration: 0612016 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB081-05-120106

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-12 | *File ID:* 122006a-156

Sampled: 12/01/06 10:32 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 02:49

Solids: 80.58 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB082-02-120106

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610375-13 *File ID:* 122006a-157

Sampled: 12/01/06 10:15 Prepared: 12/15/06 06:01 Analyzed: 12/21/06 02:55

Solids: 91.47 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15002 Sequence: BA00111 Calibration: 0612016 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB082-05-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-14 — *File ID:* 122006a-158

Sampled: 12/01/06 10:21 — Prepared: 12/15/06 06:01 — Analyzed: 12/21/06 03:02

Solids: 73.57 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15002 — Sequence: BA00111 — Calibration: 0612016 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.7	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB083-01-120106

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610375-15 *File ID:* 122006a-159

Sampled: 12/01/06 09:52 Prepared: 12/15/06 06:01 Analyzed: 12/21/06 03:08

Solids: 93.90 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15002 Sequence: BA00111 Calibration: 0612016 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.5	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB083-05-120106

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-16 | File ID: 122006a-160

Sampled: 12/01/06 09:58 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 03:14

Solids: 94.21 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB087-01-120106

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: *soil* *Laboratory ID:* B610375-17 *File ID:* 122006a-161

Sampled: 12/01/06 10:40 Prepared: 12/15/06 06:01 Analyzed: 12/21/06 03:21

Solids: 70.89 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15002 Sequence: BA00111 Calibration: 0612016 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.4	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB087-05-120106

Laboratory: ENCO Jacksonville — SDG: BR006-012

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610375-18 — *File ID:* 122006a-162

Sampled: 12/01/06 10:48 — Prepared: 12/15/06 06:01 — Analyzed: 12/21/06 03:27

Solids: 76.03 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L15002 — Sequence: BA00111 — Calibration: 0612016 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.1	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB088-03-120106

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-19 | *File ID:* 122006a-166

Sampled: 12/01/06 11:45 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 03:54

Solids: 90.16 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB088-06-120106

Laboratory: ENCO Jacksonville SDG: BR006-012

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610375-20 *File ID:* 122006a-167

Sampled: 12/01/06 11:59 Prepared: 12/15/06 06:01 Analyzed: 12/21/06 04:00

Solids: 91.26 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L15002 Sequence: BA00111 Calibration: 0612016 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	3.9	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB110-01-113006

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-01 | File ID: 122006a-142

Sampled: 11/30/06 15:52 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 01:19

Solids: 97.17 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.7	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB110-05-113006

Laboratory: ENCO Jacksonville | SDG: BR006-012

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610375-02 | *File ID:* 122006a-143

Sampled: 11/30/06 16:00 | Prepared: 12/15/06 06:01 | Analyzed: 12/21/06 01:25

Solids: 89.63 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 6L15002 | Sequence: BA00111 | Calibration: 0612016 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.8	1		EPA 6010B

Appendix C
Support Documentation

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Continuing Calibration Verification Standard 9AGA049 was outside and above the DoD QSM control limits for Beta-BHC and Delta-BHC. The method blank, matrix spike, matrix spike duplicate and laboratory control standard were all within the DoD control limits. Results associated with these standard/compounds are considered to be estimated bias high. The only sample affected was JAX47-SB110-05-113006.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins

Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 11:33:30 -05'00'

Christina M. Tompkins
Project Manager

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The closing Continuing Calibration Verification Standard 9LEA024 was outside the DoD QSM control limits for Endosulfan I, 4,4-DDT and Methoxychlor. There was insufficient sample for re-analysis for JAX47-SB081-02-120106. The opening continuing calibration verification standard was within the DoD QSM control limits.
- Surrogate 2,4,5,6-TCMX for JAX47-SB079-01-120106, JAX47-SB080-01-120106, JAX47-SB080-05-120106, JAX47-SB081-05-120106, JAX47-SB082-01-120106, JAX47-SB087-01-120106, JAX47-SB081-02-120106 were outside the DoD QSM control limits. The data was accepted based on the surrogate DBC being within the DoD QSM control limits.
- Surrogate DBC for JAX47-SB110-01-113006 was outside the DoD QSM control limits. The data was accepted based on the surrogate 2,4,5,6-TCMX passing the DoD QSM control limits.
- The Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits due to the sample matrix.
- Laboratory Control Standard for 6L08006-BS1 for the Endrin Aldehyde is outside the DoD QSM control limits but within the marginal exceedance limits.
- The closing Continuing Calibration Verification Standard 9LDA020 was outside and above the DoD QSM control limits for 4,4-DDT. Results associated with this standard/compound are considered to be estimated bias low. JAX47-SB087-05-120106 RE1, JAX47-DU02-120106 RE1 are the related samples.
- JAX47-SB110-05-113006 surrogate recoveries for 2,4,5,6-TCMX and DBC were outside the DoD QSM control limits due to sample matrix.
- Methoxychlor for Continuing Calibration Verification Standard resulted outside and below the DoD QSM limit. Any sample result associated with this standard/compound is considered to be estimated bias low. JAX47-SB087-01-120106 is the related sample.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.23 16:32:38 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No: 112G00497	Facility: JACKSONVILLE NAS	Project Manager: Mark Peterson	Carrier: Hand Deliver	Laboratory Name: Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216
Task No: CTO 0047	Turn Around Time: Standard	Field Ops Leader: Charles Metz	Carrier/Waybill No.	Point of Contact: Lab Contact 904-296-3007

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

11/30/2006	JAX47-SB099-05-113006	15:30	SW-846 6010B or 6020	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	SW-846 6010B or 6020	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	SW-846 8081A	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	SW-846 8081A	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	SW-846 6010B or 6020	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	SW-846 8081A	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	SW-846 6010B or 6020	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	SW-846 8081A	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	SW-846 6010B or 6020	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	SW-846 6010B or 6020	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	SW-846 8081A	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	SW-846 6010B or 6020	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	SW-846 8081A	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	SW-846 6010B or 6020	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	SW-846 8081A	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	SW-846 8081A	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	SW-846 6010B or 6020	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	16:52	SW-846 6010B or 6020	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	SW-846 8081A	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	SW-846 8081A	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	SW-846 6010B or 6020	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	SW-846 8081A and 8270C Extended	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	SW-846 6010B or 6020	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	SW-846 8260B	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		Extended	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	SW-846 8081A and 8270C Extended	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	SW-846 6010B or 6020	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	SW-846 8260B Extended	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	SW-846 6010B or 6020	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	SW-846 8081A	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	SW-846 6010B or 6020	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	SW-846 8081A	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	SW-846 8260B Extended	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	SW-846 8081A and 8270C Extended	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	SW-846 6010B or 6020	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	SW-846 8081A and 8270C Extended	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	SW-846 8260B Extended	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	SW-846 6010B or 6020	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	SW-846 6010B or 6020	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	SW-846 8081A	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	SW-846 6010B or 6020	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	SW-846 8081A	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	SW-846 6010B or 6020	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	SW-846 8081A	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	SW-846 8081A	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	SW-846 6010B or 6020	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	SW-846 6010B or 6020	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	SW-846 8081A	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	SW-846 8081A	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	SW-846 6010B or 6020	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	SW-846 6010B or 6020	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	SW-846 8081A	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	SW-846 8081A	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	SW-846 6010B or 6020	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	SW-846 6010B or 6020	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	SW-846 8081A	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	SW-846 6010B or 6020	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	SW-846 8081A	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	SW-846 6010B or 6020	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	SW-846 8081A	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	SW-846 6010B or 6020	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	SW-846 8081A	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	SW-846 8081A	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	SW-846 6010B or 6020	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	SW-846 8081A	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	SW-846 6010B or 6020	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	SW-846 6010B or 6020	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	SW-846 8081A	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	SW-846 8081A	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	SW-846 6010B or 6020	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	SW-846 8081A	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	SW-846 6010B	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	*Soil*	*Laboratory ID:*	*6L15002-BLK1*	*File ID:*	*122006a-135*
Prepared:	12/15/06 06:01	Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL
Analyzed:	12/21/06 00:33	Instrument:	JMICP1		
Batch:	6L15002	Sequence:	BA00111	Calibration:	0612016

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7440-38-2	Arsenic	0.228	J

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-012

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Soil* ***Instrument:*** *JMICP1*

Analyte	MDL	MRL	Units
Arsenic	0.2	0.5	mg/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-012

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Water* ***Instrument:*** *JMICP1*

Analyte	MDL	MRL	Units
Arsenic	0.004	0.010	mg/L

Sn 189.933	54.8	0.0085	0.00074	mg/L	0.0085	0.00074	mg/L	8.70 %
Sr 421.539R	36,020.7	0.0412	0.00222	mg/L	0.0412	0.00222	mg/L	5.38 %
Ti 337.280	211,553.0	0.2619	0.00328	mg/L	0.2619	0.00328	mg/L	1.25 %
Tl 190.800	-15.2	-0.0030	0.00211	mg/L	-0.0030	0.00211	mg/L	69.17 %
V 292.402	4,724.9	0.0153	0.00029	mg/L	0.0153	0.00029	mg/L	1.90 %
Zn 206.191	659.7	0.0093	0.00011	mg/L	0.0093	0.00011	mg/L	1.23 %

Mean Data

ID: b610375-17 **Seq. No.:** 161 **A/S Pos:** 137

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2006/12/21 03:19:32

Analyte	**Corr. Intensity**	**Conc (Calib)**	**Std. Dev.**	**Calib Units**	**Conc (Sample)**	**Std. Dev.**	**Sample Units**	**RSD**
Y 324.228R	236,311.1	97.2	1.26	%			%	1.29 %
Y361.105A	1,499,072.4	100	0.4	%			%	0.43 %
Ag 338.289	-20.4	0.0006	0.00024	mg/L	0.0006	0.00024	mg/L	37.03 %
Ag 328.068	235.7	0.0008	0.00022	mg/L	0.0008	0.00022	mg/L	27.45 %
Al 308.215	26,176.7	9.10	0.188	mg/L	9.10	0.188	mg/L	2.06 %
As 188.979	68.2	0.0203	0.00082	mg/L	0.0203	0.00082	mg/L	4.03 %
Ba 233.527	56,341.3	0.2570	0.00049	mg/L	0.2570	0.00049	mg/L	0.19 %
Be 313.107	6,333.9	0.0008	0.00002	mg/L	0.0008	0.00002	mg/L	2.83 %
B 208.959	-61.5	-0.0026	0.00033	mg/L	-0.0026	0.00033	mg/L	12.46 %
Ca 317.933	4,614,818.3	16.34	0.019	mg/L	16.34	0.019	mg/L	0.11 %
Ca Radial	504,710.9	16.46	0.612	mg/L	16.46	0.612	mg/L	3.72 %
Cd 226.502	6,619.1	0.0371	0.00025	mg/L	0.0371	0.00025	mg/L	0.67 %
Co 228.616	166.1	0.0017	0.00028	mg/L	0.0017	0.00028	mg/L	16.16 %
Cr 267.716	12,042.8	0.0650	0.00011	mg/L	0.0650	0.00011	mg/L	0.16 %
Cu 324.754	18,271.1	0.0405	0.00043	mg/L	0.0405	0.00043	mg/L	1.07 %

Sample Calc

JAX47-SB087-01-120106

rep result 1.4 mg/kg

$$\left(\frac{0.0203}{1}\right)\left(\frac{50\text{ml}}{1\text{g}}\right)\left(\frac{1}{.709}\right) = 1.43\text{mg/kg}$$

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00111
Calibration: 0612016

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00111-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00111-CCB1	Arsenic	0.00323	0.01	mg/L		EPA 6010B
6L15002-BLK1	Arsenic	0.228	0.5	mg/kg wet		EPA 6010B
BA00111-CCB2	Arsenic	0.00241	0.01	mg/L		EPA 6010B
BA00111-CCB3	Arsenic	0.00249	0.01	mg/L		EPA 6010B
BA00111-CCB4	Arsenic	0.00119	0.01	mg/L		EPA 6010B
BA00111-CCB5	Arsenic	0.00311	0.01	mg/L		EPA 6010B

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-012
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	7A10026-BLK1	File ID:	011107a-029
Prepared:	01/10/07 16:04	Preparation:	EPA 3010A	Initial/Final:	50 mL / 50 mL
Analyzed:	01/11/07 12:20	Instrument:	JMICP1		
Batch:	7A10026	Sequence:	BA00158	Calibration:	0701006

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7440-38-2	Arsenic	0.010	U

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-012
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00158
Calibration: 0701006

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00158-ICB1	Arsenic	0.00	0.010	mg/L		EPA 6010B
BA00158-CCB1	Arsenic	0.00160	0.010	mg/L		EPA 6010B
7A10026-BLK1	Arsenic	0.000665	0.010	mg/L		EPA 6010B
BA00158-CCB2	Arsenic	0.000209	0.010	mg/L		EPA 6010B
BA00158-CCB3	Arsenic	2.74E-5	0.010	mg/L		EPA 6010B

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **MARCH 8, 2007**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- PEST**
CTO 047, NAS JACKSONVILLE
SDG BR006-013

SAMPLES: 5/Solid

JAX47-SB090-03-120106	JAX47-SB090-06-120106	JAX47-SB091-01-120106
JAX47-SB091-04-120106	JAX47-SB091-06-120106	

5/SPLP

JAX47-SB090-03-120106	JAX47-SB090-06-120106	JAX47-SB091-01-120106
JAX47-SB091-04-120106	JAX47-SB091-06-120106	

OVERVIEW

The sample set for CTO 047 NAS Jacksonville, SDG BR006-013 consists of five (5) solid environmental samples and five (5) Synthetic Precipitation Leaching Procedure (SPLP) samples. Two field duplicates were included in this SDG: JAX47-SB091-04-120106 / JAX47-DU02-120106 and JAX47-SB090-03-120106 / JAX47-DU03-120106. The results for samples JAX47-DU02-120106 and JAX47-DU03-120106 are contained in SDG BR006-012.The samples were analyzed for pesticides (PEST) organic compounds.

The samples were collected by TetraTech NUS on December 1, 2006 and analyzed by Environmental Conservation Laboratories, Inc. SPLP extractions and all analyses were conducted in accordance with SW-846 Methods 1312 and 8081A analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
	• Initial/continuing calibrations
	• Laboratory method blank results
	• Surrogate Recoveries
*	• Blank Spike/Blank Spike Duplicate Results
	• Matrix Spike/Matrix Spike Duplicate Results
	• Field Duplicate Results
*	• Compound Quantitation
	• Compound Identification
*	• Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Soil Pesticides

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
4,4'-DDT	0.000167 mg/kg	0.000835 mg/kg

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. The method blank was reported on a wet weight basis. The positive 4,4'-DDT result in sample JAX47-SB090-06-120106 below the blank action level was qualified as non-detected, (U).

Calibration verification percent differences (%Ds) exceeded the 15% quality control limits for heptachlor, alpha-chlordane, 4,4'-DDT, methoxychlor, and endrin ketone on instrument JSVGCECD2, on 12/18/06, at 11:31 for the primary column. The secondary column had %Ds that exceeded the quality control limits for heptachlor, heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDE, endosulfan I, dieldrin, endrin, 4,4'-DDD, endosulfan II, 4,4'-DDT, methoxychlor, and endrin ketone. The positive and non-detected results for heptachlor, alpha-chlordane, 4,4'-DDT, methoxychlor, and endrin ketone in sample JAX47-SB090-06-120106 have been qualified as estimated (J) and (UJ), respectively. No action was taken on the remaining compounds because the %Ds met control limits on the primary column.

Calibration verification percent differences (%Ds) exceeded the 15% quality control limits for aldrin and endrin aldehyde on instrument JSVGCECD2, on 12/18/06, at 18:39 for the primary column. The secondary column had %Ds that exceeded the quality control limits for heptachlor, endosulfan I, and endrin. No action was taken on this basis because the %Ds met control limits on the primary column or secondary column for all compounds.

Calibration verification percent differences (%Ds) exceeded the 15% quality control limits for 4,4'-DDE, 4,4'-DDT, and methoxychlor on instrument JSVGCECD2, on 12/19/06, at 12:04 for the primary column. The secondary column had %Ds that exceeded the quality control limits for heptachlor epoxide, gamma-chlordane, alpha-chlordane, 4,4'-DDE, endosulfan I, dieldrin, endosulfan II, 4,4'-DDT, methoxychlor, endosulfan sulfate, and endrin ketone. The positive results for 4,4'-DDE and 4,4'-DDT in sample JAX47-SB091-04-120106 have been qualified as estimated (J). No action was taken on the remaining compounds because they were not reported from the diluted run for sample JAX47-SB091-04-120106.

Calibration verification percent differences (%Ds) exceeded the 15% quality control limits for 4,4'-DDT and methoxychlor on instrument JSVGCECD2, on 12/19/06, at 16:22 for the primary column. The secondary column had %Ds that exceeded the quality control limits for 4,4'-DDT and methoxychlor. The positive result for 4,4'-DDT in sample JAX47-SB091-04-120106 has been qualified as estimated (J). No action was taken on the remaining compounds because they were not reported from the diluted run for sample JAX47-SB091-04-120106.

Calibration verification percent differences (%Ds) exceeded the 15% quality control limits for alpha-chlordane and methoxychlor on instrument JSVGCECD2, on 1/09/07, at 11:04 for the primary column. The secondary column had %Ds that exceeded the quality control limits for aldrin, heptachlor epoxide, gamma-chlordane, alpha-chlordane, endosulfan I, dieldrin, endosulfan II, 4,4'-DDT, and methoxychlor. The positive and non-detected results for alpha-chlordane and methoxychlor in the associated samples have been qualified as estimated (J) and (UJ), respectively. The positive heptachlor epoxide result for sample JAX47-SB091-04-120106 was qualified as estimated (J) because it was reported from the secondary column. No action was taken on the remaining compounds because the %Ds met control limits on the primary column.

The surrogate tetrachloro-m-xylene had percent recoveries less than the quality control limit for samples JAX47-SB-91-06-120106 and JAX47-SB-91-04-120106 on both columns. The positive and non-detected results for samples JAX47-SB-91-06-120106 and JAX47-SB-91-04-120106 have been qualified as estimated (J) and (UJ), respectively.

The surrogate tetrachloro-m-xylene had a percent recovery less than the quality control limit for sample JAX47-SB-91-01-120106 on the confirmation column. No action was taken on this basis because the results were

reported from the primary column.

The field duplicate precision exceeded the 50% relative percent difference (RPD) quality control limit for 4,4'-DDT and gamma-chlordane in the field duplicate pair JAX47-SB090-03-120106 / JAX47-DU03-120106. Positive results for 4,4'-DDT and gamma-chlordane in the duplicate samples JAX47-SB090-03-120106 / JAX47-DU03-120106 were qualified as estimated (J).

The field duplicate precision exceeded the 50% relative percent difference (RPD) quality control criteria or was greater than 2X the reporting limit for beta-BHC and delta-BHC in the field duplicate pair JAX47-SB091-04-120106 / JAX47-DU02-120106. The positive and non-detected results for beta-BHC and delta-BHC in the duplicate samples JAX47-SB091-04-120106 / JAX47-DU02-120106 were qualified as estimated (J) and (UJ), respectively.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample JAX47-SB091-04-120106 had percent recoveries less than the quality control limit for delta-BHC, 4,4'-DDE, and 4,4'-DDT in the MS and MSD. No action was taken on this basis because the pesticide concentrations for delta-BHC, 4,4'-DDE, and 4,4'-DDT were at least 2X the spike added amount. The MS/MSD recoveries for 4,4'-DDD were greater than the quality control limit. The positive result for 4,4'-DDD has been qualified as estimated (J) in sample JAX47-SB091-04-120106. The MSD recoveries for alpha-BHC, gamma-BHC, beta-BHC, heptachlor epoxide, gamma-chlordane, alpha-chlordane, dieldrin, endrin, endosulfan sulfate, and endrin ketone were less than the quality control limit. No action was taken on this basis because the MS had acceptable recoveries.

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for several compounds in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	% Difference	Qualification
JAX47-SB090-06-120106	Dieldrin	33.3%	J
JAX47-SB091-01-120106	Endrin aldehyde	60.2%	J
JAX47-SB091-04-120106	Endrin ketone	28.9%	J
	Heptachlor epoxide	62.5%	J
JAX47-SB091-04-120106	gamma-BHC	110%	J
	Endosulfan sulfate	287%	J

SPLP Pesticides

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample JAX47-SB091-04-120106 had percent recoveries greater than the quality than the quality control limit for beta-BHC in the MS and MSD. No action was taken on this basis because the pesticide concentration for beta-BHC was approximately 7X the spike added amount.

Calibration verification percent differences (%Ds) exceeded the 15% quality control limits for beta-BHC and delta-BHC on instrument JSVGCECD2, on 1/13/07, at 17:20 for the secondary column. No action was taken on this basis because all compounds met control limits for the primary column.

Calibration verification percent differences (%Ds) exceeded the 15% quality control limits for beta-BHC and delta-BHC on instrument JSVGCECD2, on 1/13/07, at 22:04 for the primary column. The secondary column had %Ds that exceeded the quality control limits for beta-BHC, delta-BHC, and endrin. The non-detected results for beta-BHC and delta-BHC in sample JAX47-SB091-01-120106 have been qualified as estimated (UJ). No action was taken on the endrin results because the primary column met the control limit.

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for several compounds in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	% Difference	Qualification
JAX47-SB090-03-120106	Dieldrin	33.3%	J
JAX47-SB091-04-120106	gamma-Chlordane	72.7%	J
JAX47-SB090-03-120106	alpha-Chlordane	150%	J
	Endosulfan II	157%	J
JAX47-SB090-06-120106	gamma-Chlordane	267%	J
	alpha-Chlordane	150%	J
	Heptachlor epoxide	350%	J
JAX47-SB091-01-120106	alpha-Chlordane	107%	J
JAX47-SB091-04-120106	Methoxychlor	150%	J
	alpha-Chlordane	243%	J
JAX47-SB091-06-120106	alpha-Chlordane	175%	J

Additional Comments:

Soil sample JAX47-SB091-04-120106 required a 10X dilution for beta-BHC, delta-BHC, 4,4'-DDE, and 4,4'-DDT because of concentrations greater than the linear calibration range of the instrument. All other compounds were reported from the undiluted analysis.

SPLP sample JAX47-SB091-04-120106 required a 20X dilution for beta-BHC and delta-BHC because of concentrations greater than the linear calibration range of the instrument. All other compounds were reported from the undiluted analysis.

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: The compound 4,4'-DDT was detected in the soil method blank. Several compounds for soil and SPLP samples exceeded the continuing calibration %D criteria resulting in qualification of the data.

Other Factors Affecting Data Quality: Several soil surrogate and matrix spike percent recoveries had non-compliances resulting in the qualification of data. Percent difference between columns for soil and SPLP samples exceeded criteria for several compounds resulting in qualification of the data.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999), and Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-013 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB090-03-120106	nsample	JAX47-SB090-06-120106	nsample	JAX47-SB091-01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610377-01	lab_id	B610377-02	lab_id	B610377-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	93.9	Pct_Solids	93.9	Pct_Solids	91.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00032	U	
4,4'-DDE	0.0023		
4,4'-DDT	0.002	J	G
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.00028	U	
BETA-BHC	0.00035	U	
DELTA-BHC	0.00018	U	
DIELDRIN	0.00025	U	
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.00039	U	
ENDRIN ALDEHYDE	0.00018	U	
ENDRIN KETONE	0.00032	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.00043	J	GP
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.0006	U	
METHOXYCHLOR	0.00035	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0036		
4,4'-DDE	0.00035	U	
4,4'-DDT	0.0006	U	A
ALDRIN	0.00021	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.00053	J	CP
BETA-BHC	0.00085	J	P
DELTA-BHC	0.00018	U	
DIELDRIN	0.00043	J	PU
ENDOSULFAN I	0.00028	U	
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00028	U	
ENDRIN	0.00039	U	
ENDRIN ALDEHYDE	0.00018	U	
ENDRIN KETONE	0.0006	J	CP
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.00025	U	
HEPTACHLOR	0.00025	UJ	C
HEPTACHLOR EPOXIDE	0.0006	U	
METHOXYCHLOR	0.00035	UJ	C
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0019		
4,4'-DDE	0.0052		
4,4'-DDT	0.008		
ALDRIN	0.00022	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.00059	J	P
BETA-BHC	0.00037	J	P
DELTA-BHC	0.00018	U	
DIELDRIN	0.00029	J	P
ENDOSULFAN I	0.00029	U	
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00029	U	
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00029	J	PU
ENDRIN KETONE	0.00033	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.00077	J	P
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.00062	U	
METHOXYCHLOR	0.00036	U	
TOXAPHENE	0.0018	U	

PROJ_NO: 00497

SDG: BR006-013 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB091-04-120106
samp_date	12/1/2006
lab_id	B610377-04
qc_type	NM
units	MG/KG
Pct_Solids	74.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.014	J	DR
ALDRIN	0.00026	UJ	R
ALPHA-BHC	0.0004	J	PR
ALPHA-CHLORDANE	0.0045	J	U
DIELDRIN	0.039	J	R
ENDOSULFAN I	0.00035	UJ	R
ENDOSULFAN II	0.00031	UJ	R
ENDOSULFAN SULFATE	0.00067	J	PU
ENDRIN	0.00049	UJ	R
ENDRIN ALDEHYDE	0.00049	J	PR
ENDRIN KETONE	0.0011	J	PRU
GAMMA-BHC (LINDANE)	0.00049	J	PU
GAMMA-CHLORDANE	0.0035	J	PR
HEPTACHLOR	0.00031	UJ	R
HEPTACHLOR EPOXIDE	0.0023	J	CRU
METHOXYCHLOR	0.00044	UJ	R
TOXAPHENE	0.0022	UJ	R

nsample	JAX47-SB091-04-120106-RE1
samp_date	12/1/2006
lab_id	B610377-04RE1
qc_type	NM
units	MG/KG
Pct_Solids	74.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDE	0.083	J	C
4,4'-DDT	0.25	J	C
BETA-BHC	0.24	J	G
DELTA-BHC	0.23	J	G

nsample	JAX47-SB091-06-120106
samp_date	12/1/2006
lab_id	B610377-05
qc_type	NM
units	MG/KG
Pct_Solids	84.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00035	UJ	R
4,4'-DDE	0.00067	J	PR
4,4'-DDT	0.0013	J	PR
ALDRIN	0.00024	UJ	R
ALPHA-BHC	0.00016	UJ	R
ALPHA-CHLORDANE	0.00031	UJ	R
BETA-BHC	0.0019	J	PR
DELTA-BHC	0.0013	J	PR
DIELDRIN	0.00048	J	PR
ENDOSULFAN I	0.00031	UJ	R
ENDOSULFAN II	0.00027	UJ	R
ENDOSULFAN SULFATE	0.00031	UJ	R
ENDRIN	0.00043	UJ	R
ENDRIN ALDEHYDE	0.0002	UJ	R
ENDRIN KETONE	0.00035	UJ	R
GAMMA-BHC (LINDANE)	0.0002	UJ	R
GAMMA-CHLORDANE	0.00027	UJ	R
HEPTACHLOR	0.00027	UJ	R
HEPTACHLOR EPOXIDE	0.00067	UJ	R
METHOXYCHLOR	0.00039	UJ	R
TOXAPHENE	0.002	UJ	R

PROJ_NO: 00497

SDG: BR006-013 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB090-03-120106	nsample	JAX47-SB090-06-120106	nsample	JAX47-SB091-01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610377-01	lab_id	B610377-02	lab_id	B610377-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	93.9	Pct_Solids	93.9	Pct_Solids	91.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.037	J	P
4,4'-DDE	0.003	J	P
4,4'-DDT	0.017	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.01	J	U
BETA-BHC	0.019	J	P
DELTA-BHC	0.005	J	P
DIELDRIN	0.004	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.018	J	U
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.005	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.039	J	P
4,4'-DDE	0.003	J	P
4,4'-DDT	0.017	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.02	J	PU
BETA-BHC	0.029	J	P
DELTA-BHC	0.003	J	P
DIELDRIN	0.011	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.044	J	PU
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.004	J	PU
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.023	J	P
4,4'-DDE	0.007	J	P
4,4'-DDT	0.015	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.031	J	PU
BETA-BHC	0.002	UJ	C
DELTA-BHC	0.001	UJ	C
DIELDRIN	0.009	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.016	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-013 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	JAX47-SB091-04-120106	nsample	JAX47-SB091-06-120106
samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610377-04	lab_id	B610377-05
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids	74.7	Pct_Solids	84.0
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.057		
4,4'-DDE	0.023	J	P
4,4'-DDT	0.098		
ALDRIN	0.002	U	
ALPHA-BHC	0.013	J	P
ALPHA-CHLORDANE	0.024	J	PU
BETA-BHC	7.52		
DELTA-BHC	3.84		
DIELDRIN	0.126		
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.009	J	P
GAMMA-BHC (LINDANE)	0.011	J	P
GAMMA-CHLORDANE	0.019	J	PU
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.008	J	P
METHOXYCHLOR	0.01	J	PU
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.044	J	P
4,4'-DDE	0.003	J	P
4,4'-DDT	0.021	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.011	J	PU
BETA-BHC	0.089		
DELTA-BHC	0.026	J	P
DIELDRIN	0.017	J	P
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.005	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB090-03-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-01	File ID:	9ACA014-0
Sampled:	12/01/06 11:29	Prepared:	12/15/06 09:42	Analyzed:	01/09/07 11:56
Solids:	93.91	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L15003 Sequence: BA00103 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.0018	U
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-alpha	1	0.0018	U
72-55-9	4,4´-DDE	1	0.0023	
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.0018	U
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4´-DDD	1	0.0018	U
33213-65-9	Endosulfan II	1	0.0018	U
50-29-3	4,4´-DDT	1	0.0020	
7421-93-4	Endrin aldehyde	1	0.0018	U
72-43-5	Methoxychlor	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.035	U
NA	Chlordane-gamma	1	0.0018	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0355	0.0248	70	70 - 125	
DBC	0.0355	0.0251	71	55 - 150	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB090-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-02	File ID:	9LLA006-0
Sampled:	12/01/06 11:39	Prepared:	12/15/06 09:42	Analyzed:	12/18/06 13:14
Solids:	93.86	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L15003 Sequence: BA00103 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.00085	J
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.0018	U
NA	Chlordane-alpha	1	0.00053	J
72-55-9	4,4'-DDE	1	0.0018	U
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.00043	JP
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0036	
33213-65-9	Endosulfan II	1	0.0018	U
50-29-3	4,4'-DDT	1	0.00060	J
7421-93-4	Endrin aldehyde	1	0.0018	U
72-43-5	Methoxychlor	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.00060	J
8001-35-2	Toxaphene	1	0.035	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0355	0.0269	76	70 - 125	
DBC	0.0355	0.0275	78	55 - 130	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-03	File ID:	9ACA015-0
Sampled:	12/01/06 11:09	Prepared:	12/15/06 09:42	Analyzed:	01/09/07 12:22
Solids:	90.98	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L15003	Sequence:	BA00103	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0018	U
58-89-9	gamma-BHC	1	0.0018	U
319-85-7	beta-BHC	1	0.00037	J
319-86-8	delta-BHC	1	0.0018	U
76-44-8	Heptachlor	1	0.0018	U
309-00-2	Aldrin	1	0.0018	U
1024-57-3	Heptachlor epoxide	1	0.0018	U
NA	Chlordane-gamma	1	0.00077	J
NA	Chlordane-alpha	1	0.00059	J
72-55-9	4,4'-DDE	1	0.0052	
959-98-8	Endosulfan I	1	0.0018	U
60-57-1	Dieldrin	1	0.00029	J
72-20-8	Endrin	1	0.0018	U
72-54-8	4,4'-DDD	1	0.0019	
33213-65-9	Endosulfan II	1	0.0018	U
50-29-3	4,4'-DDT	1	0.0080	
7421-93-4	Endrin aldehyde	1	0.00029	JP
72-43-5	Methoxychlor	1	0.0018	U
1031-07-8	Endosulfan sulfate	1	0.0018	U
53494-70-5	Endrin ketone	1	0.0018	U
8001-35-2	Toxaphene	1	0.036	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0366	0.0262	71	70 - 125	
DBC	0.0366	0.0263	72	55 - 150	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-04-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-04	File ID:	9ACA016-0
Sampled:	12/01/06 11:15	Prepared:	12/15/06 09:42	Analyzed:	01/09/07 12:47
Solids:	74.73	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L15003	Sequence:	BA00103	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.00040	J
58-89-9	gamma-BHC	1	0.00049	JP
76-44-8	Heptachlor	1	0.0022	U
309-00-2	Aldrin	1	0.0022	U
NA	Chlordane-gamma	1	0.0035	
NA	Chlordane-alpha	1	0.0045	
959-98-8	Endosulfan I	1	0.0022	U
60-57-1	Dieldrin	1	0.039	
72-20-8	Endrin	1	0.0022	U
72-54-8	4,4'-DDD	1	0.014	
33213-65-9	Endosulfan II	1	0.0022	U
7421-93-4	Endrin aldehyde	1	0.00049	J
72-43-5	Methoxychlor	1	0.0022	U
1031-07-8	Endosulfan sulfate	1	0.00067	JP
53494-70-5	Endrin ketone	1	0.0011	JP
8001-35-2	Toxaphene	1	0.044	U
1024-57-3	Heptachlor epoxide	1	0.0014	JP

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0446	0.0305	68	70 - 125	*
DBC	0.0446	0.0364	82	55 - 150	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-04-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-04RE1	File ID:	9LNA012-0
Sampled:	12/01/06 11:15	Prepared:	12/15/06 09:42	Analyzed:	12/19/06 15:56
Solids:	74.73	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	6L15003	Sequence:	BA00103	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-85-7	beta-BHC	10	0.24	D
319-86-8	delta-BHC	10	0.23	D
72-55-9	4,4′-DDE	10	0.083	D
50-29-3	4,4′-DDT	10	0.25	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-05	File ID:	9ACA013-0
Sampled:	12/01/06 11:22	Prepared:	12/15/06 09:42	Analyzed:	01/09/07 11:30
Solids:	84.00	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Batch: 6L15003 Sequence: BA00103 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
319-84-6	alpha-BHC	1	0.0020	U
58-89-9	gamma-BHC	1	0.0020	U
319-85-7	beta-BHC	1	0.0019	J
319-86-8	delta-BHC	1	0.0013	J
76-44-8	Heptachlor	1	0.0020	U
309-00-2	Aldrin	1	0.0020	U
1024-57-3	Heptachlor epoxide	1	0.0020	U
NA	Chlordane-gamma	1	0.0020	U
NA	Chlordane-alpha	1	0.0020	U
72-55-9	4,4'-DDE	1	0.00067	J
959-98-8	Endosulfan I	1	0.0020	U
60-57-1	Dieldrin	1	0.00048	J
72-20-8	Endrin	1	0.0020	U
72-54-8	4,4'-DDD	1	0.0020	U
33213-65-9	Endosulfan II	1	0.0020	U
50-29-3	4,4'-DDT	1	0.0013	J
7421-93-4	Endrin aldehyde	1	0.0020	U
72-43-5	Methoxychlor	1	0.0020	U
1031-07-8	Endosulfan sulfate	1	0.0020	U
53494-70-5	Endrin ketone	1	0.0020	U
8001-35-2	Toxaphene	1	0.039	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0397	0.0266	67	70 - 125	*
DBC	0.0397	0.0267	67	55 - 150	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB090-03-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-01	File ID:	9AKA018-0
Sampled:	12/01/06 11:29	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 18:00
Solids:	93.91	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L21007 Sequence: BA00173 Calibration: 0701020 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.019	J
319-86-8	delta-BHC	1	0.005	J
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.005	J
72-55-9	4,4'-DDE	1	0.003	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.004	JP
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.037	J
33213-65-9	Endosulfan II	1	0.018	JP
50-29-3	4,4'-DDT	1	0.017	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.004	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.977	98	25 - 140	
DBC	1.00	0.948	95	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB090-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-02	File ID:	9AKA019-0
Sampled:	12/01/06 11:39	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 18:26
Solids:	93.86	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21007	Sequence:	BA00173	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.029	J
319-86-8	delta-BHC	1	0.003	J
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.004	JP
72-55-9	4,4′-DDE	1	0.003	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.011	J
72-20-8	Endrin	1	0.050	U
72-54-8	4,4′-DDD	1	0.039	J
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4′-DDT	1	0.017	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-gamma	1	0.012	JP
NA	Chlordane-alpha	1	0.008	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.943	94	25 - 140	
DBC	1.00	0.942	94	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-01-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-03	File ID:	9AGA031-0
Sampled:	12/01/06 11:09	Prepared:	12/19/06 18:06	Analyzed:	01/13/07 20:46
Solids:	90.98	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21007	Sequence:	BA00173	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.016	J
72-55-9	4,4´-DDE	1	0.007	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.009	J
72-20-8	Endrin	1	0.050	U
72-54-8	4,4´-DDD	1	0.023	J
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4´-DDT	1	0.015	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.015	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.912	91	25 - 140	
DBC	1.00	0.772	77	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-04-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-04	File ID:	9AGA032-0
Sampled:	12/01/06 11:15	Prepared:	12/19/06 18:06	Analyzed:	01/13/07 21:12
Solids:	74.73	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21007	Sequence:	BA00173	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.013	J
58-89-9	gamma-BHC	1	0.011	J
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.008	J
NA	Chlordane-gamma	1	0.019	JP
72-55-9	4,4'-DDE	1	0.023	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.126	
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.057	
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.098	
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.010	JP
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.009	J
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-alpha	1	0.007	JP

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.836	84	25 - 140	
DBC	1.00	0.677	68	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-04-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-013	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610377-04RE1	File ID:	9AKB017-0
Sampled:	12/01/06 11:15	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 17:34
Solids:	74.73	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21007	Sequence:	BA00173	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-85-7	beta-BHC	20	7.52	D
319-86-8	delta-BHC	20	3.84	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-06-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-05	File ID:	9AKA020-0
Sampled:	12/01/06 11:22	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 18:52
Solids:	84.00	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Batch: 6L21007 Sequence: BA00173 Calibration: 0701020 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.089	
319-86-8	delta-BHC	1	0.026	J
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-alpha	1	0.011	JP
72-55-9	4,4'-DDE	1	0.003	J
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.017	J
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.044	J
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.021	J
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.00	U
NA	Chlordane-gamma	1	0.005	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	1.01	101	25 - 140	
DBC	1.00	0.902	90	30 - 135	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-013

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/L	JAX47-SB090-06-120106	B610377-02	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
M	MG/L	JAX47-SB091-01-120106	B610377-03	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
M	MG/L	JAX47-SB091-04-120106	B610377-04	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
M	MG/L	JAX47-SB091-06-120106	B610377-05	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
M	MG/L	JAX47-SB090-03-120106	B610377-01	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
PEST	%	JAX47-SB091-04-120106	B610377-04	NM	12/1/2006	12/19/2006	1/13/2007	18	25	43
PEST	%	JAX47-SB090-03-120106	B610377-01	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
PEST	%	JAX47-SB091-01-120106	B610377-03	NM	12/1/2006	12/19/2006	1/13/2007	18	25	43
PEST	%	JAX47-SB091-06-120106	B610377-05	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
PEST	%	JAX47-SB090-06-120106	B610377-02	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
PEST	UG/L	JAX47-SB091-06-120106	B610377-05	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
PEST	UG/L	JAX47-SB090-03-120106	B610377-01	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
PEST	UG/L	JAX47-SB090-06-120106	B610377-02	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
PEST	UG/L	JAX47-SB091-01-120106	B610377-03	NM	12/1/2006	12/19/2006	1/13/2007	18	25	43
PEST	UG/L	JAX47-SB091-04-120106	B610377-04	NM	12/1/2006	12/19/2006	1/13/2007	18	25	43

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	UG/L	JAX47-SB091-04-120106	B610377-04RE1	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46

FOLDTIME

SDG BR006-013

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPM	MG/L	JAX47-SB090-06-120106	B610377-02	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB091-01-120106	B610377-03	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB091-04-120106	B610377-04	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB091-06-120106	B610377-05	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPM	MG/L	JAX47-SB090-03-120106	B610377-01	NM	12/1/2006	1/10/2007	1/11/2007	40	1	41
SPLPP	%	JAX47-SB091-04-120106	B610377-04	NM	12/1/2006	12/19/2006	1/13/2007	18	25	43
SPLPP	%	JAX47-SB090-03-120106	B610377-01	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	%	JAX47-SB091-01-120106	B610377-03	NM	12/1/2006	12/19/2006	1/13/2007	18	25	43
SPLPP	%	JAX47-SB091-06-120106	B610377-05	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	%	JAX47-SB090-06-120106	B610377-02	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB091-06-120106	B610377-05	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB090-03-120106	B610377-01	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB090-06-120106	B610377-02	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46
SPLPP	UG/L	JAX47-SB091-01-120106	B610377-03	NM	12/1/2006	12/19/2006	1/13/2007	18	25	43
SPLPP	UG/L	JAX47-SB091-04-120106	B610377-04	NM	12/1/2006	12/19/2006	1/13/2007	18	25	43

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SPLPP	UG/L	JAX47-SB091-04-120106	B610377-04RE1	NM	12/1/2006	12/19/2006	1/16/2007	18	28	46

NAS JACKSONVILLE
SOIL DATA
BR006-013 AND BR006-012

FRACTION	CHEMICAL	JAX47-SB090-03-120106	UNITS	JAX47-DU03-120106	RPD	D	
PEST/PCB	4,4'-DDD	ND	MG/KG	0.00067 J	NC	NC	
PEST/PCB	4,4'-DDE	0.0023	MG/KG	0.0038	49.18	0.00	
PEST/PCB	4,4'-DDT	0.002	MG/KG	0.0064	104.76	0.00	J
PEST/PCB	ALPHA-CHLORDANE	ND	MG/KG	0.0014 J	NC	NC	
PEST/PCB	DIELDRIN	ND	MG/KG	0.00042 J	NC	NC	
PEST/PCB	ENDOSULFAN I	ND	MG/KG	0.00039 J	NC	NC	
PEST/PCB	ENDOSULFAN II	ND	MG/KG	0.0011 J	NC	NC	
PEST/PCB	GAMMA-CHLORDANE	0.00043 J	MG/KG	0.0017 JP	119.25	0.00	J

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.
ND = Compound not detected.
NC = Statistic not calculated

NAS JACKSONVILLE
SOIL DATA
BR006-013 AND BR006-012

FRACTION	CHEMICAL	JAX47-SB091-04-120106	UNITS	JAX47-DU02-120106	RPD	D
PEST/PCB	4,4'-DDD	0.014 J	MG/KG	0.011	24.00	0.00
PEST/PCB	4,4'-DDE	ND	MG/KG	0.032	NC	NC
PEST/PCB	4,4'-DDT	ND	MG/KG	0.21 D	NC	NC
PEST/PCB	ALPHA-BHC	0.0004 J	MG/KG	0.00087 J	74.02	0.00
PEST/PCB	ALPHA-CHLORDANE	ND	MG/KG	0.0053	NC	NC
PEST/PCB	BETA-BHC	ND	MG/KG	0.42 D	NC	NC
PEST/PCB	DELTA-BHC	ND	MG/KG	0.43 D	NC	NC
PEST/PCB	DIELDRIN	0.039 J	MG/KG	ND	NC	NC
PEST/PCB	ENDOSULFAN SULFATE	ND	MG/KG	0.00042 J	NC	NC
PEST/PCB	ENDRIN	ND	MG/KG	0.0008 J	NC	NC
PEST/PCB	ENDRIN ALDEHYDE	0.00049 J	MG/KG	0.0015 J	101.51	0.00
PEST/PCB	ENDRIN KETONE	0.0011 J	MG/KG	0.0011 J	0.00	0.00
PEST/PCB	GAMMA-BHC (LINDANE)	ND	MG/KG	0.00056 JP	NC	NC
PEST/PCB	GAMMA-CHLORDANE	0.0035 J	MG/KG	0.0059	51.06	0.00
PEST/PCB	HEPTACHLOR EPOXIDE	0.0023 J	MG/KG	0.0018 P	24.39	0.00
PEST/PCB	METHOXYCHLOR	ND	MG/KG	0.0056	NC	NC

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.
ND = Compound not detected.
NC = Statistic not calculated

NAS JACKSONVILLE
SOIL DATA
BR006-013 AND BR006-012

FRACTION	CHEMICAL	X47-SB091-04-120106-RI	UNITS	JAX47-DU02-120106	RPD	D
PEST/PCB	4,4'-DDD	ND	MG/KG	0.011	NC	NC
PEST/PCB	4,4'-DDE	0.083 J	MG/KG	0.032	88.70	0.05
PEST/PCB	4,4'-DDT	0.25 J	MG/KG	0.21	17.39	0.04
PEST/PCB	ALPHA-BHC	ND	MG/KG	0.00087 J	NC	NC
PEST/PCB	ALPHA-CHLORDANE	ND	MG/KG	0.0053	NC	NC
PEST/PCB	BETA-BHC	0.24 J	MG/KG	0.42	54.55	0.18
PEST/PCB	DELTA-BHC	0.23 J	MG/KG	0.43 D	60.61	0.20
PEST/PCB	ENDOSULFAN SULFATE	ND	MG/KG	0.00042 J	NC	NC
PEST/PCB	ENDRIN	ND	MG/KG	0.0008 J	NC	NC
PEST/PCB	ENDRIN ALDEHYDE	ND	MG/KG	0.0015 J	NC	NC
PEST/PCB	ENDRIN KETONE	ND	MG/KG	0.0011 J	NC	NC
PEST/PCB	GAMMA-BHC (LINDANE)	ND	MG/KG	0.00056 JP	NC	NC
PEST/PCB	GAMMA-CHLORDANE	ND	MG/KG	0.0059	NC	NC
PEST/PCB	HEPTACHLOR EPOXIDE	ND	MG/KG	0.0018 P	NC	NC
PEST/PCB	METHOXYCHLOR	ND	MG/KG	0.0056	NC	NC

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.
ND = Compound not detected.
NC = Statistic not calculated

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-013

Lab Sample ID	Client Sample ID
B610377-01	JAX47-SB090-03-120106
B610377-02	JAX47-SB090-06-120106
B610377-03	JAX47-SB091-01-120106
B610377-04	JAX47-SB091-04-120106
B610377-05	JAX47-SB091-06-120106

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-Volatiles

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- JAX47-SB091-01-20106 was submitted for EPA method 8081A but was not requested on the Chain of Custody form. This sample was analyzed per client request.
- Surrogate 2,4,5,6-TCMX for JAX47-SB091-04-120106 and JAX47-SB091-06-120106 was outside the DoD QSM control limits. The data was accepted based on the surrogate DBC being within the DoD QSM control limits.
- 4,4 DDT for Continuing Calibration Verification Standard 4 resulted outside and below the DoD QSM limit. Any sample result associated with this standard/compound is considered to be estimated bias low.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins

Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.17 08:35:08 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By: **Chuck Metz**	Date: 12/01/2006	Time: 15:50	Received By: **Hand Deliver**	Date: 12/01/2006	Time: 16:50
2. Relinquished By:	Date:	Time:	Received By:	Date: 12/1/06	Time: 16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-013

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB090-03-120106	B610377-01
JAX47-SB090-06-120106	B610377-02
JAX47-SB091-01-120106	B610377-03
JAX47-SB091-04-120106	B610377-04
JAX47-SB091-04-120106	B610377-04RE1
JAX47-SB091-06-120106	B610377-05

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.17 08:36:28 -05'00'

Name: Christina Tompkins

Date: 01/16/07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-013

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.00013	0.0017	mg/kg
gamma-BHC	0.00016	0.0017	mg/kg
beta-BHC	0.00033	0.0017	mg/kg
delta-BHC	0.00016	0.0017	mg/kg
Heptachlor	0.00023	0.0017	mg/kg
Aldrin	0.00020	0.0017	mg/kg
Heptachlor epoxide	0.00056	0.0017	mg/kg
Chlordane-gamma	0.00023	0.0017	mg/kg
Chlordane-alpha	0.00026	0.0017	mg/kg
4,4′-DDE	0.00033	0.0017	mg/kg
Endosulfan I	0.00026	0.0017	mg/kg
Dieldrin	0.00023	0.0017	mg/kg
Endrin	0.00036	0.0017	mg/kg
4,4′-DDD	0.00030	0.0017	mg/kg
Endosulfan II	0.00023	0.0017	mg/kg
4,4′-DDT	0.00013	0.0017	mg/kg
Endrin aldehyde	0.00016	0.0017	mg/kg
Methoxychlor	0.00033	0.0017	mg/kg
Endosulfan sulfate	0.00026	0.0017	mg/kg
Endrin ketone	0.00030	0.0017	mg/kg
Toxaphene	0.0016	0.033	mg/kg
alpha-BHC [2C]	0.00013	0.0017	mg/kg
gamma-BHC [2C]	0.00016	0.0017	mg/kg
beta-BHC [2C]	0.00033	0.0017	mg/kg
delta-BHC [2C]	0.00016	0.0017	mg/kg
Heptachlor [2C]	0.00023	0.0017	mg/kg
Aldrin [2C]	0.00020	0.0017	mg/kg
Heptachlor epoxide [2C]	0.00056	0.0017	mg/kg
Chlordane-gamma [2C]	0.00023	0.0017	mg/kg
Chlordane-alpha [2C]	0.00026	0.0017	mg/kg
4,4'-DDE [2C]	0.00033	0.0017	mg/kg
Endosulfan I [2C]	0.00026	0.0017	mg/kg
Dieldrin [2C]	0.00023	0.0017	mg/kg
Endrin [2C]	0.00036	0.0017	mg/kg
4,4'-DDD [2C]	0.00030	0.0017	mg/kg
Endosulfan II [2C]	0.00023	0.0017	mg/kg
4,4'-DDT [2C]	0.00013	0.0017	mg/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-013

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Soil **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.00016	0.0017	mg/kg
Methoxychlor [2C]	0.00033	0.0017	mg/kg
Endosulfan sulfate [2C]	0.00026	0.0017	mg/kg
Endrin ketone [2C]	0.00030	0.0017	mg/kg
Toxaphene [2C]	0.0016	0.033	mg/kg

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-013

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L15003 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L15003-BLK1	9LLB004A-0	12/15/06 09:42	
Blank	6L15003-BLK1	9LLA004A-0	12/15/06 09:42	
LCS	6L15003-BS1	9LLB005A-0	12/15/06 09:42	
LCS	6L15003-BS1	9LLA005A-0	12/15/06 09:42	
JAX47-SB091-04-120106	6L15003-MS1	9LNB010-0	12/15/06 09:42	
JAX47-SB091-04-120106	6L15003-MS1	9LNA010-0	12/15/06 09:42	
JAX47-SB091-04-120106	6L15003-MSD1	9LNA011-0	12/15/06 09:42	
JAX47-SB091-04-120106	6L15003-MSD1	9LNB011-0	12/15/06 09:42	
JAX47-SB090-03-120106	B610377-01	9ACA014-0	12/15/06 09:42	
JAX47-SB090-03-120106	B610377-01	9ACB014-0	12/15/06 09:42	
JAX47-SB090-06-120106	B610377-02	9LLA006-0	12/15/06 09:42	
JAX47-SB090-06-120106	B610377-02	9LLB006-0	12/15/06 09:42	
JAX47-SB091-01-120106	B610377-03	9ACB015-0	12/15/06 09:42	
JAX47-SB091-01-120106	B610377-03	9ACA015-0	12/15/06 09:42	
JAX47-SB091-04-120106	B610377-04	9ACB016-0	12/15/06 09:42	MS/MSD sample
JAX47-SB091-04-120106	B610377-04	9ACA016-0	12/15/06 09:42	MS/MSD sample
JAX47-SB091-04-120106	B610377-04RE1	9LNB012-0	12/15/06 09:42	MS/MSD sample
JAX47-SB091-04-120106	B610377-04RE1	9LNA012-0	12/15/06 09:42	MS/MSD sample
JAX47-SB091-06-120106	B610377-05	9ACA013-0	12/15/06 09:42	
JAX47-SB091-06-120106	B610377-05	9ACB013-0	12/15/06 09:42	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00103	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00103-IBL3	9ACB010-0	01/09/07 10:13
Instrument Blank	BA00103-IBL3	9ACA010-0	01/09/07 10:13
Performance Mix	BA00103-PEM3	9ACB011-0	01/09/07 10:38
Performance Mix	BA00103-PEM3	9ACA011-0	01/09/07 10:38
Calibration Check	BA00103-CCV5	9ACB012-0	01/09/07 11:04
Calibration Check	BA00103-CCV5	9ACA012-0	01/09/07 11:04
JAX47-SB091-06-120106	B610377-05	9ACB013-0	01/09/07 11:30
JAX47-SB091-06-120106	B610377-05	9ACA013-0	01/09/07 11:30
JAX47-SB090-03-120106	B610377-01	9ACB014-0	01/09/07 11:56
JAX47-SB090-03-120106	B610377-01	9ACA014-0	01/09/07 11:56
JAX47-SB091-01-120106	B610377-03	9ACA015-0	01/09/07 12:22
JAX47-SB091-01-120106	B610377-03	9ACB015-0	01/09/07 12:22
JAX47-SB091-04-120106	B610377-04	9ACA016-0	01/09/07 12:47
JAX47-SB091-04-120106	B610377-04	9ACB016-0	01/09/07 12:47
Calibration Check	BA00103-CCV6	9ACA018-0	01/09/07 13:39
Calibration Check	BA00103-CCV6	9ACB018-0	01/09/07 13:39
Instrument Blank	BA00103-IBL1	9LLB001A-0	12/18/06 10:40
Instrument Blank	BA00103-IBL1	9LLA001A-0	12/18/06 10:40
Performance Mix	BA00103-PEM1	9LLB002A-0	12/18/06 11:06
Performance Mix	BA00103-PEM1	9LLA002A-0	12/18/06 11:06
Performance Mix	BA00103-PEM1	9ACB011-0	12/18/06 11:06
Calibration Check	BA00103-CCV1	9LLA003A-0	12/18/06 11:31
Calibration Check	BA00103-CCV1	9LLB003A-0	12/18/06 11:31
Blank	6L15003-BLK1	9LLB004A-0	12/18/06 11:57
Blank	6L15003-BLK1	9LLA004A-0	12/18/06 11:57
LCS	6L15003-BS1	9LLA005A-0	12/18/06 12:23
LCS	6L15003-BS1	9LLB005A-0	12/18/06 12:23
JAX47-SB090-06-120106	B610377-02	9LLA006-0	12/18/06 13:14
JAX47-SB090-06-120106	B610377-02	9LLB006-0	12/18/06 13:14
Calibration Check	BA00103-CCV2	9LLA014A-0	12/18/06 18:39
Calibration Check	BA00103-CCV2	9LLB014A-0	12/18/06 18:39
Instrument Blank	BA00103-IBL2	9LNB001-0	12/19/06 11:13

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00103	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00103-IBL2	9LNA001-0	12/19/06 11:13
Performance Mix	BA00103-PEM2	9LNB002-0	12/19/06 11:39
Performance Mix	BA00103-PEM2	9LNA002-0	12/19/06 11:39
Calibration Check	BA00103-CCV3	9LNA003-0	12/19/06 12:04
Calibration Check	BA00103-CCV3	9LNB003-0	12/19/06 12:04
JAX47-SB091-04-120106	6L15003-MS1	9LNB010-0	12/19/06 15:05
JAX47-SB091-04-120106	6L15003-MS1	9LNA010-0	12/19/06 15:05
JAX47-SB091-04-120106	6L15003-MSD1	9LNB011-0	12/19/06 15:31
JAX47-SB091-04-120106	6L15003-MSD1	9LNA011-0	12/19/06 15:31
JAX47-SB091-04-120106	B610377-04RE1	9LNB012-0	12/19/06 15:56
JAX47-SB091-04-120106	B610377-04RE1	9LNA012-0	12/19/06 15:56
Calibration Check	BA00103-CCV4	9LNA013-0	12/19/06 16:22
Calibration Check	BA00103-CCV4	9LNB013-0	12/19/06 16:22

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-013

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB090-03-120106	12/01/06 11:29	12/01/06 16:50	12/15/06 09:42	14.00	14.00	01/09/07 11:56	25.00	40.00	
JAX47-SB090-06-120106	12/01/06 11:39	12/01/06 16:50	12/15/06 09:42	14.00	14.00	12/18/06 13:14	3.00	40.00	
JAX47-SB091-01-120106	12/01/06 11:09	12/01/06 16:50	12/15/06 09:42	14.00	14.00	01/09/07 12:22	25.00	40.00	
JAX47-SB091-04-120106	12/01/06 11:15	12/01/06 16:50	12/15/06 09:42	14.00	14.00	01/09/07 12:47	25.00	40.00	
JAX47-SB091-04-120106	12/01/06 11:15	12/01/06 16:50	12/15/06 09:42	14.00	14.00	12/19/06 15:56	4.00	40.00	
JAX47-SB091-06-120106	12/01/06 11:22	12/01/06 16:50	12/15/06 09:42	14.00	14.00	01/09/07 11:30	25.00	40.00	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00103	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0612008

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L15003-BLK1)			Lab File ID: 9LLA004A-0		Analyzed: 12/18/06 11:57			
2,4,5,6-TCMX	0.0333	81	70 - 125	6.795	6.848286	-0.0533	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	80	70 - 125	6.517	6.564286	-0.0473	+/-0.3	
DBC	0.0333	78	55 - 130	14.055	14.10214	-0.0471	+/-0.3	
DBC [2C]	0.0333	80	55 - 130	13.868	13.90914	-0.0411	+/-0.3	
JAX47-SB090-06-120106 (B610377-02)			Lab File ID: 9LLA006-0		Analyzed: 12/18/06 13:14			
2,4,5,6-TCMX	0.0355	76	70 - 125	6.804	6.848286	-0.0443	+/-0.3	
2,4,5,6-TCMX [2C]	0.0355	77	70 - 125	6.521	6.564286	-0.0433	+/-0.3	
DBC	0.0355	78	55 - 130	14.064	14.10214	-0.0381	+/-0.3	
DBC [2C]	0.0355	77	55 - 130	13.873	13.90914	-0.0361	+/-0.3	
JAX47-SB091-06-120106 (B610377-05)			Lab File ID: 9ACA013-0		Analyzed: 01/09/07 11:30			
2,4,5,6-TCMX	0.0397	67	70 - 125	6.519	6.848286	-0.3293	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0397	65	70 - 125	6.262	6.564286	-0.3023	+/-0.3	*
DBC	0.0397	67	55 - 150	13.797	14.10214	-0.3051	+/-0.3	
DBC [2C]	0.0397	67	55 - 150	13.63	13.90914	-0.2791	+/-0.3	
JAX47-SB090-03-120106 (B610377-01)			Lab File ID: 9ACA014-0		Analyzed: 01/09/07 11:56			
2,4,5,6-TCMX	0.0355	70	70 - 125	6.522	6.848286	-0.3263	+/-0.3	
2,4,5,6-TCMX [2C]	0.0355	68	70 - 125	6.264	6.564286	-0.3003	+/-0.3	
DBC	0.0355	71	55 - 150	13.799	14.10214	-0.3031	+/-0.3	
DBC [2C]	0.0355	69	55 - 150	13.632	13.90914	-0.2771	+/-0.3	
JAX47-SB091-01-120106 (B610377-03)			Lab File ID: 9ACA015-0		Analyzed: 01/09/07 12:22			
2,4,5,6-TCMX	0.0366	71	70 - 125	6.522	6.848286	-0.3263	+/-0.3	
2,4,5,6-TCMX [2C]	0.0366	69	70 - 125	6.265	6.564286	-0.2993	+/-0.3	*
DBC	0.0366	72	55 - 150	13.799	14.10214	-0.3031	+/-0.3	
DBC [2C]	0.0366	70	55 - 150	13.633	13.90914	-0.2761	+/-0.3	
JAX47-SB091-04-120106 (B610377-04)			Lab File ID: 9ACA016-0		Analyzed: 01/09/07 12:47			
2,4,5,6-TCMX	0.0446	68	70 - 125	6.522	6.848286	-0.3263	+/-0.3	*
2,4,5,6-TCMX [2C]	0.0446	69	70 - 125	6.265	6.564286	-0.2993	+/-0.3	*
DBC	0.0446	82	55 - 150	13.799	14.10214	-0.3031	+/-0.3	
DBC [2C]	0.0446	72	55 - 150	13.632	13.90914	-0.2771	+/-0.3	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB091-04-120106

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L15003
Laboratory ID: 6L15003-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB091-04-120106

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0446	0.000401	0.0312	69	60 - 125
gamma-BHC	0.0446	0.000491	0.0308	68	60 - 125
beta-BHC	0.0446	0.265	0.298	73	60 - 125
delta-BHC	0.0446	0.174	0.179	13 *	55 - 130
Heptachlor	0.0446	ND	0.0349	78	50 - 140
Aldrin	0.0446	ND	0.0294	66	45 - 140
Heptachlor epoxide	0.0446	0.00232	0.0327	68	65 - 130
Chlordane-gamma	0.0446	0.00348	0.0348	70	65 - 125
Chlordane-alpha	0.0446	0.00446	0.0396	79	65 - 120
4,4'-DDE	0.0446	0.108	0.134	58 *	70 - 125
Endosulfan I	0.0446	ND	0.0306	69	15 - 135
Dieldrin	0.0446	0.0395	0.0728	75	65 - 125
Endrin	0.0446	ND	0.0329	74	60 - 135
4,4'-DDD	0.0446	0.0145	0.112	218 *	30 - 135
Endosulfan II	0.0446	ND	0.0298	67	35 - 140
4,4'-DDT	0.0446	0.252	0.227	-54 *	45 - 140
Endrin aldehyde	0.0446	0.000491	0.0287	63	35 - 145
Methoxychlor	0.0446	ND	0.0368	82	55 - 145
Endosulfan sulfate	0.0446	0.000669	0.0308	68	60 - 135
Endrin ketone	0.0446	0.00107	0.0312	68	65 - 135
alpha-BHC [2C]	0.0446	0.000491	0.0285	63	60 - 125
gamma-BHC [2C]	0.0446	0.00103	0.0294	64	60 - 125
beta-BHC [2C]	0.0446	0.241	0.265	53 *	60 - 125
delta-BHC [2C]	0.0446	0.155	0.160	12 *	55 - 130
Heptachlor [2C]	0.0446	ND	0.0315	71	50 - 140
Aldrin [2C]	0.0446	ND	0.0310	69	45 - 140
Heptachlor epoxide [2C]	0.0446	0.00143	0.0303	65	65 - 130
Chlordane-gamma [2C]	0.0446	0.00415	0.0338	66	65 - 125
Chlordane-alpha [2C]	0.0446	0.00370	0.0324	64 *	65 - 120
4,4'-DDE [2C]	0.0446	0.101	0.124	52 *	70 - 125
Endosulfan I [2C]	0.0446	ND	0.0300	67	15 - 135
Dieldrin [2C]	0.0446	0.0386	0.0691	68	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB091-04-120106

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L15003
Laboratory ID: 6L15003-MS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL
Source Sample Name: JAX47-SB091-04-120106

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0446	0.000535	0.0333	73	60 - 135
4,4'-DDD [2C]	0.0446	0.0162	0.106	202 *	30 - 135
Endosulfan II [2C]	0.0446	ND	0.0301	68	35 - 140
4,4'-DDT [2C]	0.0446	0.244	0.215	-64 *	45 - 140
Endrin aldehyde [2C]	0.0446	0.000580	0.0299	66	35 - 145
Methoxychlor [2C]	0.0446	ND	0.0264	59	55 - 145
Endosulfan sulfate [2C]	0.0446	0.00259	0.0337	70	60 - 135
Endrin ketone [2C]	0.0446	0.00138	0.0301	64 *	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0446	0.0239	53 *	26	30	60 - 125
gamma-BHC	0.0446	0.0237	52 *	26	30	60 - 125
beta-BHC	0.0446	0.261	-10 *	13	30	60 - 125
delta-BHC	0.0446	0.172	-4 *	4	30	55 - 130
Heptachlor	0.0446	0.0283	63	21	30	50 - 140
Aldrin	0.0446	0.0229	51	25	30	45 - 140
Heptachlor epoxide	0.0446	0.0252	51 *	26	30	65 - 130
Chlordane-gamma	0.0446	0.0272	53 *	25	30	65 - 125
Chlordane-alpha	0.0446	0.0311	60 *	24	30	65 - 120
4,4'-DDE	0.0446	0.116	18 *	14	30	70 - 125
Endosulfan I	0.0446	0.0235	53	27	30	15 - 135
Dieldrin	0.0446	0.0585	43 *	22	30	65 - 125
Endrin	0.0446	0.0251	56 *	27	30	60 - 135
4,4'-DDD	0.0446	0.0869	162 *	25	30	30 - 135
Endosulfan II	0.0446	0.0229	51	26	30	35 - 140
4,4'-DDT	0.0446	0.216	-79 *	5	30	45 - 140
Endrin aldehyde	0.0446	0.0216	47	28	30	35 - 145
Methoxychlor	0.0446	0.0293	66	23	30	55 - 145
Endosulfan sulfate	0.0446	0.0236	51 *	27	30	60 - 135
Endrin ketone	0.0446	0.0239	51 *	26	30	65 - 135
alpha-BHC [2C]	0.0446	0.0220	48 *	26	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB091-04-120106

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L15003	Laboratory ID:	6L15003-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB091-04-120106

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0446	0.0228	49 *	25	30	60 - 125
beta-BHC [2C]	0.0446	0.232	-21 *	13	30	60 - 125
delta-BHC [2C]	0.0446	0.152	-5 *	5	30	55 - 130
Heptachlor [2C]	0.0446	0.0241	54	27	30	50 - 140
Aldrin [2C]	0.0446	0.0239	54	26	30	45 - 140
Heptachlor epoxide [2C]	0.0446	0.0236	50 *	25	30	65 - 130
Chlordane-gamma [2C]	0.0446	0.0266	50 *	24	30	65 - 125
Chlordane-alpha [2C]	0.0446	0.0253	48 *	25	30	65 - 120
4,4'-DDE [2C]	0.0446	0.109	16 *	13	30	70 - 125
Endosulfan I [2C]	0.0446	0.0232	52	26	30	15 - 135
Dieldrin [2C]	0.0446	0.0564	40 *	20	30	65 - 125
Endrin [2C]	0.0446	0.0255	56 *	26	30	60 - 135
4,4'-DDD [2C]	0.0446	0.0839	152 *	24	30	30 - 135
Endosulfan II [2C]	0.0446	0.0228	51	27	30	35 - 140
4,4'-DDT [2C]	0.0446	0.203	-92 *	6	30	45 - 140
Endrin aldehyde [2C]	0.0446	0.0228	50	27	30	35 - 145
Methoxychlor [2C]	0.0446	0.0204	46 *	25	30	55 - 145
Endosulfan sulfate [2C]	0.0446	0.0261	53 *	25	30	60 - 135
Endrin ketone [2C]	0.0446	0.0231	49 *	26	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 6L15003
Laboratory ID: 6L15003-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.0325	97	60 - 125
gamma-BHC	0.0333	0.0326	98	60 - 125
beta-BHC	0.0333	0.0342	102	60 - 125
delta-BHC	0.0333	0.0334	100	55 - 130
Heptachlor	0.0333	0.0310	93	50 - 140
Aldrin	0.0333	0.0316	95	45 - 140
Heptachlor epoxide	0.0333	0.0308	92	65 - 130
Chlordane-gamma	0.0333	0.0317	95	65 - 125
Chlordane-alpha	0.0333	0.0314	94	65 - 120
4,4'-DDE	0.0333	0.0320	96	70 - 125
Endosulfan I	0.0333	0.0312	94	15 - 135
Dieldrin	0.0333	0.0320	96	65 - 125
Endrin	0.0333	0.0323	97	60 - 135
4,4'-DDD	0.0333	0.0326	98	30 - 135
Endosulfan II	0.0333	0.0319	96	35 - 140
4,4'-DDT	0.0333	0.0324	97	45 - 140
Endrin aldehyde	0.0333	0.0314	94	35 - 145
Methoxychlor	0.0333	0.0311	93	55 - 145
Endosulfan sulfate	0.0333	0.0324	97	60 - 135
Endrin ketone	0.0333	0.0323	97	65 - 135
alpha-BHC [2C]	0.0333	0.0324	97	60 - 125
gamma-BHC [2C]	0.0333	0.0324	97	60 - 125
beta-BHC [2C]	0.0333	0.0343	103	60 - 125
delta-BHC [2C]	0.0333	0.0332	100	55 - 130
Heptachlor [2C]	0.0333	0.0311	93	50 - 140
Aldrin [2C]	0.0333	0.0318	95	45 - 140
Heptachlor epoxide [2C]	0.0333	0.0315	95	65 - 130
Chlordane-gamma [2C]	0.0333	0.0319	96	65 - 125
Chlordane-alpha [2C]	0.0333	0.0314	94	65 - 120
4,4'-DDE [2C]	0.0333	0.0323	97	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	6L15003	Laboratory ID:	6L15003-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.0313	94	15 - 135
Dieldrin [2C]	0.0333	0.0320	96	65 - 125
Endrin [2C]	0.0333	0.0320	96	60 - 135
4,4'-DDD [2C]	0.0333	0.0327	98	30 - 135
Endosulfan II [2C]	0.0333	0.0321	96	35 - 140
4,4'-DDT [2C]	0.0333	0.0328	98	45 - 140
Endrin aldehyde [2C]	0.0333	0.0314	94	35 - 145
Methoxychlor [2C]	0.0333	0.0316	95	55 - 145
Endosulfan sulfate [2C]	0.0333	0.0327	98	60 - 135
Endrin ketone [2C]	0.0333	0.0324	97	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-013	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L15003-BLK1	File ID:	9LLA004A-0
Prepared:	12/15/06 09:42	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/18/06 11:57	Instrument:	JSVGCECD2		
Batch:	6L15003	Sequence:	BA00103	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.0017	U
58-89-9	gamma-BHC	0.0017	U
319-85-7	beta-BHC	0.0017	U
319-86-8	delta-BHC	0.0017	U
76-44-8	Heptachlor	0.0017	U
309-00-2	Aldrin	0.0017	U
1024-57-3	Heptachlor epoxide	0.0017	U
NA	Chlordane-gamma	0.0017	U
NA	Chlordane-alpha	0.0017	U
72-55-9	4,4′-DDE	0.0017	U
959-98-8	Endosulfan I	0.0017	U
60-57-1	Dieldrin	0.0017	U
72-20-8	Endrin	0.0017	U
72-54-8	4,4′-DDD	0.0017	U
33213-65-9	Endosulfan II	0.0017	U
50-29-3	4,4′-DDT	0.000167	J
7421-93-4	Endrin aldehyde	0.0017	U
72-43-5	Methoxychlor	0.0017	U
1031-07-8	Endosulfan sulfate	0.0017	U
53494-70-5	Endrin ketone	0.0017	U
8001-35-2	Toxaphene	0.033	U
319-84-6	alpha-BHC [2C]	0.0017	U
58-89-9	gamma-BHC [2C]	0.0017	U
319-85-7	beta-BHC [2C]	0.0017	U
319-86-8	delta-BHC [2C]	0.0017	U
76-44-8	Heptachlor [2C]	0.0017	U
309-00-2	Aldrin [2C]	0.0017	U
1024-57-3	Heptachlor epoxide [2C]	0.0017	U
NA	Chlordane-gamma [2C]	0.0017	U
NA	Chlordane-alpha [2C]	0.0017	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	6L15003-BLK1	File ID:	9LLB004A-0
Prepared:	12/15/06 09:42	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	12/18/06 11:57	Instrument:	JSVGCECD2		
Batch:	6L15003	Sequence:	BA00103	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
72-55-9	4,4'-DDE [2C]	0.0017	U
959-98-8	Endosulfan I [2C]	0.0017	U
60-57-1	Dieldrin [2C]	0.0017	U
72-20-8	Endrin [2C]	0.0017	U
72-54-8	4,4'-DDD [2C]	0.0017	U
33213-65-9	Endosulfan II [2C]	0.0017	U
50-29-3	4,4'-DDT [2C]	0.000133	J
7421-93-4	Endrin aldehyde [2C]	0.0017	U
72-43-5	Methoxychlor [2C]	0.0017	U
1031-07-8	Endosulfan sulfate [2C]	0.0017	U
53494-70-5	Endrin ketone [2C]	0.0017	U
8001-35-2	Toxaphene [2C]	0.033	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.0269	81	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.0267	80	70 - 125	
DBC	0.0333	0.0261	78	55 - 130	
DBC [2C]	0.0333	0.0267	80	55 - 130	

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00089	Instrument:	JSVGCECD2
Calibration:	0612008		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4′-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4′-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4′-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612008	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LLA003A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	12/18/06
Lab Sample ID:	BA00103-CCV1	Injection Time:	11:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0902	7.280474E+07	6.56915E+07		-9.8	20
gamma-BHC	A	0.100	0.0891	6.465721E+07	5.75832E+07		-10.9	20
beta-BHC	A	0.100	0.0924	2.323065E+07	2.14743E+07		-7.6	20
delta-BHC	A	0.100	0.0936	5.66961E+07	5.30434E+07		-6.4	20
Heptachlor	A	0.100	0.0847	6.414063E+07	5.43301E+07		-15.3	20
Aldrin	A	0.100	0.0872	6.149162E+07	5.36109E+07		-12.8	20
Heptachlor epoxide	A	0.100	0.0857	5.405995E+07	4.63079E+07		-14.3	20
Chlordane-gamma	A	0.100	0.0854	5.527518E+07	4.71946E+07		-14.6	20
Chlordane-alpha	A	0.100	0.0845	5.296272E+07	4.47488E+07		-15.5	20
4,4′-DDE	A	0.100	0.0855	5.244698E+07	4.48425E+07		-14.5	20
Endosulfan I	A	0.100	0.0855	4.972951E+07	4.25241E+07		-14.5	20
Dieldrin	A	0.100	0.0862	5.436507E+07	4.68417E+07		-13.8	20
Endrin	A	0.100	0.0888	4.627937E+07	4.10951E+07		-11.2	20
4,4′-DDD	A	0.100	0.0865	4.00135E+07	3.46159E+07		-13.5	20
Endosulfan II	A	0.100	0.0854	4.442927E+07	3.7937E+07		-14.6	20
4,4′-DDT	A	0.100	0.0843	4.164772E+07	3.51083E+07		-15.7	20
Endrin aldehyde	A	0.100	0.0877	3.13612E+07	2.74964E+07		-12.3	20
Methoxychlor	A	0.100	0.0807	2.117353E+07	1.70782E+07		-19.3	20
Endosulfan sulfate	A	0.100	0.0858	3.673694E+07	3.15073E+07		-14.2	20
Endrin ketone	A	0.100	0.0838	4.568736E+07	3.82977E+07		-16.2	20
alpha-BHC [2C]	A	0.100	0.0892	7.552835E+07	6.73996E+07		-10.8	20
gamma-BHC [2C]	A	0.100	0.0883	6.719113E+07	5.92994E+07		-11.7	20
beta-BHC [2C]	A	0.100	0.0918	2.472905E+07	2.27074E+07		-8.2	20
delta-BHC [2C]	A	0.100	0.0928	5.850208E+07	5.431E+07		-7.2	20
Heptachlor [2C]	A	0.100	0.0846	6.67268E+07	5.64226E+07		-15.4	20
Aldrin [2C]	A	0.100	0.0861	6.357242E+07	5.47112E+07		-13.9	20
Heptachlor epoxide [2C]	A	0.100	0.0837	5.626251E+07	4.71107E+07		-16.3	20
Chlordane-gamma [2C]	A	0.100	0.0838	5.722595E+07	4.79636E+07		-16.2	20
Chlordane-alpha [2C]	A	0.100	0.0822	5.472749E+07	4.49621E+07		-17.8	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LLB003A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	12/18/06
Lab Sample ID:	BA00103-CCV1	Injection Time:	11:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0832	5.341989E+07	4.44565E+07		-16.8	20
Endosulfan I [2C]	A	0.100	0.0828	5.087841E+07	4.21118E+07		-17.2	20
Dieldrin [2C]	A	0.100	0.0836	5.608619E+07	4.68779E+07		-16.4	20
Endrin [2C]	A	0.100	0.0841	4.605028E+07	3.87145E+07		-15.9	20
4,4'-DDD [2C]	A	0.100	0.0819	4.157866E+07	3.40433E+07		-18.1	20
Endosulfan II [2C]	A	0.100	0.0827	4.58875E+07	3.79464E+07		-17.3	20
4,4'-DDT [2C]	A	0.100	0.0826	4.184652E+07	3.45731E+07		-17.4	20
Endrin aldehyde [2C]	A	0.100	0.0869	3.232817E+07	2.80862E+07		-13.1	20
Methoxychlor [2C]	A	0.100	0.0799	2.018515E+07	1.61343E+07		-20.1	20
Endosulfan sulfate [2C]	A	0.100	0.0858	3.836149E+07	3.28951E+07		-14.2	20
Endrin ketone [2C]	A	0.100	0.0821	4.596086E+07	3.77259E+07		-17.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LLA014A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	12/18/06
Lab Sample ID:	BA00103-CCV2	Injection Time:	18:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0872	7.280474E+07	6.34981E+07		-12.8	20
gamma-BHC	A	0.100	0.0922	6.465721E+07	5.96279E+07		-7.8	20
beta-BHC	A	0.100	0.0952	2.323065E+07	2.21093E+07		-4.8	20
delta-BHC	A	0.100	0.0986	5.66961E+07	5.59298E+07		-1.4	20
Heptachlor	A	0.100	0.0883	6.414063E+07	5.66131E+07		-11.7	20
Aldrin	A	0.100	0.156	6.149162E+07	9.58168E+07		55.8	20 *
Heptachlor epoxide	A	0.100	0.101	5.405995E+07	5.44172E+07		0.7	20
Chlordane-gamma	A	0.100	0.0911	5.527518E+07	5.03497E+07		-8.9	20
Chlordane-alpha	A	0.100	0.0886	5.296272E+07	4.6945E+07		-11.4	20
4,4'-DDE	A	0.100	0.0933	5.244698E+07	4.89164E+07		-6.7	20
Endosulfan I	A	0.100	0.102	4.972951E+07	5.075E+07		2.1	20
Dieldrin	A	0.100	0.0892	5.436507E+07	4.84904E+07		-10.8	20
Endrin	A	0.100	0.0969	4.627937E+07	4.48336E+07		-3.1	20
4,4'-DDD	A	0.100	0.0938	4.00135E+07	3.75411E+07		-6.2	20
Endosulfan II	A	0.100	0.0894	4.442927E+07	3.97184E+07		-10.6	20
4,4'-DDT	A	0.100	0.0909	4.164772E+07	3.78555E+07		-9.1	20
Endrin aldehyde	A	0.100	0.207	3.13612E+07	6.48187E+07		107	20 *
Methoxychlor	A	0.100	0.0888	2.117353E+07	1.87964E+07		-11.2	20
Endosulfan sulfate	A	0.100	0.0944	3.673694E+07	3.46972E+07		-5.6	20
Endrin ketone	A	0.100	0.0904	4.568736E+07	4.12807E+07		-9.6	20
alpha-BHC [2C]	A	0.100	0.100	7.552835E+07	7.57934E+07		0.4	20
gamma-BHC [2C]	A	0.100	0.102	6.719113E+07	6.83675E+07		1.8	20
beta-BHC [2C]	A	0.100	0.106	2.472905E+07	2.62137E+07		6.0	20
delta-BHC [2C]	A	0.100	0.106	5.850208E+07	6.22962E+07		6.5	20
Heptachlor [2C]	A	0.100	0.142	6.67268E+07	9.45915E+07		41.8	20 *
Aldrin [2C]	A	0.100	0.0987	6.357242E+07	6.27606E+07		-1.3	20
Heptachlor epoxide [2C]	A	0.100	0.0963	5.626251E+07	5.41623E+07		-3.7	20
Chlordane-gamma [2C]	A	0.100	0.0993	5.722595E+07	5.68174E+07		-0.7	20
Chlordane-alpha [2C]	A	0.100	0.0961	5.472749E+07	5.26067E+07		-3.9	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LLB014A-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	12/18/06
Lab Sample ID:	BA00103-CCV2	Injection Time:	18:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0875	5.341989E+07	4.6761E+07		-12.5	20	
Endosulfan I [2C]	A	0.100	0.116	5.087841E+07	5.92941E+07		~~16.5~~	20	
Dieldrin [2C]	A	0.100	0.0979	5.608619E+07	5.49243E+07		-2.1	20	
Endrin [2C]	A	0.100	0.202	4.605028E+07	9.3183E+07		~~102~~	20	*
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.23203E+07		1.8	20	
Endosulfan II [2C]	A	0.100	0.0987	4.58875E+07	4.53103E+07		-1.3	20	
4,4'-DDT [2C]	A	0.100	0.107	4.184652E+07	4.47484E+07		6.9	20	
Endrin aldehyde [2C]	A	0.100	0.102	3.232817E+07	3.30572E+07		2.3	20	
Methoxychlor [2C]	A	0.100	0.100	2.018515E+07	2.0235E+07		0.2	20	
Endosulfan sulfate [2C]	A	0.100	0.111	3.836149E+07	4.24465E+07		10.6	20	
Endrin ketone [2C]	A	0.100	0.101	4.596086E+07	4.62814E+07		0.7	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LNA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	12/19/06
Lab Sample ID:	BA00103-CCV3	Injection Time:	12:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0967	7.280474E+07	7.03743E+07		-3.3	20
gamma-BHC	A	0.100	0.0957	6.465721E+07	6.19089E+07		-4.3	20
beta-BHC	A	0.100	0.100	2.323065E+07	2.32201E+07		-0.05	20
delta-BHC	A	0.100	0.0993	5.66961E+07	5.62821E+07		-0.7	20
Heptachlor	A	0.100	0.0883	6.414063E+07	5.66049E+07		-11.7	20
Aldrin	A	0.100	0.0910	6.149162E+07	5.59409E+07		-9.0	20
Heptachlor epoxide	A	0.100	0.0873	5.405995E+07	4.71832E+07		-12.7	20
Chlordane-gamma	A	0.100	0.0879	5.527518E+07	4.85642E+07		-12.1	20
Chlordane-alpha	A	0.100	0.00	5.296272E+07	4.58529E+07		-13.4	20
4,4'-DDE	A	0.100	0.0816	5.244698E+07	4.28222E+07		-18.4	20
Endosulfan I	A	0.100	0.00	4.972951E+07	4.28222E+07		-13.9	20
Dieldrin	A	0.100	0.0870	5.436507E+07	4.72842E+07		-13.0	20
Endrin	A	0.100	0.0917	4.627937E+07	4.24464E+07		-8.3	20
4,4'-DDD	A	0.100	0.0940	4.00135E+07	3.76159E+07		-6.0	20
Endosulfan II	A	0.100	0.0864	4.442927E+07	3.84004E+07		-13.6	20
4,4'-DDT	A	0.100	0.0800	4.164772E+07	3.33289E+07		-20.0	20
Endrin aldehyde	A	0.100	0.0882	3.13612E+07	2.76611E+07		-11.8	20
Methoxychlor	A	0.100	0.0806	2.117353E+07	1.70659E+07		-19.4	20
Endosulfan sulfate	A	0.100	0.0863	3.673694E+07	3.16951E+07		-13.7	20
Endrin ketone	A	0.100	0.0857	4.568736E+07	3.91707E+07		-14.3	20
alpha-BHC [2C]	A	0.100	0.0922	7.552835E+07	6.96599E+07		-7.8	20
gamma-BHC [2C]	A	0.100	0.0920	6.719113E+07	6.1802E+07		-8.0	20
beta-BHC [2C]	A	0.100	0.0970	2.472905E+07	2.39909E+07		-3.0	20
delta-BHC [2C]	A	0.100	0.0952	5.850208E+07	5.57055E+07		-4.8	20
Heptachlor [2C]	A	0.100	0.0855	6.67268E+07	5.70384E+07		-14.5	20
Aldrin [2C]	A	0.100	0.0872	6.357242E+07	5.54087E+07		-12.8	20
Heptachlor epoxide [2C]	A	0.100	0.0835	5.626251E+07	4.70029E+07		-16.5	20
Chlordane-gamma [2C]	A	0.100	0.0842	5.722595E+07	4.81732E+07		-15.8	20
Chlordane-alpha [2C]	A	0.100	0.0822	5.472749E+07	4.50077E+07		-17.8	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LNB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	12/19/06
Lab Sample ID:	BA00103-CCV3	Injection Time:	12:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0840	5.341989E+07	4.48898E+07		-16.0	20	
Endosulfan I [2C]	A	0.100	0.0827	5.087841E+07	4.20611E+07		-17.3	20	
Dieldrin [2C]	A	0.100	0.0831	5.608619E+07	4.65824E+07		-16.9	20	
Endrin [2C]	A	0.100	0.0871	4.605028E+07	4.00938E+07		-12.9	20	
4,4'-DDD [2C]	A	0.100	0.0873	4.157866E+07	3.62852E+07		-12.7	20	
Endosulfan II [2C]	A	0.100	0.0827	4.58875E+07	3.79369E+07		-17.3	20	
4,4'-DDT [2C]	A	0.100	0.0776	4.184652E+07	3.2489E+07		-22.4	20	*
Endrin aldehyde [2C]	A	0.100	0.0877	3.232817E+07	2.83678E+07		-12.3	20	
Methoxychlor [2C]	A	0.100	0.0804	2.018515E+07	1.62338E+07		-19.6	20	
Endosulfan sulfate [2C]	A	0.100	0.0842	3.836149E+07	3.2306E+07		-15.8	20	
Endrin ketone [2C]	A	0.100	0.0831	4.596086E+07	3.81798E+07		-16.9	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LNA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	12/19/06
Lab Sample ID:	BA00103-CCV4	Injection Time:	16:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.104	7.280474E+07	7.6102E+07		4.5	20
gamma-BHC	A	0.100	0.101	6.465721E+07	6.5389E+07		1.1	20
beta-BHC	A	0.100	0.106	2.323065E+07	2.47232E+07		6.4	20
delta-BHC	A	0.100	0.108	5.66961E+07	6.10773E+07		7.7	20
Heptachlor	A	0.100	0.0917	6.414063E+07	5.88255E+07		-8.3	20
Aldrin	A	0.100	0.0975	6.149162E+07	5.99593E+07		-2.5	20
Heptachlor epoxide	A	0.100	0.0934	5.405995E+07	5.04912E+07		-6.6	20
Chlordane-gamma	A	0.100	0.0940	5.527518E+07	5.19457E+07		-6.0	20
Chlordane-alpha	A	0.100	0.0926	5.296272E+07	4.90636E+07		-7.4	20
4,4′-DDE	A	0.100	0.0951	5.244698E+07	4.98916E+07		-4.9	20
Endosulfan I	A	0.100	0.0923	4.972951E+07	4.58826E+07		-7.7	20
Dieldrin	A	0.100	0.0937	5.436507E+07	5.09394E+07		-6.3	20
Endrin	A	0.100	0.0975	4.627937E+07	4.51027E+07		-2.5	20
4,4′-DDD	A	0.100	0.113	4.00135E+07	4.51608E+07		12.9	20
Endosulfan II	A	0.100	0.0920	4.442927E+07	4.08875E+07		-8.0	20
4,4′-DDT	A	0.100	0.0606	4.164772E+07	2.52385E+07		-39.4	20 *
Endrin aldehyde	A	0.100	0.0877	3.13612E+07	2.74901E+07		-12.3	20
Methoxychlor	A	0.100	0.0696	2.117353E+07	1.4734E+07		-30.4	20 *
Endosulfan sulfate	A	0.100	0.0890	3.673694E+07	3.26971E+07		-11.0	20
Endrin ketone	A	0.100	0.0862	4.568736E+07	3.94033E+07		-13.8	20
alpha-BHC [2C]	A	0.100	0.103	7.552835E+07	7.75904E+07		2.7	20
gamma-BHC [2C]	A	0.100	0.100	6.719113E+07	6.74556E+07		0.4	20
beta-BHC [2C]	A	0.100	0.107	2.472905E+07	2.64108E+07		6.8	20
delta-BHC [2C]	A	0.100	0.107	5.850208E+07	6.2808E+07		7.4	20
Heptachlor [2C]	A	0.100	0.0916	6.67268E+07	6.10989E+07		-8.4	20
Aldrin [2C]	A	0.100	0.0969	6.357242E+07	6.16267E+07		-3.1	20
Heptachlor epoxide [2C]	A	0.100	0.0924	5.626251E+07	5.19614E+07		-7.6	20
Chlordane-gamma [2C]	A	0.100	0.0935	5.722595E+07	5.35013E+07		-6.5	20
Chlordane-alpha [2C]	A	0.100	0.0916	5.472749E+07	5.01302E+07		-8.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LNB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	12/19/06
Lab Sample ID:	BA00103-CCV4	Injection Time:	16:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDE [2C]	A	0.100	0.0940	5.341989E+07	5.02307E+07		-6.0	20	
Endosulfan I [2C]	A	0.100	0.0921	5.087841E+07	4.68756E+07		-7.9	20	
Dieldrin [2C]	A	0.100	0.0925	5.608619E+07	5.18537E+07		-7.5	20	
Endrin [2C]	A	0.100	0.0975	4.605028E+07	4.49094E+07		-2.5	20	
4,4'-DDD [2C]	A	0.100	0.110	4.157866E+07	4.59045E+07		10.4	20	
Endosulfan II [2C]	A	0.100	0.0938	4.58875E+07	4.30217E+07		-6.2	20	
4,4'-DDT [2C]	A	0.100	0.0610	4.184652E+07	2.5507E+07		-39.0	20	*
Endrin aldehyde [2C]	A	0.100	0.0946	3.232817E+07	3.0578E+07		-5.4	20	
Methoxychlor [2C]	A	0.100	0.0719	2.018515E+07	1.45104E+07		-28.1	20	*
Endosulfan sulfate [2C]	A	0.100	0.0886	3.836149E+07	3.39992E+07		-11.4	20	
Endrin ketone [2C]	A	0.100	0.0852	4.596086E+07	3.91801E+07		-14.8	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ACA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	01/09/07
Lab Sample ID:	BA00103-CCV5	Injection Time:	11:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0891	7.280474E+07	6.48664E+07		-10.9	20
gamma-BHC	A	0.100	0.0897	6.465721E+07	5.7973E+07		-10.3	20
beta-BHC	A	0.100	0.0920	2.323065E+07	2.1371E+07		-8.0	20
delta-BHC	A	0.100	0.0929	5.66961E+07	5.26532E+07		-7.1	20
Heptachlor	A	0.100	0.0869	6.414063E+07	5.57435E+07		-13.1	20
Aldrin	A	0.100	0.0871	6.149162E+07	5.3537E+07		-12.9	20
Heptachlor epoxide	A	0.100	0.0854	5.405995E+07	4.61619E+07		-14.6	20
Chlordane-gamma	A	0.100	0.0860	5.527518E+07	4.75313E+07		-14.0	20
Chlordane-alpha	A	0.100	0.0846	5.296272E+07	4.4804E+07		-15.4	20
4,4'-DDE	A	0.100	0.0857	5.244698E+07	4.49504E+07		-14.3	20
Endosulfan I	A	0.100	0.0852	4.972951E+07	4.23698E+07		-14.8	20
Dieldrin	A	0.100	0.0852	5.436507E+07	4.63372E+07		-14.8	20
Endrin	A	0.100	0.0869	4.627937E+07	4.02106E+07		-13.1	20
4,4'-DDD	A	0.100	0.0880	4.00135E+07	3.5215E+07		-12.0	20
Endosulfan II	A	0.100	0.0860	4.442927E+07	3.82117E+07		-14.0	20
4,4'-DDT	A	0.100	0.0891	4.164772E+07	3.71113E+07		-10.9	20
Endrin aldehyde	A	0.100	0.0933	3.13612E+07	2.92582E+07		-6.7	20
Methoxychlor	A	0.100	0.0844	2.117353E+07	1.78731E+07		-15.6	20
Endosulfan sulfate	A	0.100	0.0887	3.673694E+07	3.25894E+07		-11.3	20
Endrin ketone	A	0.100	0.0872	4.568736E+07	3.9855E+07		-12.8	20
alpha-BHC [2C]	A	0.100	0.0854	7.552835E+07	6.44959E+07		-14.6	20
gamma-BHC [2C]	A	0.100	0.0861	6.719113E+07	5.7829E+07		-13.9	20
beta-BHC [2C]	A	0.100	0.0893	2.472905E+07	2.20867E+07		-10.7	20
delta-BHC [2C]	A	0.100	0.0908	5.850208E+07	5.31201E+07		-9.2	20
Heptachlor [2C]	A	0.100	0.0840	6.67268E+07	5.60193E+07		-16.0	20
Aldrin [2C]	A	0.100	0.0845	6.357242E+07	5.37491E+07		-15.5	20
Heptachlor epoxide [2C]	A	0.100	0.0837	5.626251E+07	4.70716E+07		-16.3	20
Chlordane-gamma [2C]	A	0.100	0.0841	5.722595E+07	4.81478E+07		-15.9	20
Chlordane-alpha [2C]	A	0.100	0.0819	5.472749E+07	4.47951E+07		-18.1	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ACB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	01/09/07
Lab Sample ID:	BA00103-CCV5	Injection Time:	11:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0850	5.341989E+07	4.54162E+07		-15.0	20
Endosulfan I [2C]	A	0.100	0.0830	5.087841E+07	4.22038E+07		-17.0	20
Dieldrin [2C]	A	0.100	0.0842	5.608619E+07	4.72262E+07		-15.8	20
Endrin [2C]	A	0.100	0.0858	4.605028E+07	3.95104E+07		-14.2	20
4,4'-DDD [2C]	A	0.100	0.0852	4.157866E+07	3.54397E+07		-14.8	20
Endosulfan II [2C]	A	0.100	0.0840	4.58875E+07	3.85371E+07		-16.0	20
4,4'-DDT [2C]	A	0.100	0.0830	4.184652E+07	3.47482E+07		-17.0	20
Endrin aldehyde [2C]	A	0.100	0.0914	3.232817E+07	2.95631E+07		-8.6	20
Methoxychlor [2C]	A	0.100	0.0841	2.018515E+07	1.6974E+07		-15.9	20
Endosulfan sulfate [2C]	A	0.100	0.0877	3.836149E+07	3.36513E+07		-12.3	20
Endrin ketone [2C]	A	0.100	0.0850	4.596086E+07	3.90589E+07		-15.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ACA018-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	01/09/07
Lab Sample ID:	BA00103-CCV6	Injection Time:	13:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0989	7.280474E+07	7.19758E+07		-1.1	20
gamma-BHC	A	0.100	0.0975	6.465721E+07	6.30102E+07		-2.5	20
beta-BHC	A	0.100	0.0996	2.323065E+07	2.31263E+07		-0.4	20
delta-BHC	A	0.100	0.101	5.66961E+07	5.74931E+07		1.4	20
Heptachlor	A	0.100	0.0925	6.414063E+07	5.93514E+07		-7.5	20
Aldrin	A	0.100	0.0933	6.149162E+07	5.73502E+07		-6.7	20
Heptachlor epoxide	A	0.100	0.0904	5.405995E+07	4.88769E+07		-9.6	20
Chlordane-gamma	A	0.100	0.0914	5.527518E+07	5.05488E+07		-8.6	20
Chlordane-alpha	A	0.100	0.0902	5.296272E+07	4.77783E+07		-9.8	20
4,4'-DDE	A	0.100	0.0909	5.244698E+07	4.76891E+07		-9.1	20
Endosulfan I	A	0.100	0.0904	4.972951E+07	4.49598E+07		-9.6	20
Dieldrin	A	0.100	0.0905	5.436507E+07	4.91786E+07		-9.5	20
Endrin	A	0.100	0.0969	4.627937E+07	4.48237E+07		-3.1	20
4,4'-DDD	A	0.100	0.0936	4.00135E+07	3.7439E+07		-6.4	20
Endosulfan II	A	0.100	0.0902	4.442927E+07	4.00579E+07		-9.8	20
4,4'-DDT	A	0.100	0.0932	4.164772E+07	3.88362E+07		-6.8	20
Endrin aldehyde	A	0.100	0.0943	3.13612E+07	2.95674E+07		-5.7	20
Methoxychlor	A	0.100	0.0889	2.117353E+07	1.88207E+07		-11.1	20
Endosulfan sulfate	A	0.100	0.0858	3.673694E+07	3.15141E+07		-14.2	20
Endrin ketone	A	0.100	0.0908	4.568736E+07	4.14748E+07		-9.2	20
alpha-BHC [2C]	A	0.100	0.0952	7.552835E+07	7.19295E+07		-4.8	20
gamma-BHC [2C]	A	0.100	0.0949	6.719113E+07	6.37825E+07		-5.1	20
beta-BHC [2C]	A	0.100	0.0995	2.472905E+07	2.46103E+07		-0.5	20
delta-BHC [2C]	A	0.100	0.101	5.850208E+07	5.9312E+07		1.4	20
Heptachlor [2C]	A	0.100	0.0913	6.67268E+07	6.09545E+07		-8.7	20
Aldrin [2C]	A	0.100	0.0913	6.357242E+07	5.80239E+07		-8.7	20
Heptachlor epoxide [2C]	A	0.100	0.0889	5.626251E+07	5.00075E+07		-11.1	20
Chlordane-gamma [2C]	A	0.100	0.0895	5.722595E+07	5.12033E+07		-10.5	20
Chlordane-alpha [2C]	A	0.100	0.0870	5.472749E+07	4.75967E+07		-13.0	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9ACB018-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00103	Injection Date:	01/09/07
Lab Sample ID:	BA00103-CCV6	Injection Time:	13:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0894	5.341989E+07	4.77379E+07		-10.6	20
Endosulfan I [2C]	A	0.100	0.0873	5.087841E+07	4.44305E+07		-12.7	20
Dieldrin [2C]	A	0.100	0.0884	5.608619E+07	4.9586E+07		-11.6	20
Endrin [2C]	A	0.100	0.0946	4.605028E+07	4.35528E+07		-5.4	20
4,4'-DDD [2C]	A	0.100	0.0904	4.157866E+07	3.75828E+07		-9.6	20
Endosulfan II [2C]	A	0.100	0.0882	4.58875E+07	4.04593E+07		-11.8	20
4,4'-DDT [2C]	A	0.100	0.0911	4.184652E+07	3.81137E+07		-8.9	20
Endrin aldehyde [2C]	A	0.100	0.0919	3.232817E+07	2.97063E+07		-8.1	20
Methoxychlor [2C]	A	0.100	0.0904	2.018515E+07	1.82474E+07		-9.6	20
Endosulfan sulfate [2C]	A	0.100	0.0917	3.836149E+07	3.51655E+07		-8.3	20
Endrin ketone [2C]	A	0.100	0.0867	4.596086E+07	3.9847E+07		-13.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-01	File ID:	9ACA014-0
Sampled:	12/01/06 11:29	Prepared:	12/15/06 09:42	Analyzed:	01/09/07 11:56
Solids:	93.91	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L15003	Sequence:	BA00103		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	1	10.838	11.14771	0.31		0.00043	
4,4'-DDE	* 1	11.173	11.48286	0.31		0.0023	
4,4'-DDT	* 1	12.468	12.78071	0.313		0.0020	
4,4'-DDE	2	11.192	11.47543	0.283		0.0022	
4,4'-DDT	2	12.486	12.77157	0.286		0.0020	
2,4,5,6-TCMX	* 1	6.522	6.848286	0.326		0.0248	2.8
2,4,5,6-TCMX	2	6.264	6.564286	0.3		0.0241	3.05
DBC	* 1	13.799	14.10214	0.303		0.0251	2.15
DBC	2	13.632	13.90914	0.277		0.0246	1.9

* Column used for quantitation

JAX 47-58090-03-120106

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-02	File ID:	9LLA006-0
Sampled:	12/01/06 11:39	Prepared:	12/15/06 09:42	Analyzed:	12/18/06 13:14
Solids:	93.86	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L15003	Sequence:	BA00103		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.775	8.816429	0.0414		0.00085	4.32
Chlordane-alpha	* 1	11.342	11.34971	0.00771		0.00053	15.3
Dieldrin	* 1	11.878	11.91886	0.0409		0.00043	33.3
4,4'-DDD	* 1	12.338	12.37786	0.0399		0.0036	
4,4'-DDT	* 1	12.742	12.78071	0.0387		0.00060	
Endrin ketone	* 1	14.209	14.25229	0.0433		0.00060	
beta-BHC	2	8.649	8.687429	0.0384		0.00082	4.31
Chlordane-alpha	2	11.155	11.19143	0.0364		0.00046	15.5
Dieldrin	2	11.635	11.67429	0.0393		0.00057	33.4
4,4'-DDD	2	12.288	12.32514	0.0371		0.0042	
4,4'-DDT	2	12.735	12.77157	0.0366		0.00071	
Endosulfan sulfate	2	13.222	13.32643	0.104		0.00039	
2,4,5,6-TCMX	* 1	6.804	6.848286	0.0443		0.0269	1.42
2,4,5,6-TCMX	2	6.521	6.564286	0.0433		0.0273	1.39
DBC	* 1	14.064	14.10214	0.0381		0.0275	0.0823
DBC	2	13.873	13.90914	0.0361		0.0275	0.176

* Column used for quantitation

JAX47-58090-06-12006

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-03	File ID:	9ACA015-0
Sampled:	12/01/06 11:09	Prepared:	12/15/06 09:42	Analyzed:	01/09/07 12:22
Solids:	90.98	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L15003	Sequence:	BA00103		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.503	8.816429	0.313		0.00037	
Chlordane-gamma	* 1	10.827	11.14771	0.321		0.00077	16.6
Chlordane-alpha	* 1	11.022	11.34971	0.328		0.00059	0.0408
4,4'-DDE	* 1	11.174	11.48286	0.309		0.0052	
Dieldrin	* 1	11.595	11.91886	0.324		0.00029	24.9
4,4'-DDD	* 1	12.066	12.37786	0.312		0.0019	
4,4'-DDT	* 1	12.469	12.78071	0.312		0.0080	
Endrin aldehyde	* 1	12.882	13.21929	0.337		0.00029	60.2
Chlordane-gamma	2	10.676	10.97329	0.297		0.00066	16.6
Chlordane-alpha	2	10.901	11.19143	0.29		0.00059	0.0408
4,4'-DDE	2	11.193	11.47543	0.282		0.0052	
Dieldrin	2	11.376	11.67429	0.298		0.00037	25.1
4,4'-DDD	2	12.041	12.32514	0.284		0.0021	
4,4'-DDT	2	12.487	12.77157	0.285		0.0078	
Endrin aldehyde	2	12.635	12.927	0.292		0.00018	59.9
2,4,5,6-TCMX	* 1	6.522	6.848286	0.326		0.0262	3.55
2,4,5,6-TCMX	2	6.265	6.564286	0.299		0.0253	3.48
DBC	* 1	13.799	14.10214	0.303		0.0263	2.22
DBC	2	13.633	13.90914	0.276		0.0257	2.25

* Column used for quantitation

JAX97-SB091+01-120106

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-04	File ID:	9ACA016-0
Sampled:	12/01/06 11:15	Prepared:	12/15/06 09:42	Analyzed:	01/09/07 12:47
Solids:	74.73	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L15003	Sequence:	BA00103		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.702	8.023286	0.321		0.00040	22.3
gamma-BHC	* 1	8.304	8.628	0.324		0.00049	110
Heptachlor epoxide	1	10.635	10.95643	0.321		0.0023	62.2
Chlordane-gamma	* 1	10.826	11.14771	0.322		0.0035	19.3
Chlordane-alpha	* 1	11.027	11.34971	0.323		0.0045	20.6
Dieldrin	* 1	11.595	11.91886	0.324		0.039	2.27
4,4'-DDD	* 1	12.066	12.37786	0.312		0.014	
Endrin aldehyde	* 1	12.91	13.21929	0.309		0.00049	18.2
Endosulfan sulfate	* 1	13.525	13.853	0.328		0.00067	287
Endrin ketone	* 1	13.921	14.25229	0.331		0.0011	28.9
alpha-BHC	2	7.54	7.838	0.298		0.00049	22.4
gamma-BHC	2	8.201	8.497428	0.296		0.0010	109
Heptachlor epoxide	* 2	10.382	10.67843	0.296		0.0014	62.5
Chlordane-gamma	2	10.676	10.97329	0.297		0.0041	19.2
Chlordane-alpha	2	10.901	11.19143	0.29		0.0037	20.5
Dieldrin	2	11.378	11.67429	0.296		0.039	2.26
Endrin	2	11.822	12.121	0.299		0.00054	
4,4'-DDD	2	12.04	12.32514	0.285		0.016	
Endrin aldehyde	2	12.618	12.927	0.309		0.00058	18.1
Endosulfan sulfate	2	13.049	13.32643	0.277		0.0026	287
Endrin ketone	2	13.783	14.08214	0.299		0.0014	29.2
2,4,5,6-TCMX	* 1	6.522	6.848286	0.326		0.0305	0.771
2,4,5,6-TCMX	2	6.265	6.564286	0.299		0.0307	0.763
DBC	* 1	13.799	14.10214	0.303		0.0364	13
DBC	2	13.632	13.90914	0.277		0.0322	

* Column used for quantitation

JAX47-58098 - 04120106

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-04RE1	File ID:	9LNA012-0
Sampled:	12/01/06 11:15	Prepared:	12/15/06 09:42	Analyzed:	12/19/06 15:56
Solids:	74.73	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L15003	Sequence:	BA00103		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.765	8.816429	0.0514		0.24	1.41
delta-BHC	* 1	9.072	9.124286	0.0523		0.23	2.71
4,4'-DDE	* 1	11.433	11.48286	0.0499		0.083	
4,4'-DDT	* 1	12.733	12.78071	0.0477		0.25	
beta-BHC	2	8.644	8.687429	0.0434		0.24	1.15
delta-BHC	2	9.137	9.180286	0.0433		0.23	2.66
4,4'-DDE	2	11.433	11.47543	0.0424		0.083	
4,4'-DDT	2	12.73	12.77157	0.0416		0.23	

* Column used for quantitation

JAX47-SB091-04-122106

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-05	File ID:	9ACA013-0
Sampled:	12/01/06 11:22	Prepared:	12/15/06 09:42	Analyzed:	01/09/07 11:30
Solids:	84.00	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	6L15003	Sequence:	BA00103		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.498	8.816429	0.318		0.0019	11.4
delta-BHC	* 1	8.8	9.124286	0.324		0.0013	0.0365
4,4'-DDE	* 1	11.172	11.48286	0.311		0.00067	
Dieldrin	* 1	11.593	11.91886	0.326		0.00048	8.36
4,4'-DDT	* 1	12.467	12.78071	0.314		0.0013	
beta-BHC	2	8.396	8.687429	0.291		0.0017	11.3
delta-BHC	2	8.888	9.180286	0.292		0.0013	0.0365
4,4'-DDE	2	11.19	11.47543	0.285		0.00071	
Dieldrin	2	11.375	11.67429	0.299		0.00052	8.38
4,4'-DDT	2	12.484	12.77157	0.288		0.0014	
2,4,5,6-TCMX	* 1	6.519	6.848286	0.329		0.0266	3.45
2,4,5,6-TCMX	2	6.262	6.564286	0.302		0.0257	3.44
DBC	* 1	13.797	14.10214	0.305		0.0267	0.629
DBC	2	13.63	13.90914	0.279		0.0265	0.876

* Column used for quantitation

JA447 - SB091-06-120106

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-013

Lab Sample ID	Client Sample ID
B610377-01	JAX47-SB090-03-120106
B610377-02	JAX47-SB090-06-120106
B610377-03	JAX47-SB091-01-120106
B610377-04	JAX47-SB091-04-120106
B610377-05	JAX47-SB091-06-120106

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-Volatiles

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins
Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 11:17:11 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No: **CTO 0047**	Turn Around Time: **Standard**	Field Ops Leader: **Charles Metz**	Carrier/Waybill No.	Point of Contact: **Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8081A and 8270C Extended**	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 8260B Extended**	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	**SW-846 6010B or 6020**	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8260B Extended**	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 8081A and 8270C Extended**	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	**SW-846 6010B or 6020**	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 6010B or 6020**	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8081A and 8270C Extended**	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 8260B Extended**	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	**SW-846 6010B or 6020**	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 8260B Extended**	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	**SW-846 6010B or 6020**	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	**SW-846 8081A**	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

	MW18S-113006		**and 8270C Extended**			Pesticides and SVOCs					
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 6010B or 6020**	JAX-47-MW20S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8260B Extended**	JAX-47-MW20S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW20S-113006	13:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW20S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW27S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 6010B or 6020**	JAX-47-MW27S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW27S-113006	11:15	**SW-846 8260B Extended**	JAX-47-MW27S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-R01-113006	15:01	**SW-846 8081A and 8270C Extended**	QC	AQ	TCL Pesticides and SVOCs	None	1	Glass	1L Amber	Only 8081A Pesticides
11/30/2006	JAX47-R01-113006	15:01	**SW-846 6010B or 6020**	QC	AQ	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 6010B or 6020**	JAX47-SB089	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-02-113006	14:00	**SW-846 8081A**	JAX47-SB089	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 8081A**	JAX47-SB089-05-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB089-05-113006	14:10	**SW-846 6010B or 6020**	JAX47-SB089-05-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-01-113006	14:23	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 6010B or 6020**	JAX47-SB096	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB096-05-113006	14:30	**SW-846 8081A**	JAX47-SB096	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 6010B or 6020**	JAX47-SB098-01-113006	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-01-113006	15:11	**SW-846 8081A**	JAX47-SB098-01-113006	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 8081A**	JAX47-SB098	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB098-05-113006	15:13	**SW-846 6010B or 6020**	JAX47-SB098	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-01-113006	15:25	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 8081A**	JAX47-SB099	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

11/30/2006	JAX47-SB099-05-113006	15:30	**SW-846 6010B or 6020**	JAX47-SB099	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-01-113006	15:35	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD Collected
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 8081A**	JAX47-SB100	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB100-05-113006	15:46	**SW-846 6010B or 6020**	JAX47-SB100	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-01-113006	16:10	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 8081A**	JAX47-SB105	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB105-05-113006	16:15	**SW-846 6010B or 6020**	JAX47-SB105	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Plastic	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-01-113006	16:24	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 6010B or 6020**	JAX47-SB106	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB106-05-113006	16:29	**SW-846 8081A**	JAX47-SB106	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-01-113006	16:38	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 8081A**	JAX47-SB107	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB107-05-113006	16:44	**SW-846 6010B or 6020**	JAX47-SB107	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	3	Glass	4 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-01-113006	15:52	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	4	Glass	8 oz. wide-mouth clear w/Teflon cap	MS/MSD collected
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 8081A**	JAX47-SB110	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
11/30/2006	JAX47-SB110-05-113006	16:00	**SW-846 6010B or 6020**	JAX47-SB110	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 8081A and 8270C Extended**	JAX-47-USGSSSMW45	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	USGS-SSMW45-113906	15:10	**SW-846 6010B or 6020**	JAX-47-USGSSSMW45	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	USGS-	15:10	**SW-846 8260B**	JAX-47-	GW	TCL VOCs	4°	3	Glass	40ml vials	

	SSMW45-113906		**Extended**	USGSSSMW45			C/HCL				
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8081A and 8270C Extended**	QC	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 6010B or 6020**	QC	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX-47-DU01-120106	00:00	**SW-846 8260B Extended**	QC	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-DU02-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 6010B or 6020**	QC	SO	Arsenic	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-DU03-120106	00:00	**SW-846 8081A**	QC	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8260B Extended**	JAX-47-MW13D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 8081A and 8270C Extended**	JAX-47-MW13D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13D-120106	10:45	**SW-846 6010B or 6020**	JAX-47-MW13D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW13S-120106	09:30	**SW-846 8081A and 8270C Extended**	JAX-47-MW13S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 8260B Extended**	JAX-47-MW13S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW13S-120106	09:35	**SW-846 6010B or 6020**	JAX-47-MW13S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-01-120106	12:26	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 6010B or 6020**	JAX47-SB078	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB078-06-120106	12:33	**SW-846 8081A**	JAX47-SB078	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-01-120106	12:11	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 8081A**	JAX47-SB079	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB079-06-120106	12:18	**SW-846 6010B or 6020**	JAX47-SB079	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-01-120106	09:12	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	None	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 8081A**	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	**SW-846 6010B or 6020**	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 8081A**	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	**SW-846 6010B or 6020**	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 6010B or 6020**	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	**SW-846 8081A**	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 6010B or 6020**	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	**SW-846 8081A**	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 8081A**	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	**SW-846 6010B or 6020**	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 8081A**	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	**SW-846 6010B or 6020**	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	**SW-846 6010B**	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		**or 6020**							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 8081A**	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	**SW-846 6010B or 6020**	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-08-120106	11:22	**SW-846 6010B or 6020**	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-08-120106	11:22	**SW-846 8081A**	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chuck Metz	12/01/2006	15:50	**Hand Deliver**	12/01/2006	16:50
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
				12/1/06	16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

ENCO Jacksonville

SDG: BR006-013

CLASS: METALS - TOT

METHOD: EPA 6010B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-013

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB090-03-120106	B610377-01
JAX47-SB090-06-120106	B610377-02
JAX47-SB091-01-120106	B610377-03
JAX47-SB091-04-120106	B610377-04
JAX47-SB091-04-120106	B610377-04RE1
JAX47-SB091-06-120106	B610377-05

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.25 11:17:58 -05'00'

Name: Christina Tompkins

Date: 01/23/07

Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-013

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.001	0.05	ug/L
gamma-BHC	0.002	0.05	ug/L
beta-BHC	0.002	0.05	ug/L
delta-BHC	0.001	0.05	ug/L
Heptachlor	0.001	0.05	ug/L
Aldrin	0.002	0.05	ug/L
Heptachlor epoxide	0.001	0.05	ug/L
Chlordane-gamma	0.001	0.05	ug/L
Chlordane-alpha	0.001	0.05	ug/L
4,4′-DDE	0.002	0.05	ug/L
Endosulfan I	0.002	0.05	ug/L
Dieldrin	0.0008	0.05	ug/L
Endrin	0.002	0.05	ug/L
4,4′-DDD	0.0004	0.05	ug/L
Endosulfan II	0.002	0.05	ug/L
4,4′-DDT	0.002	0.05	ug/L
Endrin aldehyde	0.009	0.05	ug/L
Methoxychlor	0.003	0.05	ug/L
Endosulfan sulfate	0.002	0.05	ug/L
Endrin ketone	0.003	0.05	ug/L
Toxaphene	0.05	1	ug/L
alpha-BHC [2C]	0.001	0.05	ug/L
gamma-BHC [2C]	0.002	0.05	ug/L
beta-BHC [2C]	0.002	0.05	ug/L
delta-BHC [2C]	0.001	0.05	ug/L
Heptachlor [2C]	0.001	0.05	ug/L
Aldrin [2C]	0.002	0.05	ug/L
Heptachlor epoxide [2C]	0.001	0.05	ug/L
Chlordane-gamma [2C]	0.001	0.05	ug/L
Chlordane-alpha [2C]	0.001	0.05	ug/L
4,4'-DDE [2C]	0.002	0.05	ug/L
Endosulfan I [2C]	0.002	0.05	ug/L
Dieldrin [2C]	0.0008	0.05	ug/L
Endrin [2C]	0.002	0.05	ug/L
4,4'-DDD [2C]	0.0004	0.05	ug/L
Endosulfan II [2C]	0.002	0.05	ug/L
4,4'-DDT [2C]	0.002	0.05	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-013

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.009	0.05	ug/L
Methoxychlor [2C]	0.003	0.05	ug/L
Endosulfan sulfate [2C]	0.002	0.05	ug/L
Endrin ketone [2C]	0.003	0.05	ug/L
Toxaphene [2C]	0.05	1	ug/L

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-013

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L21007 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L21007-BLK1	9AGB025-0	12/19/06 18:06	
Blank	6L21007-BLK1	9AGA025-0	12/19/06 18:06	
LCS	6L21007-BS1	9AGB026-0	12/19/06 18:06	
LCS	6L21007-BS1	9AGA026-0	12/19/06 18:06	
JAX47-SB091-04-120106	6L21007-MS1	9AGB027-0	12/19/06 18:06	
JAX47-SB091-04-120106	6L21007-MS1	9AGA027-0	12/19/06 18:06	
JAX47-SB091-04-120106	6L21007-MSD1	9AGA028-0	12/19/06 18:06	
JAX47-SB091-04-120106	6L21007-MSD1	9AGB028-0	12/19/06 18:06	
JAX47-SB090-03-120106	B610377-01	9AKA018-0	12/19/06 18:06	
JAX47-SB090-03-120106	B610377-01	9AKB018-0	12/19/06 18:06	
JAX47-SB090-06-120106	B610377-02	9AKB019-0	12/19/06 18:06	
JAX47-SB090-06-120106	B610377-02	9AKA019-0	12/19/06 18:06	
JAX47-SB091-01-120106	B610377-03	9AGB031-0	12/19/06 18:06	
JAX47-SB091-01-120106	B610377-03	9AGA031-0	12/19/06 18:06	
JAX47-SB091-04-120106	B610377-04	9AGB032-0	12/19/06 18:06	
JAX47-SB091-04-120106	B610377-04	9AGA032-0	12/19/06 18:06	
JAX47-SB091-04-120106	B610377-04RE1	9AKB017-0	12/19/06 18:06	
JAX47-SB091-06-120106	B610377-05	9AKA020-0	12/19/06 18:06	
JAX47-SB091-06-120106	B610377-05	9AKB020-0	12/19/06 18:06	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00173	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00173-IBL1	9AGB012A-0	01/13/07 12:36
Instrument Blank	BA00173-IBL1	9AGA012A-0	01/13/07 12:36
Calibration Check	BA00173-CCV1	9AGA023-0	01/13/07 17:20
Calibration Check	BA00173-CCV1	9AGB023-0	01/13/07 17:20
Performance Mix	BA00173-PEM1	9AGA024-0	01/13/07 17:46
Performance Mix	BA00173-PEM1	9AGB024-0	01/13/07 17:46
Blank	6L21007-BLK1	9AGA025-0	01/13/07 18:11
Blank	6L21007-BLK1	9AGB025-0	01/13/07 18:11
LCS	6L21007-BS1	9AGA026-0	01/13/07 18:37
LCS	6L21007-BS1	9AGB026-0	01/13/07 18:37
JAX47-SB091-04-120106	6L21007-MS1	9AGA027-0	01/13/07 19:03
JAX47-SB091-04-120106	6L21007-MS1	9AGB027-0	01/13/07 19:03
JAX47-SB091-04-120106	6L21007-MSD1	9AGB028-0	01/13/07 19:29
JAX47-SB091-04-120106	6L21007-MSD1	9AGA028-0	01/13/07 19:29
JAX47-SB091-01-120106	B610377-03	9AGB031-0	01/13/07 20:46
JAX47-SB091-01-120106	B610377-03	9AGA031-0	01/13/07 20:46
JAX47-SB091-04-120106	B610377-04	9AGA032-0	01/13/07 21:12
JAX47-SB091-04-120106	B610377-04	9AGB032-0	01/13/07 21:12
Calibration Check	BA00173-CCV2	9AGB034-0	01/13/07 22:04
Calibration Check	BA00173-CCV2	9AGA034-0	01/13/07 22:04
Calibration Check	BA00173-CCV3	9AGB038-0	01/13/07 23:47
Calibration Check	BA00173-CCV3	9AGA038-0	01/13/07 23:47
Instrument Blank	BA00173-IBL2	9AKA001-0	01/16/07 10:28
Instrument Blank	BA00173-IBL2	9AKB001-0	01/16/07 10:28
Performance Mix	BA00173-PEM2	9AKB002-0	01/16/07 10:54
Performance Mix	BA00173-PEM2	9AKA002-0	01/16/07 10:54
Calibration Check	BA00173-CCV4	9AKB014-0	01/16/07 16:03
Calibration Check	BA00173-CCV4	9AKA014-0	01/16/07 16:03
JAX47-SB091-04-120106	B610377-04RE1	9AKB017-0	01/16/07 17:34
JAX47-SB090-03-120106	B610377-01	9AKA018-0	01/16/07 18:00
JAX47-SB090-03-120106	B610377-01	9AKB018-0	01/16/07 18:00
JAX47-SB090-06-120106	B610377-02	9AKB019-0	01/16/07 18:26

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00173	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-SB090-06-120106	B610377-02	9AKA019-0	01/16/07 18:26
JAX47-SB091-06-120106	B610377-05	9AKB020-0	01/16/07 18:52
JAX47-SB091-06-120106	B610377-05	9AKA020-0	01/16/07 18:52
Calibration Check	BA00173-CCV5	9AKB021-0	01/16/07 19:18
Calibration Check	BA00173-CCV5	9AKA021-0	01/16/07 19:18

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	BA00212-PEM1	9LGB002-0	12/12/06 16:59
Performance Mix	BA00212-PEM1	9LGA002-0	12/12/06 16:59
Cal Standard	BA00212-CAL1	9LGA004-0	12/12/06 18:03
Cal Standard	BA00212-CAL1	9LGB004-0	12/12/06 18:03
Cal Standard	BA00212-CAL2	9LGA005-0	12/12/06 18:29
Cal Standard	BA00212-CAL2	9LGB005-0	12/12/06 18:29
Cal Standard	BA00212-CAL3	9LGB006-0	12/12/06 18:55
Cal Standard	BA00212-CAL3	9LGA006-0	12/12/06 18:55
Cal Standard	BA00212-CAL4	9LGB007-0	12/12/06 19:21
Cal Standard	BA00212-CAL4	9LGA007-0	12/12/06 19:21
Cal Standard	BA00212-CAL5	9LGA008-0	12/12/06 19:47
Cal Standard	BA00212-CAL5	9LGB008-0	12/12/06 19:47
Cal Standard	BA00212-CAL6	9LGA009-0	12/12/06 20:13
Cal Standard	BA00212-CAL6	9LGB009-0	12/12/06 20:13
Cal Standard	BA00212-CAL7	9LGB010-0	12/12/06 20:39
Cal Standard	BA00212-CAL7	9LGA010-0	12/12/06 20:39

HOLDING TIME SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-013

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB090-03-120106	12/01/06 11:29	12/01/06 16:50	12/19/06 18:06	*4	7.00	01/16/07 18:00	28.00	40.00	
JAX47-SB090-06-120106	12/01/06 11:39	12/01/06 16:50	12/19/06 18:06	*4	7.00	01/16/07 18:26	28.00	40.00	
JAX47-SB091-01-120106	12/01/06 11:09	12/01/06 16:50	12/19/06 18:06	*4	7.00	01/13/07 20:46	25.00	40.00	
JAX47-SB091-04-120106	12/01/06 11:15	12/01/06 16:50	12/19/06 18:06	*4	7.00	01/13/07 21:12	25.00	40.00	
JAX47-SB091-04-120106	12/01/06 11:15	12/01/06 16:50	12/19/06 18:06	*4	7.00	01/16/07 17:34	28.00	40.00	
JAX47-SB091-06-120106	12/01/06 11:22	12/01/06 16:50	12/19/06 18:06	*4	7.00	01/16/07 18:52	28.00	40.00	

* Method 1312 was leached on 12/15/06

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-013	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L21007-BLK1	File ID:	9AGA025-0
Prepared:	12/19/06 18:06	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/13/07 18:11	Instrument:	JSVGCECD2		
Batch:	6L21007	Sequence:	BA00173	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4'-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4'-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4'-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.00	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-013	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L21007-BLK1	File ID:	9AGB025-0
Prepared:	12/19/06 18:06	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	01/13/07 18:11	Instrument:	JSVGCECD2		
Batch:	6L21007	Sequence:	BA00173	Calibration:	0701020

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.818	82	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.803	80	25 - 140	
DBC	1.00	0.862	86	30 - 135	
DBC [2C]	1.00	0.880	88	30 - 135	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00173	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0701020

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L21007-BLK1)			Lab File ID: 9AGA025-0		Analyzed: 01/13/07 18:11			
2,4,5,6-TCMX	1.00	82	25 - 140	6.474	6.474	0	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	80	25 - 140	6.218	6.217	0.001	+/-0.3	
DBC	1.00	86	30 - 135	13.754	13.754	0	+/-0.3	
DBC [2C]	1.00	88	30 - 135	13.59	13.59	0	+/-0.3	
JAX47-SB091-01-120106 (B610377-03)			Lab File ID: 9AGA031-0		Analyzed: 01/13/07 20:46			
2,4,5,6-TCMX	1.00	91	25 - 140	6.474	6.474	0	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	89	25 - 140	6.218	6..217	0.001	+/-0.3	
DBC	1.00	77	30 - 135	13.753	13.754	-0.001	+/-0.3	
DBC [2C]	1.00	79	30 - 135	13.59	13.59	0	+/-0.3	
JAX47-SB091-04-120106 (B610377-04)			Lab File ID: 9AGA032-0		Analyzed: 01/13/07 21:12			
2,4,5,6-TCMX	1.00	84	25 - 140	6.473	6.474	-0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	83	25 - 140	6.217	6.217	0	+/-0.3	
DBC	1.00	68	30 - 135	13.75	13.754	-0.001	+/-0.3	
DBC [2C]	1.00	69	30 - 135	13.588	13.59	-0.002	+/-0.3	
JAX47-SB090-03-120106 (B610377-01)			Lab File ID: 9AKA018-0		Analyzed: 01/16/07 18:00			
2,4,5,6-TCMX	1.00	98	25 - 140	6.439	6.439	0	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	92	25 - 140	6.183	6.184	-0.001	+/-0.3	
DBC	1.00	95	30 - 135	13.721	13.721	0	+/-0.3	
DBC [2C]	1.00	92	30 - 135	13.56	13.559	0.001	+/-0.3	
JAX47-SB090-06-120106 (B610377-02)			Lab File ID: 9AKA019-0		Analyzed: 01/16/07 18:26			
2,4,5,6-TCMX	1.00	94	25 - 140	6.44	6.439	0.001	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	88	25 - 140	6.184	6.184	0	+/-0.3	
DBC	1.00	94	30 - 135	13.722	13.721	0.001	+/-0.3	
DBC [2C]	1.00	90	30 - 135	13.56	13.559	0.001	+/-0.3	
JAX47-SB091-06-120106 (B610377-05)			Lab File ID: 9AKA020-0		Analyzed: 01/16/07 18:52			
2,4,5,6-TCMX	1.00	101	25 - 140	6.442	6.439	0.003	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	94	25 - 140	6.185	6.184	0.001	+/-0.3	
DBC	1.00	90	30 - 135	13.722	13.721	0.001	+/-0.3	
DBC [2C]	1.00	86	30 - 135	13.561	13.559	0.002	+/-0.3	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB091-04-120106

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21007	Laboratory ID:	6L21007-MS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB091-04-120106

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.0130	1.03	101	60 - 130
gamma-BHC	1.00	0.0110	1.01	100	25 - 135
beta-BHC	1.00	7.46	9.68	221 *	65 - 125
delta-BHC	1.00	3.62	4.32	69	45 - 135
Heptachlor	1.00	ND	0.898	90	40 - 130
Aldrin	1.00	ND	0.843	84	25 - 140
Heptachlor epoxide	1.00	0.00800	0.939	93	60 - 130
Chlordane-gamma	1.00	0.0190	0.884	86	60 - 125
Chlordane-alpha	1.00	0.0240	0.897	87	65 - 125
4,4'-DDE	1.00	0.0230	0.875	85	35 - 140
Endosulfan I	1.00	ND	0.811	81	50 - 110
Dieldrin	1.00	0.126	1.14	101	60 - 130
Endrin	1.00	ND	0.996	100	55 - 135
4,4'-DDD	1.00	0.0570	1.00	95	25 - 150
Endosulfan II	1.00	ND	0.706	71	30 - 130
4,4'-DDT	1.00	0.0980	1.01	91	45 - 140
Endrin aldehyde	1.00	ND	0.936	94	55 - 135
Methoxychlor	1.00	0.0100	0.904	89	55 - 150
Endosulfan sulfate	1.00	ND	0.976	98	55 - 135
Endrin ketone	1.00	0.00900	0.973	96	75 - 125
alpha-BHC [2C]	1.00	0.0150	1.02	101	60 - 130
gamma-BHC [2C]	1.00	0.0110	1.00	99	25 - 135
beta-BHC [2C]	1.00	6.88	8.67	179 *	65 - 125
delta-BHC [2C]	1.00	3.39	4.00	61	45 - 135
Heptachlor [2C]	1.00	ND	0.952	95	40 - 130
Aldrin [2C]	1.00	ND	0.879	88	25 - 140
Heptachlor epoxide [2C]	1.00	0.00900	0.976	97	60 - 130
Chlordane-gamma [2C]	1.00	0.0110	0.892	88	60 - 125
Chlordane-alpha [2C]	1.00	0.00700	0.882	88	65 - 125
4,4'-DDE [2C]	1.00	0.0210	0.896	88	35 - 140
Endosulfan I [2C]	1.00	ND	0.859	86	50 - 110
Dieldrin [2C]	1.00	0.137	1.16	103	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB091-04-120106

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21007
Laboratory ID: 6L21007-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX47-SB091-04-120106

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	ND	1.02	102	55 - 135
4,4'-DDD [2C]	1.00	0.0650	1.02	96	25 - 150
Endosulfan II [2C]	1.00	ND	0.721	72	30 - 130
4,4'-DDT [2C]	1.00	0.0990	1.04	94	45 - 140
Endrin aldehyde [2C]	1.00	ND	0.941	94	55 - 135
Methoxychlor [2C]	1.00	0.00400	0.965	96	55 - 150
Endosulfan sulfate [2C]	1.00	ND	0.987	99	55 - 135
Endrin ketone [2C]	1.00	0.0110	0.987	98	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	1.02	101	0.5	30	60 - 130
gamma-BHC	1.00	0.995	98	1	30	25 - 135
beta-BHC	1.00	10.4	289 *	7	30	65 - 125
delta-BHC	1.00	4.52	90	5	30	45 - 135
Heptachlor	1.00	0.868	87	3	30	40 - 130
Aldrin	1.00	0.806	81	4	30	25 - 140
Heptachlor epoxide	1.00	0.927	92	1	30	60 - 130
Chlordane-gamma	1.00	0.863	84	2	30	60 - 125
Chlordane-alpha	1.00	0.874	85	3	30	65 - 125
4,4'-DDE	1.00	0.842	82	4	30	35 - 140
Endosulfan I	1.00	0.796	80	2	30	50 - 110
Dieldrin	1.00	1.18	106	4	30	60 - 130
Endrin	1.00	0.985	98	1	30	55 - 135
4,4'-DDD	1.00	1.00	94	0.3	30	25 - 150
Endosulfan II	1.00	0.699	70	1	30	30 - 130
4,4'-DDT	1.00	1.02	93	1	30	45 - 140
Endrin aldehyde	1.00	0.889	89	5	30	55 - 135
Methoxychlor	1.00	0.895	88	1	30	55 - 150
Endosulfan sulfate	1.00	0.956	96	2	30	55 - 135
Endrin ketone	1.00	0.962	95	1	30	75 - 125
alpha-BHC [2C]	1.00	1.02	100	0.5	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB091-04-120106

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21007	Laboratory ID:	6L21007-MSD1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-SB091-04-120106

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.990	98	1	30	25 - 135
beta-BHC [2C]	1.00	9.19	230 *	6	30	65 - 125
delta-BHC [2C]	1.00	4.15	76	4	30	45 - 135
Heptachlor [2C]	1.00	0.936	94	2	30	40 - 130
Aldrin [2C]	1.00	0.841	84	4	30	25 - 140
Heptachlor epoxide [2C]	1.00	0.957	95	2	30	60 - 130
Chlordane-gamma [2C]	1.00	0.868	86	3	30	60 - 125
Chlordane-alpha [2C]	1.00	0.862	86	2	30	65 - 125
4,4'-DDE [2C]	1.00	0.871	85	3	30	35 - 140
Endosulfan I [2C]	1.00	0.855	86	0.5	30	50 - 110
Dieldrin [2C]	1.00	1.20	107	3	30	60 - 130
Endrin [2C]	1.00	1.01	101	1	30	55 - 135
4,4'-DDD [2C]	1.00	1.02	95	0.4	30	25 - 150
Endosulfan II [2C]	1.00	0.711	71	1	30	30 - 130
4,4'-DDT [2C]	1.00	1.03	93	0.4	30	45 - 140
Endrin aldehyde [2C]	1.00	0.890	89	6	30	55 - 135
Methoxychlor [2C]	1.00	0.960	96	0.5	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.967	97	2	30	55 - 135
Endrin ketone [2C]	1.00	0.975	96	1	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L21007
Laboratory ID: 6L21007-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.996	100	60 - 130
gamma-BHC	1.00	1.01	101	25 - 135
beta-BHC	1.00	1.03	103	65 - 125
delta-BHC	1.00	0.995	100	45 - 135
Heptachlor	1.00	0.933	93	40 - 130
Aldrin	1.00	0.934	93	25 - 140
Heptachlor epoxide	1.00	0.948	95	60 - 130
Chlordane-gamma	1.00	0.970	97	60 - 125
Chlordane-alpha	1.00	0.963	96	65 - 125
4,4'-DDE	1.00	0.961	96	35 - 140
Endosulfan I	1.00	0.968	97	50 - 110
Dieldrin	1.00	0.951	95	60 - 130
Endrin	1.00	1.01	101	55 - 135
4,4'-DDD	1.00	0.981	98	25 - 150
Endosulfan II	1.00	0.968	97	30 - 130
4,4'-DDT	1.00	0.987	99	45 - 140
Endrin aldehyde	1.00	1.02	102	55 - 135
Methoxychlor	1.00	0.925	92	55 - 150
Endosulfan sulfate	1.00	1.00	100	55 - 135
Endrin ketone	1.00	0.966	97	75 - 125
alpha-BHC [2C]	1.00	0.997	100	60 - 130
gamma-BHC [2C]	1.00	1.00	100	25 - 135
beta-BHC [2C]	1.00	1.06	106	65 - 125
delta-BHC [2C]	1.00	1.02	102	45 - 135
Heptachlor [2C]	1.00	0.961	96	40 - 130
Aldrin [2C]	1.00	0.958	96	25 - 140
Heptachlor epoxide [2C]	1.00	0.972	97	60 - 130
Chlordane-gamma [2C]	1.00	0.998	100	60 - 125
Chlordane-alpha [2C]	1.00	0.981	98	65 - 125
4,4'-DDE [2C]	1.00	1.00	100	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L21007	Laboratory ID:	6L21007-BS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.973	97	50 - 110
Dieldrin [2C]	1.00	0.985	98	60 - 130
Endrin [2C]	1.00	1.03	103	55 - 135
4,4'-DDD [2C]	1.00	0.998	100	25 - 150
Endosulfan II [2C]	1.00	0.987	99	30 - 130
4,4'-DDT [2C]	1.00	1.02	102	45 - 140
Endrin aldehyde [2C]	1.00	1.02	102	55 - 135
Methoxychlor [2C]	1.00	0.982	98	55 - 150
Endosulfan sulfate [2C]	1.00	1.02	102	55 - 135
Endrin ketone [2C]	1.00	0.977	98	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00212	Instrument:	JSVGCECD2
Calibration:	0701020		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00212-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00212-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00212-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00212-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00212-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00212-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00212-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
Compound	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0701020	Instrument:	JSVGCECD2
Matrix:	Water	Calibration Date:	12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0701020	Instrument:	JSVGCECD2
Matrix:	Water	Calibration Date:	12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGA023-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00173	Injection Date:	01/13/07
Lab Sample ID:	BA00173-CCV1	Injection Time:	17:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.112	7.280474E+07	8.12987E+07		11.7	20
gamma-BHC	A	0.100	0.111	6.465721E+07	7.20334E+07		11.4	20
beta-BHC	A	0.100	0.112	2.323065E+07	2.6145E+07		12.5	20
delta-BHC	A	0.100	0.114	5.66961E+07	6.45545E+07		13.9	20
Heptachlor	A	0.100	0.104	6.414063E+07	6.68226E+07		4.2	20
Aldrin	A	0.100	0.106	6.149162E+07	6.53717E+07		6.3	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.5276E+07		2.2	20
Chlordane-gamma	A	0.100	0.105	5.527518E+07	5.79446E+07		4.8	20
Chlordane-alpha	A	0.100	0.104	5.296272E+07	5.50965E+07		4.0	20
4,4′-DDE	A	0.100	0.103	5.244698E+07	5.42404E+07		3.4	20
Endosulfan I	A	0.100	0.104	4.972951E+07	5.19351E+07		4.4	20
Dieldrin	A	0.100	0.102	5.436507E+07	5.55565E+07		2.2	20
Endrin	A	0.100	0.109	4.627937E+07	5.03472E+07		8.8	20
4,4′-DDD	A	0.100	0.105	4.00135E+07	4.21749E+07		5.4	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.57512E+07		3.0	20
4,4′-DDT	A	0.100	0.106	4.164772E+07	4.42519E+07		6.3	20
Endrin aldehyde	A	0.100	0.108	3.13612E+07	3.37729E+07		7.7	20
Methoxychlor	A	0.100	0.0973	2.117353E+07	2.06113E+07		-2.7	20
Endosulfan sulfate	A	0.100	0.108	3.673694E+07	3.94968E+07		7.5	20
Endrin ketone	A	0.100	0.102	4.568736E+07	4.67868E+07		2.4	20
alpha-BHC [2C]	A	0.100	0.112	7.552835E+07	8.42434E+07		11.5	20
gamma-BHC [2C]	A	0.100	0.111	6.719113E+07	7.46421E+07		11.1	20
beta-BHC [2C]	A	0.100	0.115	2.472905E+07	2.84898E+07		15.2	20
delta-BHC [2C]	A	0.100	0.116	5.850208E+07	6.81505E+07		16.5	20
Heptachlor [2C]	A	0.100	0.107	6.67268E+07	7.1615E+07		7.3	20
Aldrin [2C]	A	0.100	0.108	6.357242E+07	6.871E+07		8.1	20
Heptachlor epoxide [2C]	A	0.100	0.105	5.626251E+07	5.89636E+07		4.8	20
Chlordane-gamma [2C]	A	0.100	0.108	5.722595E+07	6.17638E+07		7.9	20
Chlordane-alpha [2C]	A	0.100	0.106	5.472749E+07	5.78436E+07		5.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGB023-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00173	Injection Date:	01/13/07
Lab Sample ID:	BA00173-CCV1	Injection Time:	17:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.107	5.341989E+07	5.73007E+07		7.3	20
Endosulfan I [2C]	A	0.100	0.105	5.087841E+07	5.3447E+07		5.0	20
Dieldrin [2C]	A	0.100	0.106	5.608619E+07	5.93929E+07		5.9	20
Endrin [2C]	A	0.100	0.111	4.605028E+07	5.1169E+07		11.1	20
4,4'-DDD [2C]	A	0.100	0.106	4.157866E+07	4.40609E+07		6.0	20
Endosulfan II [2C]	A	0.100	0.105	4.58875E+07	4.8196E+07		5.0	20
4,4'-DDT [2C]	A	0.100	0.105	4.184652E+07	4.3777E+07		4.6	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.50767E+07		8.5	20
Methoxychlor [2C]	A	0.100	0.103	2.018515E+07	2.07514E+07		2.8	20
Endosulfan sulfate [2C]	A	0.100	0.109	3.836149E+07	4.17474E+07		8.8	20
Endrin ketone [2C]	A	0.100	0.103	4.596086E+07	4.74532E+07		3.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGA034-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00173	Injection Date:	01/13/07
Lab Sample ID:	BA00173-CCV2	Injection Time:	22:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.113	7.280474E+07	8.21345E+07		12.8	20
gamma-BHC	A	0.100	0.113	6.465721E+07	7.30518E+07		13.0	20
beta-BHC	A	0.100	0.115	2.323065E+07	2.67922E+07		15.3	20
delta-BHC	A	0.100	0.117	5.66961E+07	6.6331E+07		17.0	20
Heptachlor	A	0.100	0.106	6.414063E+07	6.80779E+07		6.1	20
Aldrin	A	0.100	0.109	6.149162E+07	6.68171E+07		8.7	20
Heptachlor epoxide	A	0.100	0.104	5.405995E+07	5.64585E+07		4.4	20
Chlordane-gamma	A	0.100	0.108	5.527518E+07	5.94952E+07		7.6	20
Chlordane-alpha	A	0.100	0.106	5.296272E+07	5.63829E+07		6.5	20
4,4′-DDE	A	0.100	0.105	5.244698E+07	5.50757E+07		5.0	20
Endosulfan I	A	0.100	0.107	4.972951E+07	5.33669E+07		7.3	20
Dieldrin	A	0.100	0.104	5.436507E+07	5.65789E+07		4.1	20
Endrin	A	0.100	0.111	4.627937E+07	5.12243E+07		10.7	20
4,4′-DDD	A	0.100	0.107	4.00135E+07	4.28756E+07		7.2	20
Endosulfan II	A	0.100	0.105	4.442927E+07	4.66118E+07		4.9	20
4,4′-DDT	A	0.100	0.108	4.164772E+07	4.49929E+07		8.0	20
Endrin aldehyde	A	0.100	0.111	3.13612E+07	3.46976E+07		10.6	20
Methoxychlor	A	0.100	0.0989	2.117353E+07	2.09355E+07		-1.1	20
Endosulfan sulfate	A	0.100	0.110	3.673694E+07	4.04968E+07		10.2	20
Endrin ketone	A	0.100	0.105	4.568736E+07	4.7908E+07		4.9	20
alpha-BHC [2C]	A	0.100	0.115	7.552835E+07	8.65514E+07		14.6	20
gamma-BHC [2C]	A	0.100	0.114	6.719113E+07	7.66205E+07		14.0	20
beta-BHC [2C]	A	0.100	0.119	2.472905E+07	2.95169E+07		19.4	20
delta-BHC [2C]	A	0.100	0.120	5.850208E+07	7.02786E+07		20.1	20
Heptachlor [2C]	A	0.100	0.111	6.67268E+07	7.43613E+07		11.4	20
Aldrin [2C]	A	0.100	0.112	6.357242E+07	7.10532E+07		11.8	20
Heptachlor epoxide [2C]	A	0.100	0.108	5.626251E+07	6.105E+07		8.5	20
Chlordane-gamma [2C]	A	0.100	0.112	5.722595E+07	6.40786E+07		12.0	20
Chlordane-alpha [2C]	A	0.100	0.110	5.472749E+07	6.00558E+07		9.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AGB034-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00173	Injection Date:	01/13/07
Lab Sample ID:	BA00173-CCV2	Injection Time:	22:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.111	5.341989E+07	5.91607E+07		10.7	20
Endosulfan I [2C]	A	0.100	0.109	5.087841E+07	5.54057E+07		8.9	20
Dieldrin [2C]	A	0.100	0.110	5.608619E+07	6.15605E+07		9.8	20
Endrin [2C]	A	0.100	0.116	4.605028E+07	5.32691E+07		15.7	20
4,4'-DDD [2C]	A	0.100	0.110	4.157866E+07	4.57773E+07		10.1	20
Endosulfan II [2C]	A	0.100	0.109	4.58875E+07	5.00554E+07		9.1	20
4,4'-DDT [2C]	A	0.100	0.104	4.184652E+07	4.34547E+07		3.8	20
Endrin aldehyde [2C]	A	0.100	0.113	3.232817E+07	3.64141E+07		12.6	20
Methoxychlor [2C]	A	0.100	0.106	2.018515E+07	2.14965E+07		6.5	20
Endosulfan sulfate [2C]	A	0.100	0.114	3.836149E+07	4.35228E+07		13.5	20
Endrin ketone [2C]	A	0.100	0.108	4.596086E+07	4.94663E+07		7.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA014-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00173	Injection Date:	01/16/07
Lab Sample ID:	BA00173-CCV4	Injection Time:	16:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.109	7.280474E+07	7.95299E+07		9.2	20
gamma-BHC	A	0.100	0.109	6.465721E+07	7.0638E+07		9.2	20
beta-BHC	A	0.100	0.111	2.323065E+07	2.56848E+07		10.6	20
delta-BHC	A	0.100	0.112	5.66961E+07	6.34822E+07		12.0	20
Heptachlor	A	0.100	0.102	6.414063E+07	6.55238E+07		2.2	20
Aldrin	A	0.100	0.106	6.149162E+07	6.52439E+07		6.1	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.53911E+07		2.5	20
Chlordane-gamma	A	0.100	0.106	5.527518E+07	5.86501E+07		6.1	20
Chlordane-alpha	A	0.100	0.105	5.296272E+07	5.56817E+07		5.1	20
4,4′-DDE	A	0.100	0.103	5.244698E+07	5.40006E+07		3.0	20
Endosulfan I	A	0.100	0.106	4.972951E+07	5.26073E+07		5.8	20
Dieldrin	A	0.100	0.101	5.436507E+07	5.49773E+07		1.1	20
Endrin	A	0.100	0.103	4.627937E+07	4.75369E+07		2.7	20
4,4′-DDD	A	0.100	0.104	4.00135E+07	4.16637E+07		4.1	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.58825E+07		3.3	20
4,4′-DDT	A	0.100	0.104	4.164772E+07	4.33887E+07		4.2	20
Endrin aldehyde	A	0.100	0.111	3.13612E+07	3.48143E+07		11.0	20
Methoxychlor	A	0.100	0.0919	2.117353E+07	1.9449E+07		-8.1	20
Endosulfan sulfate	A	0.100	0.104	3.673694E+07	3.81292E+07		3.8	20
Endrin ketone	A	0.100	0.101	4.568736E+07	4.59767E+07		0.6	20
alpha-BHC [2C]	A	0.100	0.105	7.552835E+07	7.91051E+07		4.7	20
gamma-BHC [2C]	A	0.100	0.104	6.719113E+07	6.96756E+07		3.7	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.66078E+07		7.6	20
delta-BHC [2C]	A	0.100	0.106	5.850208E+07	6.22052E+07		6.3	20
Heptachlor [2C]	A	0.100	0.103	6.67268E+07	6.85183E+07		2.7	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.57676E+07		3.5	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.67376E+07		0.8	20
Chlordane-gamma [2C]	A	0.100	0.104	5.722595E+07	5.96581E+07		4.3	20
Chlordane-alpha [2C]	A	0.100	0.104	5.472749E+07	5.66483E+07		3.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB014-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00173	Injection Date:	01/16/07
Lab Sample ID:	BA00173-CCV4	Injection Time:	16:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.103	5.341989E+07	5.49476E+07		2.9	20
Endosulfan I [2C]	A	0.100	0.104	5.087841E+07	5.27332E+07		3.6	20
Dieldrin [2C]	A	0.100	0.102	5.608619E+07	5.74184E+07		2.4	20
Endrin [2C]	A	0.100	0.102	4.605028E+07	4.67802E+07		1.6	20
4,4'-DDD [2C]	A	0.100	0.103	4.157866E+07	4.2686E+07		2.7	20
Endosulfan II [2C]	A	0.100	0.103	4.58875E+07	4.72642E+07		3.0	20
4,4'-DDT [2C]	A	0.100	0.0971	4.184652E+07	4.0649E+07		-2.9	20
Endrin aldehyde [2C]	A	0.100	0.108	3.232817E+07	3.50331E+07		8.4	20
Methoxychlor [2C]	A	0.100	0.0939	2.018515E+07	1.89483E+07		-6.1	20
Endosulfan sulfate [2C]	A	0.100	0.102	3.836149E+07	3.89315E+07		1.5	20
Endrin ketone [2C]	A	0.100	0.0982	4.596086E+07	4.51339E+07		-1.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKA021-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00173	Injection Date:	01/16/07
Lab Sample ID:	BA00173-CCV5	Injection Time:	19:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.109	7.280474E+07	7.92068E+07		8.8	20
gamma-BHC	A	0.100	0.109	6.465721E+07	7.03214E+07		8.8	20
beta-BHC	A	0.100	0.111	2.323065E+07	2.58349E+07		11.2	20
delta-BHC	A	0.100	0.109	5.66961E+07	6.18222E+07		9.0	20
Heptachlor	A	0.100	0.101	6.414063E+07	6.48457E+07		1.1	20
Aldrin	A	0.100	0.106	6.149162E+07	6.50374E+07		5.8	20
Heptachlor epoxide	A	0.100	0.102	5.405995E+07	5.50635E+07		1.9	20
Chlordane-gamma	A	0.100	0.106	5.527518E+07	5.84179E+07		5.7	20
Chlordane-alpha	A	0.100	0.105	5.296272E+07	5.55503E+07		4.9	20
4,4′-DDE	A	0.100	0.101	5.244698E+07	5.27475E+07		0.6	20
Endosulfan I	A	0.100	0.107	4.972951E+07	5.3341E+07		7.3	20
Dieldrin	A	0.100	0.102	5.436507E+07	5.52556E+07		1.6	20
Endrin	A	0.100	0.102	4.627937E+07	4.70284E+07		1.6	20
4,4′-DDD	A	0.100	0.102	4.00135E+07	4.09016E+07		2.2	20
Endosulfan II	A	0.100	0.103	4.442927E+07	4.56258E+07		2.7	20
4,4′-DDT	A	0.100	0.102	4.164772E+07	4.27015E+07		2.5	20
Endrin aldehyde	A	0.100	0.110	3.13612E+07	3.44167E+07		9.7	20
Methoxychlor	A	0.100	0.0896	2.117353E+07	1.8971E+07		-10.4	20
Endosulfan sulfate	A	0.100	0.103	3.673694E+07	3.78093E+07		2.9	20
Endrin ketone	A	0.100	0.0997	4.568736E+07	4.55362E+07		-0.3	20
alpha-BHC [2C]	A	0.100	0.105	7.552835E+07	7.9424E+07		5.2	20
gamma-BHC [2C]	A	0.100	0.105	6.719113E+07	7.03946E+07		4.8	20
beta-BHC [2C]	A	0.100	0.108	2.472905E+07	2.68231E+07		8.5	20
delta-BHC [2C]	A	0.100	0.108	5.850208E+07	6.32094E+07		8.0	20
Heptachlor [2C]	A	0.100	0.102	6.67268E+07	6.77237E+07		1.5	20
Aldrin [2C]	A	0.100	0.104	6.357242E+07	6.62283E+07		4.2	20
Heptachlor epoxide [2C]	A	0.100	0.101	5.626251E+07	5.70683E+07		1.4	20
Chlordane-gamma [2C]	A	0.100	0.105	5.722595E+07	6.01111E+07		5.0	20
Chlordane-alpha [2C]	A	0.100	0.104	5.472749E+07	5.71271E+07		4.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0701020
Lab File ID:	9AKB021-0	Calibration Date:	12/12/06 10:53
Sequence:	BA00173	Injection Date:	01/16/07
Lab Sample ID:	BA00173-CCV5	Injection Time:	19:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.104	5.341989E+07	5.55672E+07		4.0	20
Endosulfan I [2C]	A	0.100	0.105	5.087841E+07	5.32135E+07		4.6	20
Dieldrin [2C]	A	0.100	0.103	5.608619E+07	5.7847E+07		3.1	20
Endrin [2C]	A	0.100	0.101	4.605028E+07	4.66406E+07		1.3	20
4,4'-DDD [2C]	A	0.100	0.102	4.157866E+07	4.24498E+07		2.1	20
Endosulfan II [2C]	A	0.100	0.104	4.58875E+07	4.76744E+07		3.9	20
4,4'-DDT [2C]	A	0.100	0.0990	4.184652E+07	4.14234E+07		-1.0	20
Endrin aldehyde [2C]	A	0.100	0.109	3.232817E+07	3.51279E+07		8.7	20
Methoxychlor [2C]	A	0.100	0.0923	2.018515E+07	1.86242E+07		-7.7	20
Endosulfan sulfate [2C]	A	0.100	0.101	3.836149E+07	3.87609E+07		1.0	20
Endrin ketone [2C]	A	0.100	0.0978	4.596086E+07	4.49454E+07		-2.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-01	File ID:	9AKA018-0
Sampled:	12/01/06 11:29	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 18:00
Solids:	93.91	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21007	Sequence:	BA00173		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.418	8.816429	0.398		0.019	
delta-BHC	* 1	8.722	9.124286	0.402		0.005	20
Chlordane-gamma	* 1	10.743	11.14771	0.405		0.005	25
Chlordane-alpha	1	10.941	11.34971	0.409		0.010	150
4,4'-DDE	* 1	11.1	11.48286	0.383		0.003	
Dieldrin	* 1	11.511	11.91886	0.408		0.004	33.3
4,4'-DDD	* 1	11.99	12.37786	0.388		0.037	
Endosulfan II	* 1	12.181	12.60057	0.42		0.018	157
4,4'-DDT	* 1	12.392	12.78071	0.389		0.017	
beta-BHC	2	8.324	8.687429	0.363		0.018	5.56
delta-BHC	2	8.814	9.180286	0.366		0.006	20
Chlordane-gamma	2	10.599	10.97329	0.374		0.004	25
Chlordane-alpha	* 2	10.822	11.19143	0.369		0.004	150
4,4'-DDE	2	11.119	11.47543	0.356		0.002	
Dieldrin	2	11.3	11.67429	0.374		0.003	33.3
4,4'-DDD	2	11.969	12.32514	0.356		0.040	
Endosulfan II	2	12.082	12.43571	0.354		0.007	157
4,4'-DDT	2	12.413	12.77157	0.359		0.018	
2,4,5,6-TCMX	* 1	6.439	6.848286	0.409		0.977	6.78
2,4,5,6-TCMX	2	6.183	6.564286	0.381		0.915	
DBC	* 1	13.721	14.10214	0.381		0.948	3.61
DBC	2	13.56	13.90914	0.349		0.915	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-02	File ID:	9AKA019-0
Sampled:	12/01/06 11:39	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 18:26
Solids:	93.86	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21007	Sequence:	BA00173		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.419	8.816429	0.397		0.029	11.5
delta-BHC	* 1	8.723	9.124286	0.401		0.003	0.00000
Heptachlor epoxide	* 1	10.551	10.95643	0.405		0.004	(350)
Chlordane-gamma	1	10.771	11.14771	0.377		0.044	267
Chlordane-alpha	1	10.938	11.34971	0.412		0.020	150
4,4'-DDE	* 1	11.102	11.48286	0.381		0.003	
Dieldrin	* 1	11.512	11.91886	0.407		0.011	0.00000
4,4'-DDD	* 1	11.99	12.37786	0.388		0.039	
4,4'-DDT	* 1	12.393	12.78071	0.388		0.017	
beta-BHC	2	8.325	8.687429	0.362		0.026	11.5
delta-BHC	2	8.816	9.180286	0.364		0.003	0.00000
Heptachlor epoxide	2	10.317	10.67843	0.361		0.018	350
Chlordane-gamma	* 2	10.6	10.97329	0.373		0.012	(267)
Chlordane-alpha	* 2	10.823	11.19143	0.368		0.008	(150)
4,4'-DDE	2	11.112	11.47543	0.363		0.003	
Dieldrin	2	11.301	11.67429	0.373		0.011	0.00000
4,4'-DDD	2	11.969	12.32514	0.356		0.041	
4,4'-DDT	2	12.413	12.77157	0.359		0.017	
Methoxychlor	2	13.481	13.77371	0.293		0.009	
2,4,5,6-TCMX	* 1	6.44	6.848286	0.408		0.943	7.04
2,4,5,6-TCMX	2	6.184	6.564286	0.38		0.881	
DBC	* 1	13.722	14.10214	0.38		0.942	4.2
DBC	2	13.56	13.90914	0.349		0.904	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-03	File ID:	9AGA031-0
Sampled:	12/01/06 11:09	Prepared:	12/19/06 18:06	Analyzed:	01/13/07 20:46
Solids:	90.98	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21007	Sequence:	BA00173		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Chlordane-gamma	* 1	10.779	11.14771	0.369		0.016	14.3
Chlordane-alpha	1	10.977	11.34971	0.373		0.031	107
4,4′-DDE	* 1	11.129	11.48286	0.354		0.007	
Dieldrin	* 1	11.546	11.91886	0.373		0.009	11.1
4,4′-DDD	* 1	12.02	12.37786	0.358		0.023	
4,4′-DDT	* 1	12.423	12.78071	0.358		0.015	
Heptachlor epoxide	2	10.3	10.67843	0.378		0.008	
Chlordane-gamma	2	10.632	10.97329	0.341		0.014	14.3
Chlordane-alpha	* 2	10.856	11.19143	0.335		0.015	107
4,4'-DDE	2	11.15	11.47543	0.325		0.006	
Dieldrin	2	11.333	11.67429	0.341		0.010	11.1
4,4'-DDD	2	11.998	12.32514	0.327		0.030	
4,4'-DDT	2	12.444	12.77157	0.328		0.015	
2,4,5,6-TCMX	* 1	6.474	6.848286	0.374		0.912	2.7
2,4,5,6-TCMX	2	6.218	6.564286	0.346		0.888	
DBC	* 1	13.753	14.10214	0.349		0.772	2.33
DBC	2	13.59	13.90914	0.319		0.790	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-04	File ID:	9AGA032-0
Sampled:	12/01/06 11:15	Prepared:	12/19/06 18:06	Analyzed:	01/13/07 21:12
Solids:	74.73	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21007	Sequence:	BA00173		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	7.651	8.023286	0.372		0.013	15.4
gamma-BHC	* 1	8.256	8.628	0.372		0.011	0.00000
Heptachlor epoxide	* 1	10.583	10.95643	0.373		0.008	12.5
Chlordane-gamma	* 1	10.801	11.14771	0.347		0.019	72.7
Chlordane-alpha	1	10.965	11.34971	0.385		0.024	243
4,4′-DDE	* 1	11.127	11.48286	0.356		0.023	
Dieldrin	* 1	11.544	11.91886	0.375		0.126	8.73
4,4′-DDD	* 1	12.018	12.37786	0.36		0.057	
4,4′-DDT	* 1	12.421	12.78071	0.36		0.098	
Methoxychlor	* 1	13.12	13.48543	0.365		0.010	150
Endrin ketone	* 1	13.87	14.25229	0.382		0.009	22.2
alpha-BHC	2	7.496	7.838	0.342		0.015	15.4
gamma-BHC	2	8.156	8.497428	0.341		0.011	0.00000
Heptachlor epoxide	2	10.308	10.67843	0.37		0.009	12.5
Chlordane-gamma	2	10.63	10.97329	0.343		0.011	72.7
Chlordane-alpha	* 2	10.854	11.19143	0.337		0.007	243
4,4'-DDE	2	11.148	11.47543	0.327		0.021	
Dieldrin	2	11.332	11.67429	0.342		0.137	8.73
4,4'-DDD	2	11.996	12.32514	0.329		0.065	
4,4'-DDT	2	12.441	12.77157	0.331		0.099	
Methoxychlor	2	13.458	13.77371	0.316		0.004	150
Endrin ketone	2	13.734	14.08214	0.348		0.011	22.2
2,4,5,6-TCMX	* 1	6.473	6.848286	0.375		0.836	1.21
2,4,5,6-TCMX	2	6.217	6.564286	0.347		0.826	
DBC	* 1	13.75	14.10214	0.352		0.677	2.36
DBC	2	13.588	13.90914	0.321		0.693	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-04RE1	File ID:	9AKB017-0
Sampled:	12/01/06 11:15	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 17:34
Solids:	74.73	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21007	Sequence:	BA00173		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.418	8.816429	0.398		7.52	1.08
delta-BHC	* 1	8.723	9.124286	0.401		3.84	0.521
beta-BHC	2	8.324	8.687429	0.363		7.44	1.08
delta-BHC	2	8.815	9.180286	0.365		3.86	0.521

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-013
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	soil	Laboratory ID:	B610377-05	File ID:	9AKA020-0
Sampled:	12/01/06 11:22	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 18:52
Solids:	84.00	Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L21007	Sequence:	BA00173		

GC Column(1): GC Column(2):

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.42	8.816429	0.396		0.089	2.3
delta-BHC	* 1	8.725	9.124286	0.399		0.026	4
Chlordane-gamma	1	10.745	11.14771	0.403		0.005	0.00000
Chlordane-alpha	* 1	10.942	11.34971	0.408		0.011	~~175~~
4,4'-DDE	* 1	11.101	11.48286	0.382		0.003	
Dieldrin	* 1	11.513	11.91886	0.406		0.017	6.25
4,4'-DDD	* 1	11.991	12.37786	0.387		0.044	
4,4'-DDT	* 1	12.394	12.78071	0.387		0.021	
beta-BHC	2	8.326	8.687429	0.361		0.087	2.3
delta-BHC	2	8.817	9.180286	0.363		0.025	4
Chlordane-gamma	* 2	10.601	10.97329	0.372		0.005	0.00000
Chlordane-alpha	2	10.824	11.19143	0.367		0.004	175
4,4'-DDE	2	11.121	11.47543	0.354		0.002	
Dieldrin	2	11.301	11.67429	0.373		0.016	6.25
4,4'-DDD	2	11.97	12.32514	0.355		0.050	
4,4'-DDT	2	12.414	12.77157	0.358		0.020	
2,4,5,6-TCMX	* 1	6.442	6.848286	0.406		1.01	6.78
2,4,5,6-TCMX	2	6.185	6.564286	0.379		0.944	6.99
DBC	* 1	13.722	14.10214	0.38		0.902	4.76
DBC	2	13.561	13.90914	0.348		0.861	

* Column used for quantitation

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT		JOB NUMBER	
NAS Jacksonville		B2006-013	
SUBJECT	Peat		
BASED ON	8081	DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE

JAX 47-53091-04-120106

beta-BHC = 7.52 ug/L

$$\frac{8725\,72{,}5 \times 5000\,ml \times 20}{2352\,30650 \times 500\,ml \times 1\,ul} = 7.5$$

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB091-04-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-013	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	soil	Laboratory ID:	B610377-04RE1	File ID:	9AKB017-0
Sampled:	12/01/06 11:15	Prepared:	12/19/06 18:06	Analyzed:	01/16/07 17:34
Solids:	74.73	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L21007	Sequence:	BA00173	Calibration:	0701020
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-85-7	beta-BHC	20	7.52	D
319-86-8	delta-BHC	20	3.84	D

* Values outside of QC limits

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0701020
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 10:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

Software Version: 4.1<1L22>
Sample Name : b610377-04@d20 Time : 1/18/07 12:24 PM
Sample Number: 17 Study : 8081 splp
Operator : jbh

Instrument : JSVGCECD2 Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 4207271739 Data Acquisition Time: 1/16/07 05:34 PM
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 4.1660 pts/sec

Raw Data File : C:\TC4\HP6890\9AKA017.RAW
Result File : C:\TC4\HP6890\9AKA017.RST
Inst Method : C:\TC4\HP6890\608-2 from C:\TC4\HP6890\9AKA017.RST
Proc Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9AKA017.RST
Calib Method : C:\TC4\HP6890\8081A9LG from C:\TC4\HP6890\9AKA017.RST
Sequence File : C:\TC4\METHODS\9AK.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 20.00

manually adjusted baseline

Environmental Conservation Laboratories

PRIMARY COLUMN (DETECTOR A) STX-Clpesticide 30M .32id .50DF
EPA 8081 Analysis Curve 0.005mg/L --> 0.2mg/L (8081a9lg on 12/12/06)
1 ppm TCMX(surr) and DBC(surr)
1 ppm CVS / LCS Injection volume = 1.0 ul

Peak #	Time [min]	Component Name	Area [µV·s]	Concentration [mg/L]	Adjusted Concentration mg/L
11	6.439	2,4,5,6-TCMX	170450.08	0.0038	0.0767
0	7.631	ALPHA-BHC	0.00	0.0000	0.0000
0	8.237	GAMMA-BHC (LINDANE)	0.00	0.0000	0.0000
12	8.418	BETA-BHC	872572.50	0.0376	0.7512
14	8.723	DELTA-BHC	1085878.33	0.0192	0.3831
0	9.073	HEPTACHLOR	0.00	0.0000	0.0000
0	9.570	ALDRIN	0.00	0.0000	0.0000
0	10.114	ISODRIN	0.00	0.0000	0.0000
0	10.565	HEPTACHLOR EPOXIDE	0.00	0.0000	0.0000
0	10.758	chlordane gamma	0.00	0.0000	0.0000
17	10.984	chlordane alpha	5326.45	0.0001	0.0020
0	11.109	4,4'-DDE	0.00	0.0000	0.0000
0	11.164	ENDOSULFAN I	0.00	0.0000	0.0000
19	11.511	DIELDRIN	37561.21	0.0007	0.0138
0	11.869	ENDRIN	0.00	0.0000	0.0000
20	11.995	4,4'-DDD	7482.00	0.0002	0.0037
0	12.208	ENDOSULFAN II	0.00	0.0000	0.0000
21	12.395	4,4'-DDT	24259.48	0.0006	0.0116
22	12.785	ENDRIN ALDEHYDE	34330.29	0.0011	0.0219

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **FEBRUARY 26, 2007**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC / SPLP ARSENIC**
NAS JACKSONVILLE – CTO 047
SAMPLE DELIVERY GROUP (SDG) – BR006-013

SAMPLES: 5/Leachates/

JAX47-SB090-03-120106
JAX47-SB091-01-120106
JAX47-SB091-06-120106
JAX47-SB090-06-120106
JAX47-SB091-04-120106

5/Soils/

JAX47-SB090-03-120106
JAX47-SB091-01-120106
JAX47-SB091-06-120106
JAX47-SB090-06-120106
JAX47-SB091-04-120106

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-013, consists of five (5) leachate and five (5) soil environmental samples. Samples JAX47-SB090-03-120106 and JAX47-SB091-04-120106 are the field duplicate pairs of samples JAX47-DU03-120106 and JAX47-DU02-120106, respectively.

All samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS, Inc. on December 6, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using EPA methods 1312/3050B and 6010B methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminant was detected in the laboratory preparation blank at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Arsenic[(1)]	0.161 mg/kg	0.805 mg/kg

[(1)] Affects soil samples only.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Arsenic was qualified due to laboratory blank contamination.

Notes

None.

Executive Summary

Laboratory Performance: Several soil samples were qualified due to blank contamination.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", October 2004.

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Chemist / Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Appendix A
Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-013 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB090-03-120106	nsample	JAX47-SB090-06-120106	nsample	JAX47-SB091-01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610377-01	lab_id	B610377-02	lab_id	B610377-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	93.9	Pct_Solids	93.9	Pct_Solids	91.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	A

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.6	U	A

PROJ_NO: 00497

SDG: BR006-013 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB091-04-120106	nsample	JAX47-SB091-06-120106
samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610377-04	lab_id	B610377-05
qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG
Pct_Solids	74.7	Pct_Solids	84.0
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2		

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.1		

PROJ_NO: 00497

SDG: BR006-013 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB090-03-120106	nsample	JAX47-SB090-06-120106	nsample	JAX47-SB091-01-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610377-01	lab_id	B610377-02	lab_id	B610377-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids	93.9	Pct_Solids	93.9	Pct_Solids	91.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

PROJ_NO: 00497

SDG: BR006-013 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	JAX47-SB091-04-120106	nsample	JAX47-SB091-06-120106
samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610377-04	lab_id	B610377-05
qc_type	NM	qc_type	NM
units	MG/L	units	MG/L
Pct_Solids	74.7	Pct_Solids	84.0
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.006		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.004	U	

Appendix B
Results as reported by the Laboratory

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB090-03-120106

Laboratory: ENCO Jacksonville — SDG: BR006-013

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — Laboratory ID: B610377-01 — File ID: 011107a-023

Sampled: 12/01/06 11:29 — Prepared: 01/10/07 16:01 — Analyzed: 01/11/07 11:37

Solids: 93.91 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10025 — Sequence: BA00157 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB090-06-120106

Laboratory: ENCO Jacksonville SDG: BR006-013

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610377-02 *File ID:* 011107a-024

Sampled: 12/01/06 11:39 Prepared: 01/10/07 16:01 Analyzed: 01/11/07 11:44

Solids: 93.86 Preparation: EPA 3010A Initial/Final: 50 mL / 50 mL

Batch: 7A10025 Sequence: BA00157 Calibration: 0701006 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB091-01-120106

Laboratory: ENCO Jacksonville | SDG: BR006-013

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610377-03 | *File ID:* 011107a-025

Sampled: 12/01/06 11:09 | Prepared: 01/10/07 16:01 | Analyzed: 01/11/07 11:52

Solids: 90.98 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10025 | Sequence: BA00157 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB091-04-120106

Laboratory: ENCO Jacksonville | SDG: BR006-013

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: soil | *Laboratory ID:* B610377-04 | *File ID:* 011107a-026

Sampled: 12/01/06 11:15 | Prepared: 01/10/07 16:01 | Analyzed: 01/11/07 11:59

Solids: 74.73 | Preparation: EPA 3010A | Initial/Final: 50 mL / 50 mL

Batch: 7A10025 | Sequence: BA00157 | Calibration: 0701006 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.006	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB091-06-120106

Laboratory: ENCO Jacksonville — SDG: BR006-013

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610377-05 — *File ID:* 011107a-027

Sampled: 12/01/06 11:22 — Prepared: 01/10/07 16:01 — Analyzed: 01/11/07 12:06

Solids: 84.00 — Preparation: EPA 3010A — Initial/Final: 50 mL / 50 mL

Batch: 7A10025 — Sequence: BA00157 — Calibration: 0701006 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.010	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB090-03-120106

Laboratory: ENCO Jacksonville — SDG: BR006-013

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — Laboratory ID: B610377-01 — File ID: 122006a-039

Sampled: 12/01/06 11:29 — Prepared: 12/14/06 15:03 — Analyzed: 12/20/06 13:35

Solids: 93.91 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L14021 — Sequence: BA00109 — Calibration: 0612014 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.4	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB090-06-120106

Laboratory: ENCO Jacksonville SDG: BR006-013

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610377-02 *File ID:* 122006a-040

Sampled: 12/01/06 11:39 Prepared: 12/14/06 15:03 Analyzed: 12/20/06 13:42

Solids: 93.86 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L14021 Sequence: BA00109 Calibration: 0612014 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.3	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB091-01-120106

Laboratory: ENCO Jacksonville — SDG: BR006-013

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610377-03 — *File ID:* 122006a-041

Sampled: 12/01/06 11:09 — Prepared: 12/14/06 15:03 — Analyzed: 12/20/06 13:48

Solids: 90.98 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L14021 — Sequence: BA00109 — Calibration: 0612014 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.6	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB091-04-120106

Laboratory: ENCO Jacksonville — SDG: BR006-013

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: soil — *Laboratory ID:* B610377-04 — File ID: 122006a-042

Sampled: 12/01/06 11:15 — Prepared: 12/14/06 15:03 — Analyzed: 12/20/06 13:54

Solids: 74.73 — Preparation: EPA 3050B — Initial/Final: 1 g / 50 mL

Batch: 6L14021 — Sequence: BA00109 — Calibration: 0612014 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	2.0	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-SB091-06-120106

Laboratory: ENCO Jacksonville SDG: BR006-013

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: soil *Laboratory ID:* B610377-05 *File ID:* 122006a-043

Sampled: 12/01/06 11:22 Prepared: 12/14/06 15:03 Analyzed: 12/20/06 14:01

Solids: 84.00 Preparation: EPA 3050B Initial/Final: 1 g / 50 mL

Batch: 6L14021 Sequence: BA00109 Calibration: 0612014 Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	3.1	1		EPA 6010B

Appendix C
Support Documentation

Metals

Method: The samples were extracted by USEPA Method 1312/3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-Volatiles

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 1312/3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Matrix Spike and Matrix Spike Duplicate were outside the DoD QSM control limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following *signatures*.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.25 11:17:11 -05'00'

Christina M. Tompkins
Project Manager

Metals

Method: The samples were extracted by USEPA Method 3050B and analyzed by EPA Method 6010B. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications.

Semi-Volatiles

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3545/8081A. Soils were received into the laboratory in satisfactory condition.
Comments: The analyses for these samples were completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- JAX47-SB091-01-20106 was submitted for EPA method 8081A but was not requested on the Chain of Custody form. This sample was analyzed per client request.
- Surrogate 2,4,5,6-TCMX for JAX47-SB091-04-120106 and JAX47-SB091-06-120106 was outside the DoD QSM control limits. The data was accepted based on the surrogate DBC being within the DoD QSM control limits.
- 4,4 DDT for Continuing Calibration Verification Standard 4 resulted outside and below the DoD QSM limit. Any sample result associated with this standard/compound is considered to be estimated bias low.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following *signatures*.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins

Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.01.17 08:35:08 -05'00'

Christina M. Tompkins
Project Manager

B610377 B610359
B610372
B610373
B610375

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1212006-2

Project No: 112G00497	Facility: JACKSONVILLE NAS	Project Manager: Mark Peterson	Carrier: Hand Deliver	Laboratory Name: Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216
Task No: CTO 0047	Turn Around Time: Standard	Field Ops Leader: Charles Metz	Carrier/Waybill No.	Point of Contact: Lab Contact 904-296-3007

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
11/30/2006	JAX47-937MW2S-113006	16:10	SW-846 8081A and 8270C Extended	JAX-47-937MW2S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-937MW2S-113006	16:10	SW-846 6010B or 6020 (filtered)	JAX-47-937MW2S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW2S-113006	16:10	SW-846 8260B Extended	JAX-47-937MW2S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW2S-113006	16:10	SW-846 6010B or 6020	JAX-47-937MW2S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	SW-846 8260B Extended	JAX-47-937MW6D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-937MW6D-113006	14:50	SW-846 6010B or 6020 (filtered)	JAX-47-937MW6D	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-937MW6D-113006	14:50	SW-846 8081A and 8270C Extended	JAX-47-937MW6D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-937MW6D-113006	14:50	SW-846 6010B or 6020	JAX-47-937MW6D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	SW-846 6010B or 6020	JAX-47-MW10S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-MW10S-113006	16:15	SW-846 8081A and 8270C Extended	JAX-47-MW10S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	SW-846 8081A and 8270C Extended	JAX-47-MW18D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
11/30/2006	JAX47-MW18D-113006	10:10	SW-846 8260B Extended	JAX-47-MW18D	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18D-113006	10:10	SW-846 6010B or 6020	JAX-47-MW18D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml Amber	
11/30/2006	JAX47-MW18S-113006	12:07	SW-846 8260B Extended	JAX-47-MW18S	GW	TCL VOCs	4° C/HCL	3	Glass	40ml vials	
11/30/2006	JAX47-MW18S-113006	12:07	SW-846 6010B or 6020	JAX-47-MW18S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
11/30/2006	JAX47-	12:07	SW-846 8081A	JAX-47-MW18S	GW	TCL	None	2	Glass	1L Amber	

12/01/2006	JAX47-SB080-05-120106	09:39	SW-846 8081A	JAX47-SB080	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB080-05-120106	09:39	SW-846 6010B or 6020	JAX47-SB080	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	SW-846 6010B or 6020	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB081-02-120106	10:25	SW-846 8081A	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	SW-846 8081A	JAX47-SB081	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB081-05-120106	10:32	SW-846 6010B or 6020	JAX47-SB081	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	SW-846 6010B or 6020	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-02-120106	10:15	SW-846 8081A	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	SW-846 6010B or 6020	JAX47-SB082	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB082-05-120106	10:21	SW-846 8081A	JAX47-SB082	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	SW-846 6010B or 6020	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-01-120106	09:52	SW-846 8081A	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	SW-846 6010B or 6020	JAX47-SB083	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB083-05-120106	09:58	SW-846 8081A	JAX47-SB083	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	SW-846 8081A	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-01-120106	10:40	SW-846 6010B or 6020	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	SW-846 8081A	JAX47-SB087	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB087-05-120106	10:48	SW-846 6010B or 6020	JAX47-SB087	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	SW-846 6010B or 6020	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-03-120106	11:45	SW-846 8081A	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	SW-846 8081A	JAX47-SB088	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB088-06-120106	11:59	SW-846 6010B or 6020	JAX47-SB088	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-03-120106	11:29	SW-846 8081A	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-	11:29	SW-846 6010B	JAX47-SB090	SO	Arsenic	None	3	Glass	8 oz. wide-	Run MS/MSD

	03-120106		or 6020							mouth clear w/Teflon cap	for aresenic only
12/01/2006	JAX47-SB090-06-120106	11:39	SW-846 8081A	JAX47-SB090	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB090-06-120106	11:39	SW-846 6010B or 6020	JAX47-SB090	SO	Arsenic	None	1	Glass	4 oz. wide-mouth clear w/Teflon cap	
12/01/2006	JAX47-SB091-01-120106	11:09	SW-846 6010B or 6020	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-04-120106	11:15	SW-846 8081A	JAX47-SB091	SO	TCL Pesticides	4°C	4	Glass	8 oz. wide-mouth clear w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-04-120106	11:15	SW-846 6010B or 6020	JAX47-SB091	SO	Arsenic	None	3	Glass	4 oz. wide-mouth amber w/Teflon cap	Run MS/MSD
12/01/2006	JAX47-SB091-06-120106	11:22	SW-846 6010B or 6020	JAX47-SB091	SO	Arsenic	None	1	Glass	4 oz. wide-mouth amber w/Teflon cap	
12/01/2006	JAX47-SB091-06-120106	11:22	SW-846 8081A	JAX47-SB091	SO	TCL Pesticides	4°C	1	Glass	8 oz. wide-mouth clear w/Teflon cap	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Chuck Metz	12/01/2006	15:50	Hand Deliver	12/01/2006	16:50
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
				12/1/06	16:50
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
JAX-47-937MW18D-113006 changed to JAX47-937MW18D-113006, Comments:
JAX-47-937MW18S-113006 changed to JAX47-937MW18S-113006, Comments:
JAX47-937-MW02S-11302006 changed to JAX47-937MW2S-113006, Comments:
JAX47-937-MW06D-11302006 changed to JAX47-937MW6D-113006

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-013

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Water* ***Instrument:*** *JMICP1*

Analyte	MDL	MRL	Units
Arsenic	0.004	0.010	mg/L

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-013

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Soil* ***Instrument:*** *JMICP1*

Analyte	MDL	MRL	Units
Arsenic	0.2	0.5	mg/kg

Sample calc
JAX47-SB091-06-120106

rep result 3.1 mg/kg

$$\left(0.0529\right)\left(\frac{50}{1}\right)\left(\frac{1}{.840}\right) = 3.149 \text{ mg/kg}$$

Sample JAX47-SB091-06-120106

Y 324.228R	253,314.9	104	0.4	%			%	0.39 %
Y361.105A	1,576,792.1	105	1.0	%			%	0.93 %
Ag 338.289	-1,492.6	-0.0093	0.00047	mg/L	-0.0093	0.00047	mg/L	5.09 %
Ag 328.068	-5,113.4	-0.0098	0.00022	mg/L	-0.0098	0.00022	mg/L	2.19 %
Al 308.215	311,474.4	108	3.9	mg/L	108	3.9	mg/L	3.60 %
As 188.979	175.2	0.0529	0.00155	mg/L	0.0529	0.00155	mg/L	2.93 %
Ba 233.527	45,759.4	0.2087	0.00255	mg/L	0.2087	0.00255	mg/L	1.22 %
Be 313.107	11,850.7	0.0015	0.00004	mg/L	0.0015	0.00004	mg/L	2.45 %
B 208.959	-307.8	-0.0133	0.00020	mg/L	-0.0133	0.00020	mg/L	1.48 %
Ca 317.933	1,014,424.5	3.592	0.0041	mg/L	3.592	0.0041	mg/L	0.11 %
Ca Radial	109,528.9	3.573	0.1352	mg/L	3.573	0.1352	mg/L	3.78 %
Cd 226.502	2,960.8	0.0031	0.00070	mg/L	0.0031	0.00070	mg/L	22.48 %
Co 228.616	269.8	0.0032	0.00018	mg/L	0.0032	0.00018	mg/L	5.66 %
Cr 267.716	34,904.6	0.1896	0.00233	mg/L	0.1896	0.00233	mg/L	1.23 %
Cu 324.754	1,185.8	0.0026	0.00076	mg/L	0.0026	0.00076	mg/L	29.08 %
Fe 273.955	6,260,469.4	144.7	0.18	mg/L	144.7	0.18	mg/L	0.13 %
Fe Radial	401,209.8	146	5.3	mg/L	146	5.3	mg/L	3.63 %
K 766.491R	6,960.4	1.44	0.041	mg/L	1.44	0.041	mg/L	2.88 %
Li 670.781R	3,276.3	0.019	0.0011	mg/L	0.019	0.0011	mg/L	5.85 %
Mg 279.079R	3,406.8	1.43	0.019	mg/L	1.43	0.019	mg/L	1.33 %
Mn 257.610	19,929.0	0.0174	0.00022	mg/L	0.0174	0.00022	mg/L	1.27 %
Mo 202.030	268.0	0.0095	0.00042	mg/L	0.0095	0.00042	mg/L	4.46 %
Na 589.592R	2,930.7	0.204	0.0062	mg/L	0.204	0.0062	mg/L	3.06 %

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville		SDG:	BR006-013	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	6L14021-BLK1	File ID:	122006a-032
Prepared:	12/14/06 15:03	Preparation:	EPA 3050B	Initial/Final:	1 g / 50 mL
Analyzed:	12/20/06 12:49	Instrument:	JMICP1		
Batch:	6L14021	Sequence:	BA00109	Calibration:	0612014

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7440-38-2	Arsenic	0.5	U

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00109
Calibration: 0612014

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00109-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
6L14021-BLK1	Arsenic	0.161	0.5	mg/kg wet		EPA 6010B
BA00109-CCB1	Arsenic	0.000823	0.01	mg/L		EPA 6010B
BA00109-CCB2	Arsenic	-0.000139	0.01	mg/L		EPA 6010B

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-013

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic	0.004	0.010	mg/L

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-013
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00157
Calibration: 0701006

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00157-ICB1	Arsenic	0.00	0.010	mg/L		EPA 6010B
7A10025-BLK1	Arsenic	0.000726	0.010	mg/L		EPA 6010B
BA00157-CCB1	Arsenic	0.00160	0.010	mg/L		EPA 6010B
BA00157-CCB2	Arsenic	0.000209	0.010	mg/L		EPA 6010B

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MARK PETERSON** **DATE:** **MARCH 6, 2007**

FROM: **PRESTON SMITH** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/SVOC/PESTICIDES**
CTO 047, NAS JACKSONVILLE
SDG BR006-014

SAMPLES: 16/Aqueous

JAX47-937MW4S-120106	JAX47-MW11D-120106
JAX47-MW11S-120106	JAX47-MW14D-120106
JAX47-MW16D-120506	JAX47-MW16S-120506
JAX47-MW17D-120506	JAX47-MW17S-120506
JAX47-MW19S-120506	JAX47-MW23S-120506
JAX47-MW24D-120506	JAX47-MW12S-120806
JAX47-MW14S-120806	JAX47-MW25S-120806
JAX47-MW26S-120806	JAX47-MW28S-120806

OVERVIEW

The sample set for CTO 047, NAS Jacksonville, SDG BR006-014 consists of sixteen (16) environmental aqueous samples. All above aqueous samples were analyzed as indicated above.

The samples were collected by TetraTech NUS on December 1, 5, 8, 2006 and analyzed by Environmental Conservation Laboratories, Inc. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C and 8081A analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS Tuning
• Initial and continuing calibration
• Blank results
• Surrogate spike recoveries
* • Internal standard recoveries
• Blank Spike/Blank Spike Duplicate Results
• Matrix Spike/Matrix Spike Duplicate Results
* • Detection Limits
• Compound Quantitation
* • Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Volatiles

The laboratory reported down to Reporting Limits (RL) on all Form Is for all compounds instead of to Method Detection Limits (MDLs). However, MDLs were included in the database for all compounds and these limits were used for validation.

The initial calibration %RSD was greater than the 30% QC limit for methyl cyclohexane. Positive results were qualified estimated (J) in samples JAX47-MW11S-120106 and JAX47-MW25S-120806. Nondetect results were qualified estimated (UJ) in all other samples.

The continuing calibration performed on 12/08/06 at 10:04 on instrument JVGCMS1 yielded a %D that exceeded the 25% quality control criterion for tetrachloroethene. Positive results were qualified estimated (J) in the affected samples. Nondetect results were qualified estimated (UJ) in the affected samples.

The continuing calibration performed on 12/11/06 at 16:53 on instrument JVGCMS1 yielded a %D that exceeded the 25% quality control criterion for dichlorofluoromethane, acetone, carbon disulfide, and tetrachloroethene. The positive result for tetrachloroethene in sample JAX47-MW17S-120506 was qualified estimated (J). Nondetect results were qualified estimated (UJ) in the aforementioned sample for the other noncompliant compounds.

The continuing calibration performed on 12/12/06 at 11:00 on instrument JVGCMS1 yielded a %D that exceeded the 25% quality control criterion for dichlorofluoromethane, acetone, carbon disulfide, 1,1-dichloroethane, 2-butanone, chloroform, 1,1,1-trichloroethene, 1,2-dichloroethane, tetrachloroethene and 1,2,4-trichlorobenzene. Positive results were qualified estimated (J) in the affected samples. Nondetect results were qualified estimated (UJ) in the affected samples.

The following compounds were detected in the method blanks at the following maximum concentration:

Compound	Maximum Concentration	Action Level
Acetone	2.28 ug/L	22.8 ug/L
1,2,4-trichlorobenzene	0.210 ug/L	1.05 ug/L

An action level of 10X the maximum contaminant concentration was established to evaluate blank contamination for these compounds for acetone and 5X the maximum contaminant concentration for 1,2,4-trichlorobenzene. Positive results were qualified as indicated above.

The LCS sample 6L12026-BS1 had a %R for bromodichloromethane that was below the QC limit. No positive results were reported for this compound. Nondetect results were qualified estimated (UJ) for the affected samples.

Semivolatiles

The laboratory reported down to Reporting Limits (RL) on all Form Is for all compounds instead of to Method Detection Limits (MDLs). However, MDLs were included in the database for all compounds and these limits were used for validation.

The initial calibration %RSD was greater than the 30% QC limit for pentachlorophenol. The positive result was qualified estimated (J) in sample JAX47-937MW4S-120106. Nondetect results were qualified estimated (UJ) in all other samples.

The continuing calibration performed on 12/17/06 at 13:47 on instrument JVGCMS1 yielded a %D that exceeded the 25% quality control criterion for 3-nitroaniline, carbazole and N-nitrosodiphenylamine. No positive results were reported for these compounds in the affected samples. Nondetect results were qualified estimated (UJ) in the affected samples.

The continuing calibration performed on 12/18/06 at 17:53 on instrument JVGCMS1 yielded a %D that exceeded the 25% quality control criterion for 4-chloroaniline, 3-nitroaniline, 4-nitroaniline, 2,4-dinitrophenol, 2-methyl-4,6-dinitrophenol and carbazole. No positive results were reported for these compounds in the affected samples. Nondetect results were qualified estimated (UJ) in the affected samples.

The continuing calibration performed on 12/19/06 at 11:18 on instrument JVGCMS1 yielded a %D that exceeded the 25% quality control criterion for 4-chloroaniline, 3-nitroaniline, 4-nitroaniline, 2-methyl-4,6-dinitrophenol and carbazole. These compounds were not reported in the affected samples.

Sample JAX-MW11S-120106 had a 10X dilution factor applied for Napthalene and 2-methylnapthalene.

The LCS sample 6L12004-BS1 had a %R for 4-chloroaniline, 3-nitroaniline, 4-nitroaniline, N-nitrosodiphenylamine and carbazole that exceeded the QC limit. No actions were taken because no positive results were reported for these compounds.

The LCS sample 6L08004-BS1 had a %R for 3-nitroaniline, 4-nitroaniline, N-nitrosodiphenylamine and carbazole that exceeded the QC limit. No actions were taken because no positive results were reported for these compounds.

Surrogate recovery was high for 2,4,6-tribromophenol in samples JAX47-MW16D-120506, JAX47-MW17D-120506, JAX47-MW14S-120806 and JAX47-MW12S-120806 and for nitrobenzene-d5 in sample JAX47-MW17D-120506. No action was taken for these noncompliances because no positive results were reported in the affected samples.

Pesticides

The laboratory reported down to Reporting Limits (RL) on all Form Is for all compounds instead of to Method Detection Limits (MDLs). However, MDLs were included in the database for all compounds and these limits were used for validation.

The following compound was detected in the method blank prepared on 12/08/06:

Compound	Maximum Concentration	Action Level
4,4'DDT	0.002 ug/L	0.010 ug/L

An action level of 5X the maximum contaminant concentration was established to evaluate blank contamination for the above compound Sample aliquot and dilution factors were taken into consideration when applying the blank action level. Positive results less than the blank action level were qualified as nondeteced. The positive results were qualified nondetect (U) for 4,4'DDT in samples JAX47-MW11D-120106 and JAX47-937MW11S-120106.

The LCS sample 6L11022-BS1 had a %R for alpha-chlordane that was below the QC limit on column 1. No action was taken because the noncompliance only occurred on one column. Additionally, the %R for

endrin ketone was below the QC limit on column 1 and column 2. Positive results in samples JAX47-MW14S-120806, JAX47-MW12S-120806 and JAX47-MW17S-120506 were qualified estimated (J). Nondetect results for endrin ketone in samples associated with this batch were qualified estimated (UJ).

The dual column confirmation %D was greater than the 25% QC limit for at least one compound analyzed on 11 out of the 16 samples. The affected results were qualified as estimated (J) for this noncompliance.

The continuing calibration performed on 12/12/06 at 21:31 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor on column 1. No action was taken for this noncompliance because the %D was only exceeded for one column.

The continuing calibration performed on 12/13/06 at 02:43 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for alpha-BHC and methoxychlor on column 1. No action was taken for these noncompliances because the %D was only exceeded for one column.

The continuing calibration performed on 12/13/06 at 07:03 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor on column 1 and column 2. Positive and nondetect results for methoxychlor were qualified estimated (J)/(UJ) in associated samples for this noncompliance.

The continuing calibration performed on 12/13/06 at 13:19 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor on column 1 and column 2. Positive and nondetect results for methoxychlor were qualified estimated (J)/(UJ) in associated samples for this noncompliance.

The continuing calibration performed on 12/13/06 at 19:59 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for 4,4'DDT on column 1. The positive result for 4,4'DDD on column 1 in sample JAX47-MW17S-120506 was qualified estimated (J) for this noncompliance.

The continuing calibration performed on 12/14/06 at 20:25 and 22:09 on instrument JSVGCECD2 yielded a %D that exceeded the 15% quality control criterion for methoxychlor on column 1 and column 2. No action was taken for this noncompliance because methoxychlor was not analyzed for in the associated samples.

The surrogate recovery (%R) for tetrachloro-m-xylene (TCX) was high for sample JAX47-MW14S-120806. The surrogate recovery (%R) for decachlorobiphenyl (DCB) was high for samples JAX47-MW25S-120806, JAX47-MW14S-120806, JAX47-MW12S-120806 and JAX47-MW28S-120806. Positive results were qualified estimated (J) in the associated samples.

The calibration range for sample JAX47-MW17S-120506 was exceeded on 12/13/06 at 18:41 on instrument JSVGCECD2 for 4,4'-DDD. The result was qualified as estimated, (J) for this noncompliance.

Alpha-BHC in sample JAX47-MW17S-120506 was not detected on both columns and was qualified nondetected and estimated (UJ) for this noncompliance.

In the matrix spike MW-1, the %R was marginally below the lower QC limit for both the MS and MSD samples for endrin ketone. No action was taken for this noncompliance.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several volatile, semivolatile, and pesticide calibration noncompliances were noted. Dual column confirmation noncompliance. Surrogate noncompliances were noted in the

semivolatile and pesticide fractions. Blank contamination was noted in all fractions. Form Is did not contain MDLs. Several pesticide dual column confirmation noncompliances were noted.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and Department of Defense document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM for guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Preston R Smith
Environmental Scientist

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-937MW4S-120106	nsample	JAX47-937MW4S-120106	nsample	JAX47-MW11D-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610566-01	lab_id	B610566-01	lab_id	B610566-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.7	J	P
1,2,4-TRICHLOROBENZENE	3.4		
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	5.6	U	A
BENZENE	3.2		
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.5	J	P
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	586		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	9.9		
ISOPROPYLBENZENE	1.1		
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	4	J	C
TOLUENE	0.6	J	P
TOTAL XYLENES	25.4		
TRANS-1,2-DICHLOROETHENE	4.5		
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	7.7		
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	1.6		

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2.3	U	A
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.5	J	P
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW11D-120106
samp_date	12/1/2006
lab_id	B610566-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	JAX47-MW11S-120106
samp_date	12/1/2006
lab_id	B610566-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.6	J	P
1,2,4-TRICHLOROBENZENE	1.8		
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	1.8		
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.6	J	P
1,4-DICHLOROBENZENE	5.6		
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	15.4	U	A
BENZENE	2.5		
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	12.7		
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	1.2		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	38.3		

nsample	JAX47-MW11S-120106
samp_date	12/1/2006
lab_id	B610566-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	17.4		
ISOPROPYLBENZENE	9		
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	22.7	J	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	17.4		
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	4.5		
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW12S-120806	nsample	JAX47-MW12S-120806	nsample	JAX47-MW14D-120106
samp_date	12/8/2006	samp_date	12/8/2006	samp_date	12/1/2006
lab_id	B610655-01	lab_id	B610655-01	lab_id	B610566-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.4	U	A
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	UJ	C
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	UJ	E
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	UJ	C
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	UJ	C
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.9	J	P
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.3	J	P
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	12.4		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW14D-120106
samp_date	12/1/2006
lab_id	B610566-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.4	J	P
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	1.3	J	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.6	J	P
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	J	P

nsample	JAX47-MW14S-120806
samp_date	12/8/2006
lab_id	B610655-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	UJ	C
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	UJ	E
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	UJ	C
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

nsample	JAX47-MW14S-120806
samp_date	12/8/2006
lab_id	B610655-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	UJ	C
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW16D-120506	nsample	JAX47-MW16D-120506	nsample	JAX47-MW16S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-01	lab_id	B610567-01	lab_id	B610567-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.3	J	P
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	4.7		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	1.3		
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW16S-120506
samp_date	12/5/2006
lab_id	B610567-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	JAX47-MW17D-120506
samp_date	12/5/2006
lab_id	B610567-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	8.4		
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.4	J	P
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	328		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

nsample	JAX47-MW17D-120506
samp_date	12/5/2006
lab_id	B610567-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.8	J	P
ETHYLBENZENE	4		
ISOPROPYLBENZENE	4.6		
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	1.4		
TOTAL XYLENES	41.5		
TRANS-1,2-DICHLOROETHENE	0.6	J	P
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	1		

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW17S-120506	nsample	JAX47-MW17S-120506	nsample	JAX47-MW19S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-04	lab_id	B610567-04	lab_id	B610567-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	1.8		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	3.6		
ISOPROPYLBENZENE	3.8		
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	2.8		
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW19S-120506	nsample	JAX47-MW23S-120506	nsample	JAX47-MW23S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-05	lab_id	B610567-06	lab_id	B610567-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	JAX47-MW24D-120506	nsample	JAX47-MW24D-120506	nsample	JAX47-MW25S-120806
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/8/2006
lab_id	B610567-07	lab_id	B610567-07	lab_id	B610655-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	1		
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	23.1		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	1.7		
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.4	J	P
1,2,4-TRICHLOROBENZENE	0.9	U	A
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.6	J	P
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	3.2		
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	5.5	U	A
BENZENE	0.5	J	P
BROMODICHLOROMETHANE	0.2	UJ	E
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	UJ	C
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	2.7		
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW25S-120806
samp_date	12/8/2006
lab_id	B610655-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	UJ	C
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	2.5		
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.7	J	CP
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.6	J	P
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	J	P
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	JAX47-MW26S-120806
samp_date	12/8/2006
lab_id	B610655-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	UJ	C
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	UJ	E
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	UJ	C
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

nsample	JAX47-MW26S-120806
samp_date	12/8/2006
lab_id	B610655-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	UJ	C
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW28S-120806	nsample	JAX47-MW28S-120806
samp_date	12/8/2006	samp_date	12/8/2006
lab_id	B610655-05	lab_id	B610655-05
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.6	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	5.4	U	A
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	UJ	E
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	U	
CARBON DISULFIDE	0.9	UJ	C
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.4	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	UJ	C
DIETHYL ETHER	0.5	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.6	UJ	C
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	UJ	C
TOLUENE	0.2	U	
TOTAL XYLENES	0.3	U	
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-937MW4S-120106	nsample	JAX47-937MW4S-120106	nsample	JAX47-937MW4S-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610566-01	lab_id	B610566-01	lab_id	B610566-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	87		
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	12	J	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW11D-120106	nsample	JAX47-MW11D-120106	nsample	JAX47-MW11D-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610566-02	lab_id	B610566-02	lab_id	B610566-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW11S-120106	nsample	JAX47-MW11S-120106	nsample	JAX47-MW11S-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610566-03	lab_id	B610566-03	lab_id	B610566-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	8	J	P
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	103		
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	194		
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW12S-120806
samp_date	12/8/2006
lab_id	B610655-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

nsample	JAX47-MW12S-120806
samp_date	12/8/2006
lab_id	B610655-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

nsample	JAX47-MW12S-120806
samp_date	12/8/2006
lab_id	B610655-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW14D-120106	nsample	JAX47-MW14D-120106	nsample	JAX47-MW14D-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610566-04	lab_id	B610566-04	lab_id	B610566-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	UJ	C
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	UJ	C
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	UJ	C
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	U	
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW14S-120806	nsample	JAX47-MW14S-120806	nsample	JAX47-MW14S-120806
samp_date	12/8/2006	samp_date	12/8/2006	samp_date	12/8/2006
lab_id	B610655-02	lab_id	B610655-02	lab_id	B610655-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW16D-120506	nsample	JAX47-MW16D-120506	nsample	JAX47-MW16D-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-01	lab_id	B610567-01	lab_id	B610567-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW16S-120506	nsample	JAX47-MW16S-120506	nsample	JAX47-MW16S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-02	lab_id	B610567-02	lab_id	B610567-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW17D-120506	nsample	JAX47-MW17D-120506	nsample	JAX47-MW17D-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-03	lab_id	B610567-03	lab_id	B610567-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW17S-120506	nsample	JAX47-MW17S-120506	nsample	JAX47-MW17S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-04	lab_id	B610567-04	lab_id	B610567-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW19S-120506	nsample	JAX47-MW19S-120506	nsample	JAX47-MW19S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-05	lab_id	B610567-05	lab_id	B610567-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW23S-120506	nsample	JAX47-MW23S-120506	nsample	JAX47-MW23S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-06	lab_id	B610567-06	lab_id	B610567-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW24D-120506	nsample	JAX47-MW24D-120506	nsample	JAX47-MW24D-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-07	lab_id	B610567-07	lab_id	B610567-07
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW25S-120806
samp_date	12/8/2006
lab_id	B610655-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	5	J	P
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	25		
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

nsample	JAX47-MW25S-120806
samp_date	12/8/2006
lab_id	B610655-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	30		
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

nsample	JAX47-MW25S-120806
samp_date	12/8/2006
lab_id	B610655-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW26S-120806	nsample	JAX47-MW26S-120806	nsample	JAX47-MW26S-120806
samp_date	12/8/2006	samp_date	12/8/2006	samp_date	12/8/2006
lab_id	B610655-04	lab_id	B610655-04	lab_id	B610655-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW28S-120806	nsample	JAX47-MW28S-120806	nsample	JAX47-MW28S-120806
samp_date	12/8/2006	samp_date	12/8/2006	samp_date	12/8/2006
lab_id	B610655-05	lab_id	B610655-05	lab_id	B610655-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	3	U	
2,4,5-TRICHLOROPHENOL	2	U	
2,4,6-TRICHLOROPHENOL	2	U	
2,4-DICHLOROPHENOL	2	U	
2,4-DIMETHYLPHENOL	2	U	
2,4-DINITROPHENOL	1	U	
2,4-DINITROTOLUENE	2	U	
2,6-DINITROTOLUENE	2	U	
2-CHLORONAPHTHALENE	2	U	
2-CHLOROPHENOL	3	U	
2-METHYLNAPHTHALENE	2	U	
2-METHYLPHENOL	2	U	
2-NITROANILINE	2	U	
2-NITROPHENOL	3	U	
3&4-METHYLPHENOL	2	U	
3,3'-DICHLOROBENZIDINE	2	U	
3-NITROANILINE	0.9	UJ	C
4,6-DINITRO-2-METHYLPHENOL	1	U	
4-BROMOPHENYL PHENYL ETHER	2	U	
4-CHLORO-3-METHYLPHENOL	1	U	
4-CHLOROANILINE	2	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	
4-NITROANILINE	2	U	
4-NITROPHENOL	1	U	
ACENAPHTHENE	2	U	
ACENAPHTHYLENE	2	U	
ACETOPHENONE	2	U	
ANTHRACENE	1	U	
ATRAZINE	1	U	
BENZALDEHYDE	3	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	
BENZO(G,H,I)PERYLENE	3	U	
BENZO(K)FLUORANTHENE	1	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	
BIS(2-CHLOROETHYL)ETHER	3	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	2	U	
CARBAZOLE	1	UJ	C
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	3	U	
DIBENZOFURAN	2	U	
DIETHYL PHTHALATE	2	U	
DIMETHYL PHTHALATE	1	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	2	U	
FLUORANTHENE	2	U	
FLUORENE	1	U	
HEXACHLOROBENZENE	2	U	
HEXACHLOROBUTADIENE	3	U	
HEXACHLOROCYCLOPENTADIENE	2	U	
HEXACHLOROETHANE	3	U	
INDENO(1,2,3-CD)PYRENE	3	U	
ISOPHORONE	3	U	
NAPHTHALENE	3	U	
NITROBENZENE	4	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	
N-NITROSODIPHENYLAMINE	2	UJ	C
PENTACHLOROPHENOL	1	UJ	C
PHENANTHRENE	1	U	
PHENOL	2	U	

Parameter	Result	Val Qual	Qual Code
PYRENE	2	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-937MW4S-120106	nsample	JAX47-MW11D-120106	nsample	JAX47-MW11S-120106
samp_date	12/1/2006	samp_date	12/1/2006	samp_date	12/1/2006
lab_id	B610566-01RE1	lab_id	B610566-02	lab_id	B610566-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	8.2		
4,4'-DDE	0.056		
4,4'-DDT	0.002	U	
ALDRIN	2.6	J	U
ALPHA-BHC	0.45		
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	3.9	J	U
DELTA-BHC	0.64		
DIELDRIN	0.19	J	U
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.009	J	P
ENDRIN	0.008	J	PU
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.18		
GAMMA-BHC (LINDANE)	0.66		
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.02	J	PU
METHOXYCHLOR	0.003	UJ	C
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.003	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.01	J	PU
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	UJ	C
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.007	J	PU
ALDRIN	0.11	J	U
ALPHA-BHC	9.3		
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	1.2		
DELTA-BHC	8.3		
DIELDRIN	0.033	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.023	J	PU
ENDOSULFAN SULFATE	0.007	J	PU
ENDRIN	0.021	J	P
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	15		
GAMMA-CHLORDANE	0.035	J	P
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	1.1	J	CU
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW12S-120806	nsample	JAX47-MW14D-120106	nsample	JAX47-MW14S-120806
samp_date	12/8/2006	samp_date	12/1/2006	samp_date	12/8/2006
lab_id	B610655-01	lab_id	B610566-04	lab_id	B610655-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.056	J	RPU
4,4'-DDT	0.002	U	A
ALDRIN	0.002	U	
ALPHA-BHC	1.1	J	RU
ALPHA-CHLORDANE	0.44	J	RU
BETA-BHC	0.7	J	R
DELTA-BHC	0.015	J	PRU
DIELDRIN	0.15	J	R
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.032	J	PRU
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.027	J	ERP
GAMMA-BHC (LINDANE)	0.11	J	R
GAMMA-CHLORDANE	0.016	J	PRU
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.081	J	RU
METHOXYCHLOR	0.003	UJ	C
TOXAPHENE	0.05	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.003	J	P
4,4'-DDT	0.003	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.003	J	P
ALPHA-CHLORDANE	0.002	J	PU
BETA-BHC	0.002	U	
DELTA-BHC	0.026	J	PU
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.019	J	PU
GAMMA-BHC (LINDANE)	0.002	J	PU
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.002	J	PU
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	UJ	C
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	A
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.055	J	RU
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.003	J	RUP
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.01	J	REP
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.017	J	RP
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.62	J	R
METHOXYCHLOR	0.003	UJ	C
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW16D-120506	nsample	JAX47-MW16S-120506	nsample	JAX47-MW17D-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-01	lab_id	B610567-02	lab_id	B610567-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.003	J	PU
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.007	J	PU
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	A
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.094		
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.039	J	P
BETA-BHC	0.089		
DELTA-BHC	0.031	J	P
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.005	J	P
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.042	J	P
HEPTACHLOR	0.22		
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW17S-120506	nsample	JAX47-MW19S-120506	nsample	JAX47-MW23S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-04RE1	lab_id	B610567-05	lab_id	B610567-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	25	J	CLU
4,4'-DDE	0.036	J	P
4,4'-DDT	0.015	J	PU
ALDRIN	0.01	J	PU
ALPHA-BHC	0.002	UJ	Q
ALPHA-CHLORDANE	1.8		
BETA-BHC	0.002	U	
DELTA-BHC	0.032	J	P
DIELDRIN	0.036	J	PU
ENDOSULFAN I	0.077		
ENDOSULFAN II	0.037	J	PU
ENDOSULFAN SULFATE	0.017	J	PU
ENDRIN	0.005	J	PU
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.009	J	EP
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	1.1		
HEPTACHLOR	0.03	J	PU
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	A
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	A
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW24D-120506	nsample	JAX47-MW25S-120806	nsample	JAX47-MW26S-120806
samp_date	12/5/2006	samp_date	12/8/2006	samp_date	12/8/2006
lab_id	B610567-07	lab_id	B610655-03	lab_id	B610655-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	A
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.011	J	P
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	UJ	C
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.003	U	A
ALDRIN	0.002	U	
ALPHA-BHC	3.4		
ALPHA-CHLORDANE	0.032	J	PRU
BETA-BHC	1.8	J	R
DELTA-BHC	3.6		
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.012	J	PRU
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.003	UJ	Q
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	4.4		
GAMMA-CHLORDANE	0.036	J	PRU
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.023	J	PRU
METHOXYCHLOR	0.014	J	CPR
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.01	J	P
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	UJ	C
TOXAPHENE	0.05	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW28S-120806
samp_date	12/8/2006
lab_id	B610655-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.003	J	PRU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	UJ	E
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	UJ	C
TOXAPHENE	0.05	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW11D-120106

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610566-02 | File ID: 7LD032.D

Sampled: 12/01/06 16:15 | Prepared: 12/08/06 09:00 | Analyzed: 12/09/06 01:25

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	2.3	J
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.5	J
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U
127-18-4	Tetrachloroethene	1	1.0	U
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW11D-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610566-02	File ID:	7LD032.D
Sampled:	12/01/06 16:15	Prepared:	12/08/06 09:00	Analyzed:	12/09/06 01:25
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.4	93	85 - 115	
Toluene-d8	50.0	48.0	96	85 - 120	
4-Bromofluorobenzene	50.0	43.6	87	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	325884	11.42	324835	11.41	
1,4-Difluorobenzene	696656	12.08	701153	12.07	
Chlorobenzene-d5	617953	15.26	623095	15.26	
1,4-Dichlorobenzene-d4	238374	17.45	263931	17.44	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-03	File ID:	7LD016.D
Sampled:	12/01/06 15:00	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 17:15
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U UJ for C
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	0.6	J J for C
67-64-1	Acetone	1	15.4	J for C
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.2	
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U UJ for C
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	2.5	
79-01-6	Trichloroethene	1	4.5	
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U UJ
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	38.3	
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	22.7	J for C
127-18-4	Tetrachloroethene	1	1.0	U UJ for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	12.7	
100-41-4	Ethylbenzene	1	17.4	
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	9.0	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-03	File ID:	7LD016.D
Sampled:	12/01/06 15:00	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 17:15
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L08023 Sequence: BA00115 Calibration: 0612011 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	0.6	J
106-46-7	1,4-Dichlorobenzene	1	5.6	
95-50-1	1,2-Dichlorobenzene	1	1.8	
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.8	J for C
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	17.4	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.5	93	85 - 115	
Toluene-d8	50.0	48.9	98	85 - 120	
4-Bromofluorobenzene	50.0	43.1	86	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	310548	11.42	326390	11.41	
1,4-Difluorobenzene	673570	12.08	711773	12.07	
Chlorobenzene-d5	604063	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	244238	17.44	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW14D-120106

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610566-04 | File ID: 7LD017.D

Sampled: 12/01/06 15:00 | Prepared: 12/08/06 09:00 | Analyzed: 12/08/06 17:45

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	UJ for C
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	0.4	J	for P
74-83-9	Bromomethane	1	1.0	U	UJ for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	UJ for C
67-64-1	Acetone	1	5.0	U	UJ for C
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
156-59-2	cis-1,2-Dichloroethene	1	12.4		
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U	UJ for C
107-06-2	1,2-Dichloroethane	1	1.0	U	UJ for C
71-43-2	Benzene	1	0.9	J	for P
79-01-6	Trichloroethene	1	0.6	J	for P
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	[redacted]
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.0	U	
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	U	UJ for C
127-18-4	Tetrachloroethene	1	1.3		J for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	0.3	J	for P
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	U	
98-82-8	Isopropylbenzene	1	0.4	J	for P

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW14D-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-04	File ID:	7LD017.D
Sampled:	12/01/06 15:00	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 17:45
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.7	93	85 - 115	
Toluene-d8	50.0	48.9	98	85 - 120	
4-Bromofluorobenzene	50.0	45.7	91	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	333083	11.42	326390	11.41	
1,4-Difluorobenzene	719391	12.08	711773	12.07	
Chlorobenzene-d5	635749	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	258414	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW4S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-01	File ID:	7LD014.D
Sampled:	12/01/06 11:30	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 16:13
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.6	
74-83-9	Bromomethane	1	1.0	U UJ for C
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	0.7	J J for C
67-64-1	Acetone	1	5.6	J for C
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	4.5	
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U UJ for C
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	3.2	
79-01-6	Trichloroethene	1	7.7	
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	0.6	J for P
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for C
127-18-4	Tetrachloroethene	1	4.0	J for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	0.5	J for P
100-41-4	Ethylbenzene	1	9.9	
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.1	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW4S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-01	File ID:	7LD014.D
Sampled:	12/01/06 11:30	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 16:13
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	3.4	J for L
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	25.4	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.4	95	85 - 115	
Toluene-d8	50.0	48.2	96	85 - 120	
4-Bromofluorobenzene	50.0	43.4	87	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	283214	11.41	326390	11.41	
1,4-Difluorobenzene	602672	12.07	711773	12.07	
Chlorobenzene-d5	569140	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	225247	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-937MW4S-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610566-01RE1	File ID:	7LD031.D
Sampled:	12/01/06 11:30	Prepared:	12/08/06 09:00	Analyzed:	12/09/06 00:55
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	~~5 mL / 5 mL~~
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethene	10	586	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.6	93	85 - 115	
Toluene-d8	50.0	48.5	97	85 - 120	
4-Bromofluorobenzene	50.0	44.7	89	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	322836	11.42	324835	11.41	
1,4-Difluorobenzene	693839	12.08	701153	12.07	
Chlorobenzene-d5	613081	15.26	623095	15.26	
1,4-Dichlorobenzene-d4	245121	17.45	263931	17.44	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW12S-120806

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610655-01	File ID:	7LG010.D
Sampled:	12/08/06 13:32	Prepared:	12/12/06 09:00	Analyzed:	12/12/06 15:37
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U UJ for C
75-15-0	Carbon disulfide	1	5.0	U UJ for C
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U UJ for C
78-93-3	2-Butanone	1	5.0	U UJ for C
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U UJ for C
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U UJ for E
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for C
127-18-4	Tetrachloroethene	1	1.0	U UJ for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW12S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-01	File ID:	7LG010.D
Sampled:	12/08/06 13:32	Prepared:	12/12/06 09:00	Analyzed:	12/12/06 15:37
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.4	J
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.5	93	85 - 115	
Toluene-d8	50.0	46.7	93	85 - 120	
4-Bromofluorobenzene	50.0	43.7	87	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	355986	11.43	421640	11.43	
1,4-Difluorobenzene	777249	12.09	856095	12.09	
Chlorobenzene-d5	681714	15.28	776355	15.27	
1,4-Dichlorobenzene-d4	268167	17.46	311791	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW14S-120806

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610655-02 | File ID: 7LG011.D

Sampled: 12/08/06 09:54 | Prepared: 12/12/06 09:00 | Analyzed: 12/12/06 16:08

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L12026 | Sequence: BA00118 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	UJ for C
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0	U	
74-83-9	Bromomethane	1	1.0	U	
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	
67-64-1	Acetone	1	5.0	U	UJ for C
75-15-0	Carbon disulfide	1	5.0	U	UJ for C
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	
75-34-3	1,1-Dichloroethane	1	1.0	U	UJ for C
78-93-3	2-Butanone	1	5.0	U	UJ for C
156-59-2	cis-1,2-Dichloroethene	1	1.0	U	
67-66-3	Chloroform	1	1.0	U	UJ for C
71-55-6	1,1,1-Trichloroethane	1	1.0	U	UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U	
107-06-2	1,2-Dichloroethane	1	1.0	U	UJ for C
71-43-2	Benzene	1	1.0	U	
79-01-6	Trichloroethene	1	1.0	U	
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	UJ for B
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.0	U	
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	U	UJ for C
127-18-4	Tetrachloroethene	1	1.0	U	UJ for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	1.0	U	
100-41-4	Ethylbenzene	1	1.0	U	
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	U	
98-82-8	Isopropylbenzene	1	1.0	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW14S-120806

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610655-02	File ID:	7LG011.D
Sampled:	12/08/06 09:54	Prepared:	12/12/06 09:00	Analyzed:	12/12/06 16:08
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U us for C
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.7	93	85 - 115	
Toluene-d8	50.0	48.4	97	85 - 120	
4-Bromofluorobenzene	50.0	42.4	85	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	351800	11.43	421640	11.43	
1,4-Difluorobenzene	742388	12.09	856095	12.09	
Chlorobenzene-d5	670674	15.28	776355	15.27	
1,4-Dichlorobenzene-d4	263961	17.46	311791	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW16D-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-01 | File ID: 7LD018.D

Sampled: 12/05/06 12:46 | Prepared: 12/08/06 09:00 | Analyzed: 12/08/06 18:16

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U UJ for C
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U UJ for C
67-64-1	Acetone	1	5.0	U UJ for C
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	4.7	
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U UJ for C
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	0.3	J for P
79-01-6	Trichloroethene	1	1.3	
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U [redacted]
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for C
127-18-4	Tetrachloroethene	1	1.0	U UJ for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW16D-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-01	File ID:	7LD018.D
Sampled:	12/05/06 12:46	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 18:16
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U 45 for C
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.2	92	85 - 115	
Toluene-d8	50.0	48.2	96	85 - 120	
4-Bromofluorobenzene	50.0	45.0	90	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	326736	11.41	326390	11.41	
1,4-Difluorobenzene	716290	12.07	711773	12.07	
Chlorobenzene-d5	631218	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	252134	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW16S-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-02	File ID:	7LD019.D
Sampled:	12/05/06 13:38	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 18:47
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U UJ for C
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U UJ for C
67-64-1	Acetone	1	5.0	U UJ for C
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U UJ for C
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U [redacted]
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for C
127-18-4	Tetrachloroethene	1	1.0	U UJ for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW16S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-02	File ID:	7LD019.D
Sampled:	12/05/06 13:38	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 18:47
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U UJ for C
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.1	94	85 - 115	
Toluene-d8	50.0	48.3	97	85 - 120	
4-Bromofluorobenzene	50.0	44.0	88	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	331194	11.42	326390	11.41	
1,4-Difluorobenzene	701356	12.08	711773	12.07	
Chlorobenzene-d5	625589	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	252970	17.44	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW17D-120506

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610567-03RE1 File ID: 7LF006.D

Sampled: 12/05/06 14:41 Prepared: 12/08/06 09:00 Analyzed: 12/11/06 18:56

Solids: Preparation: EPA 5030B_MS Initial/Final: ~~5 mL / 5 mL~~

Batch: 6L08023 Sequence: BA00115 Calibration: 0612011 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethene	5	328	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	44.5	89	85 - 115	
Toluene-d8	50.0	46.3	93	85 - 120	
4-Bromofluorobenzene	50.0	44.3	89	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	409508	11.43	440420	11.42	
1,4-Difluorobenzene	847933	12.08	903995	12.08	
Chlorobenzene-d5	752798	15.26	796147	15.26	
1,4-Dichlorobenzene-d4	305330	17.45	330071	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW17D-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-03 | File ID: 7LD020.D

Sampled: 12/05/06 14:41 | Prepared: 12/08/06 09:00 | Analyzed: 12/08/06 19:17

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
75-71-8	Dichlorodifluoromethane	1	1.0	U	UJ for C
74-87-3	Chloromethane	1	1.0	U	
75-01-4	Vinyl chloride	1	1.0		
74-83-9	Bromomethane	1	1.0	U	UJ for C
75-00-3	Chloroethane	1	1.0	U	
75-69-4	Trichlorofluoromethane	1	1.0	U	
75-35-4	1,1-Dichloroethene	1	1.0	U	UJ for C
67-64-1	Acetone	1	5.0	U	UJ for C
75-15-0	Carbon disulfide	1	5.0	U	
75-09-2	Methylene Chloride	1	2.0	U	
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U	
156-60-5	trans-1,2-Dichloroethene	1	0.6	J	for D
75-34-3	1,1-Dichloroethane	1	1.0	U	
78-93-3	2-Butanone	1	5.0	U	
67-66-3	Chloroform	1	1.0	U	
71-55-6	1,1,1-Trichloroethane	1	1.0	U	UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U	UJ for C
107-06-2	1,2-Dichloroethane	1	1.0	U	UJ for C
71-43-2	Benzene	1	8.4		
79-01-6	Trichloroethene	1	1.0	U	
78-87-5	1,2-Dichloropropane	1	1.0	U	
75-27-4	Bromodichloromethane	1	0.4	U	
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U	
108-10-1	4-Methyl-2-pentanone	1	5.0	U	
108-88-3	Toluene	1	1.4		
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U	
110-82-7	Cyclohexane	1	1.0	U	
79-00-5	1,1,2-Trichloroethane	1	1.0	U	
79-20-9	Methyl acetate	1	1.0	U	
108-87-2	Methyl cyclohexane	1	1.0	U	UJ for C
127-18-4	Tetrachloroethene	1	1.0	U	UJ for C
591-78-6	2-Hexanone	1	5.0	U	
124-48-1	Dibromochloromethane	1	0.2	U	
106-93-4	1,2-Dibromoethane	1	1.0	U	
108-90-7	Chlorobenzene	1	0.4	J	for P
100-41-4	Ethylbenzene	1	4.0		
100-42-5	Styrene	1	1.0	U	
75-25-2	Bromoform	1	1.0	U	
98-82-8	Isopropylbenzene	1	4.6		
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW17D-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-03 | File ID: 7LD020.D

Sampled: 12/05/06 14:41 | Prepared: 12/08/06 09:00 | Analyzed: 12/08/06 19:17

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U 45 for C for D
60-29-7	Diethyl ether	1	0.8	J
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	41.5	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.5	95	85 - 115	
Toluene-d8	50.0	48.5	97	85 - 120	
4-Bromofluorobenzene	50.0	43.3	87	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	320984	11.41	326390	11.41	
1,4-Difluorobenzene	699276	12.07	711773	12.07	
Chlorobenzene-d5	634274	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	250761	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW17S-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-04 | File ID: 7LF005.D

Sampled: 12/05/06 15:31 | Prepared: 12/08/06 09:00 | Analyzed: 12/11/06 18:25

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U UJ for C
75-15-0	Carbon disulfide	1	5.0	U UJ for C
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U UJ for C
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U UJ for C
78-93-3	2-Butanone	1	5.0	U UJ for C
156-59-2	cis-1,2-Dichloroethene	1	1.8	
67-66-3	Chloroform	1	1.0	U UJ for C
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for C
127-18-4	Tetrachloroethene	1	2.8	J for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	3.6	
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	3.8	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW17S-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-04	File ID:	7LF005.D
Sampled:	12/05/06 15:31	Prepared:	12/08/06 09:00	Analyzed:	12/11/06 18:25
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011	Instrument:	JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U UJ trc
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U UJ trc
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	45.5	91	85 - 115	
Toluene-d8	50.0	47.1	94	85 - 120	
4-Bromofluorobenzene	50.0	43.8	88	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	398922	11.42	440420	11.42	
1,4-Difluorobenzene	842264	12.08	903995	12.08	
Chlorobenzene-d5	754846	15.26	796147	15.26	
1,4-Dichlorobenzene-d4	309575	17.45	330071	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW19S-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-05 | File ID: 7LD022.D

Sampled: 12/05/06 16:17 | Prepared: 12/08/06 09:00 | Analyzed: 12/08/06 20:19

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U UJ for C
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U UJ for C
67-64-1	Acetone	1	5.0	U UJ for C
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U UJ for C
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for C
127-18-4	Tetrachloroethene	1	1.0	U UJ for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW19S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-05	File ID:	7LD022.D
Sampled:	12/05/06 16:17	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 20:19
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U US for C
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.7	93	85 - 115	
Toluene-d8	50.0	47.9	96	85 - 120	
4-Bromofluorobenzene	50.0	43.7	87	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	325701	11.41	326390	11.41	
1,4-Difluorobenzene	700943	12.07	711773	12.07	
Chlorobenzene-d5	643314	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	247031	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW23S-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-06 | File ID: 7LD023.D

Sampled: 12/05/06 10:46 | Prepared: 12/08/06 09:00 | Analyzed: 12/08/06 20:50

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for L
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U UJ for L
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U UJ for L
67-64-1	Acetone	1	5.0	U UJ for L
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for L
56-23-5	Carbon Tetrachloride	1	1.0	U UJ for L
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for L
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for L
127-18-4	Tetrachloroethene	1	1.0	U UJ for L
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW23S-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-06	File ID:	7LD023.D
Sampled:	12/05/06 10:46	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 20:50
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U UJ for L
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.6	93	85 - 115	
Toluene-d8	50.0	48.4	97	85 - 120	
4-Bromofluorobenzene	50.0	44.6	89	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	327101	11.42	326390	11.41	
1,4-Difluorobenzene	700488	12.08	711773	12.07	
Chlorobenzene-d5	619008	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	243816	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW24D-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-07 | File ID: 7LD024.D

Sampled: 12/05/06 11:39 | Prepared: 12/08/06 09:00 | Analyzed: 12/08/06 21:20

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L08023 | Sequence: BA00115 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U UJ for C
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U UJ for C
67-64-1	Acetone	1	5.0	U UJ for C
75-15-0	Carbon disulfide	1	5.0	U
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U
78-93-3	2-Butanone	1	5.0	U
156-59-2	cis-1,2-Dichloroethene	1	23.1	
67-66-3	Chloroform	1	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U UJ for C
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	1.0	
79-01-6	Trichloroethene	1	1.7	
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for C
127-18-4	Tetrachloroethene	1	1.0	U UJ for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW24D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-07	File ID:	7LD024.D
Sampled:	12/05/06 11:39	Prepared:	12/08/06 09:00	Analyzed:	12/08/06 21:20
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U 45 for C
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.5	93	85 - 115	
Toluene-d8	50.0	48.1	96	85 - 120	
4-Bromofluorobenzene	50.0	44.2	88	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	322788	11.41	326390	11.41	
1,4-Difluorobenzene	701198	12.07	711773	12.07	
Chlorobenzene-d5	629289	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	247566	17.45	262054	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW25S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03	File ID:	7LG012.D
Sampled:	12/08/06 12:36	Prepared:	12/12/06 09:00	Analyzed:	12/12/06 16:39
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	0.4	J for P UJ for C
67-64-1	Acetone	1	5.5	J
75-15-0	Carbon disulfide	1	5.0	U UJ for C
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U UJ for C
78-93-3	2-Butanone	1	5.0	U UJ for C
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U UJ for C
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	0.5	J for P
79-01-6	Trichloroethene	1	0.3	J for P
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U UJ for E
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	0.7	J J for C (P)
127-18-4	Tetrachloroethene	1	1.0	U UJ for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	2.7	
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	2.5	

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW25S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03	File ID:	7LG012.D
Sampled:	12/08/06 12:36	Prepared:	12/12/06 09:00	Analyzed:	12/12/06 16:39
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U	
541-73-1	1,3-Dichlorobenzene	1	1.0	U	
106-46-7	1,4-Dichlorobenzene	1	3.2		
95-50-1	1,2-Dichlorobenzene	1	0.6	J	for P
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.9	J	for A, C
60-29-7	Diethyl ether	1	1.0	U	
76-13-1	Freon 113	1	1.0	U	
NA	Xylenes (Total)	1	0.6	J	for P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	45.9	92	85 - 115	
Toluene-d8	50.0	48.7	97	85 - 120	
4-Bromofluorobenzene	50.0	43.2	86	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	352582	11.43	421640	11.43	
1,4-Difluorobenzene	736570	12.09	856095	12.09	
Chlorobenzene-d5	663450	15.28	776355	15.27	
1,4-Dichlorobenzene-d4	259951	17.46	311791	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW26S-120806

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610655-04 | File ID: 7LG013.D

Sampled: 12/08/06 11:48 | Prepared: 12/12/06 09:00 | Analyzed: 12/12/06 17:09

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 6L12026 | Sequence: BA00118 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ hrL
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.0	U UJ hrL
75-15-0	Carbon disulfide	1	5.0	U UJ hrL
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U UJ hrL
78-93-3	2-Butanone	1	5.0	U UJ hrL
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U UJ hrL
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ hrL
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U UJ hrL
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U UJ hrE
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ hrL
127-18-4	Tetrachloroethene	1	1.0	U UJ hrL
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW26S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-04	File ID:	7LG013.D
Sampled:	12/08/06 11:48	Prepared:	12/12/06 09:00	Analyzed:	12/12/06 17:09
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U 45 for C
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.6	93	85 - 115	
Toluene-d8	50.0	48.4	97	85 - 120	
4-Bromofluorobenzene	50.0	43.5	87	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	349503	11.43	421640	11.43	
1,4-Difluorobenzene	741157	12.09	856095	12.09	
Chlorobenzene-d5	667296	15.27	776355	15.27	
1,4-Dichlorobenzene-d4	255530	17.46	311791	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW28S-120806

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610655-05 | File ID: 7LG014.D

Sampled: 12/08/06 10:44 | Prepared: 12/12/06 09:00 | Analyzed: 12/12/06 17:40

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL/5 mL

Batch: 6L12026 | Sequence: BA00118 | Calibration: 0612011 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1	1.0	U UJ for C
74-87-3	Chloromethane	1	1.0	U
75-01-4	Vinyl chloride	1	1.0	U
74-83-9	Bromomethane	1	1.0	U
75-00-3	Chloroethane	1	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	U
67-64-1	Acetone	1	5.4	J for B
75-15-0	Carbon disulfide	1	5.0	U UJ for C
75-09-2	Methylene Chloride	1	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	U UJ for C
78-93-3	2-Butanone	1	5.0	U UJ for C
156-59-2	cis-1,2-Dichloroethene	1	1.0	U
67-66-3	Chloroform	1	1.0	U UJ for C
71-55-6	1,1,1-Trichloroethane	1	1.0	U UJ for C
56-23-5	Carbon Tetrachloride	1	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	U UJ for C
71-43-2	Benzene	1	1.0	U
79-01-6	Trichloroethene	1	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	U
75-27-4	Bromodichloromethane	1	0.4	U UJ for E
10061-01-5	cis-1,3-Dichloropropene	1	0.2	U
108-10-1	4-Methyl-2-pentanone	1	5.0	U
108-88-3	Toluene	1	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.2	U
110-82-7	Cyclohexane	1	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	U
79-20-9	Methyl acetate	1	1.0	U
108-87-2	Methyl cyclohexane	1	1.0	U UJ for C
127-18-4	Tetrachloroethene	1	1.0	U UJ for C
591-78-6	2-Hexanone	1	5.0	U
124-48-1	Dibromochloromethane	1	0.2	U
106-93-4	1,2-Dibromoethane	1	1.0	U
108-90-7	Chlorobenzene	1	1.0	U
100-41-4	Ethylbenzene	1	1.0	U
100-42-5	Styrene	1	1.0	U
75-25-2	Bromoform	1	1.0	U
98-82-8	Isopropylbenzene	1	1.0	U

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW28S-120806

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610655-05	File ID:	7LG014.D
Sampled:	12/08/06 10:44	Prepared:	12/12/06 09:00	Analyzed:	12/12/06 17:40
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	0.2	U
541-73-1	1,3-Dichlorobenzene	1	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U uj trc
60-29-7	Diethyl ether	1	1.0	U
76-13-1	Freon 113	1	1.0	U
NA	Xylenes (Total)	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	44.8	90	85 - 115	
Toluene-d8	50.0	47.8	96	85 - 120	
4-Bromofluorobenzene	50.0	43.0	86	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	341065	11.43	421640	11.43	
1,4-Difluorobenzene	726693	12.09	856095	12.09	
Chlorobenzene-d5	636905	15.27	776355	15.27	
1,4-Dichlorobenzene-d4	254100	17.46	311791	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW11D-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-02	File ID:	5LM028.D
Sampled:	12/01/06 16:15	Prepared:	12/08/06 11:14	Analyzed:	12/19/06 02:43
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007

Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-95-2	Phenol	1	10	U	
111-44-4	Bis(2-chloroethyl)ether	1	10	U	
95-57-8	2-Chlorophenol	1	10	U	
95-48-7	2-Methylphenol	1	10	U	
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U	
106-44-5	3 & 4-Methylphenol	1	10	U	
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	
67-72-1	Hexachloroethane	1	10	U	
98-95-3	Nitrobenzene	1	10	U	
78-59-1	Isophorone	1	10	U	
88-75-5	2-Nitrophenol	1	10	U	
105-67-9	2,4-Dimethylphenol	1	10	U	
111-91-1	Bis(2-chloroethoxy)methane	1	10	U	
120-83-2	2,4-Dichlorophenol	1	10	U	
91-20-3	Naphthalene	1	10	U	
106-47-8	4-Chloroaniline	1	10	UJ	for L
87-68-3	Hexachlorobutadiene	1	10	U	
59-50-7	4-Chloro-3-methylphenol	1	10	U	
91-57-6	2-Methylnaphthalene	1	10	U	
77-47-4	Hexachlorocyclopentadiene	1	10	U	
88-06-2	2,4,6-Trichlorophenol	1	10	U	
95-95-4	2,4,5-Trichlorophenol	1	10	U	
91-58-7	2-Chloronaphthalene	1	10	U	
88-74-4	2-Nitroaniline	1	10	U	
131-11-3	Dimethylphthalate	1	10	U	
606-20-2	2,6-Dinitrotoluene	1	10	U	
208-96-8	Acenaphthylene	1	10	U	
99-09-2	3-Nitroaniline	1	10	UJ	for L
83-32-9	Acenaphthene	1	10	U	
51-28-5	2,4-Dinitrophenol	1	10	U	
100-02-7	4-Nitrophenol	1	10	U	
132-64-9	Dibenzofuran	1	10	U	
121-14-2	2,4-Dinitrotoluene	1	10	U	
84-66-2	Diethylphthalate	1	10	U	
7005-72-3	4-Chlorophenyl-phenylether	1	10	U	
86-73-7	Fluorene	1	10	U	
100-01-6	4-Nitroaniline	1	10	U	
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ	for L
86-30-6	N-Nitrosodiphenylamine	1	10	U	
101-55-3	4-Bromophenyl-phenylether	1	10	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW11D-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-02	File ID:	5LM028.D
Sampled:	12/01/06 16:15	Prepared:	12/08/06 11:14	Analyzed:	12/19/06 02:43
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	43.4	43	20 - 110	
Phenol-d5	100	28.5	28	10 - 94	
Nitrobenzene-d5	50.0	42.9	86	40 - 110	
2-Fluorobiphenyl	50.0	41.1	82	50 - 110	
2,4,6-Tribromophenol	100	96.7	97	40 - 125	
Terphenyl-d14	50.0	48.5	97	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	281552	4.77	226546	4.77	
Naphthalene-d8	920400	5.97	766895	5.97	
Acenaphthene-d10	586302	7.7	511088	7.7	
Phenanthrene-d10	1021162	9.2	871153	9.2	
Chrysene-d12	1220920	11.85	979468	11.85	
Perylene-d12	1354960	13.24	826548	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-03	File ID:	5LM029.D
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:14	Analyzed:	12/19/06 03:08
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-95-2	Phenol	1	10	U	
111-44-4	Bis(2-chloroethyl)ether	1	10	U	
95-57-8	2-Chlorophenol	1	10	U	
95-48-7	2-Methylphenol	1	10	U	
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U	
106-44-5	3 & 4-Methylphenol	1	10	U	
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	
67-72-1	Hexachloroethane	1	10	U	
98-95-3	Nitrobenzene	1	10	U	
78-59-1	Isophorone	1	10	U	
88-75-5	2-Nitrophenol	1	10	U	
105-67-9	2,4-Dimethylphenol	1	10	U	
111-91-1	Bis(2-chloroethoxy)methane	1	10	U	
120-83-2	2,4-Dichlorophenol	1	10	U	
106-47-8	4-Chloroaniline	1	10	UJ	for L
87-68-3	Hexachlorobutadiene	1	10	U	
59-50-7	4-Chloro-3-methylphenol	1	10	U	
77-47-4	Hexachlorocyclopentadiene	1	10	U	
88-06-2	2,4,6-Trichlorophenol	1	10	U	
95-95-4	2,4,5-Trichlorophenol	1	10	U	
91-58-7	2-Chloronaphthalene	1	10	U	
88-74-4	2-Nitroaniline	1	10	U	
131-11-3	Dimethylphthalate	1	10	U	
606-20-2	2,6-Dinitrotoluene	1	10	U	
208-96-8	Acenaphthylene	1	10	U	
99-09-2	3-Nitroaniline	1	10	UJ	for L
83-32-9	Acenaphthene	1	10	U	
51-28-5	2,4-Dinitrophenol	1	10	U	
100-02-7	4-Nitrophenol	1	10	U	
132-64-9	Dibenzofuran	1	10	U	
121-14-2	2,4-Dinitrotoluene	1	10	U	
84-66-2	Diethylphthalate	1	10	U	
7005-72-3	4-Chlorophenyl-phenylether	1	10	U	
86-73-7	Fluorene	1	10	U	
100-01-6	4-Nitroaniline	1	10	U	
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ	for L
86-30-6	N-Nitrosodiphenylamine	1	10	U	
101-55-3	4-Bromophenyl-phenylether	1	10	U	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for L

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-03	File ID:	5LM029.D
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:14	Analyzed:	12/19/06 03:08
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007

Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	8	(J)	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	45.2	45	20 - 110	
Phenol-d5	100	27.6	28	10 - 94	
Nitrobenzene-d5	50.0	44.5	89	40 - 110	
2-Fluorobiphenyl	50.0	40.9	82	50 - 110	
2,4,6-Tribromophenol	100	117	117	40 - 125	
Terphenyl-d14	50.0	51.7	103	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	276890	4.77	226546	4.77	
Naphthalene-d8	952991	5.97	766895	5.97	
Acenaphthene-d10	637531	7.71	511088	7.7	
Phenanthrene-d10	1129644	9.2	871153	9.2	
Chrysene-d12	1508228	11.86	979468	11.85	
Perylene-d12	1556161	13.25	826548	13.24	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610566-03RE1	File ID:	5LN011.D
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:14	Analyzed:	12/19/06 15:20
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L08004	Sequence:	BA00105	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
91-20-3	Naphthalene	10	194	D
91-57-6	2-Methylnaphthalene	10	103	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	28.8	29	20 - 110	
Phenol-d5	100	12.3	12	10 - 94	
Nitrobenzene-d5	50.0	28.6	57	40 - 110	
2-Fluorobiphenyl	50.0	37.0	74	50 - 110	
2,4,6-Tribromophenol	100	84.6	85	40 - 125	
Terphenyl-d14	50.0	39.7	79	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	165272	4.77	254223	4.77	
Naphthalene-d8	574838	5.97	823111	5.97	
Acenaphthene-d10	403050	7.7	528211	7.71	
Phenanthrene-d10	712943	9.19	864217	9.2	
Chrysene-d12	831952	11.85	1132072	11.85	
Perylene-d12	873552	13.24	1129997	13.25	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW14D-120106

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610566-04 File ID: 5LM030.D

Sampled: 12/01/06 15:00 Prepared: 12/08/06 11:14 Analyzed: 12/19/06 03:33

Solids: Preparation: EPA 3510C_MS Initial/Final: 500 mL / 0.5 mL

Batch: 6L08004 Sequence: BA00104 Calibration: 0612007 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-95-2	Phenol	1	10	U	
111-44-4	Bis(2-chloroethyl)ether	1	10	U	
95-57-8	2-Chlorophenol	1	10	U	
95-48-7	2-Methylphenol	1	10	U	
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U	
106-44-5	3 & 4-Methylphenol	1	10	U	
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	
67-72-1	Hexachloroethane	1	10	U	
98-95-3	Nitrobenzene	1	10	U	
78-59-1	Isophorone	1	10	U	
88-75-5	2-Nitrophenol	1	10	U	
105-67-9	2,4-Dimethylphenol	1	10	U	
111-91-1	Bis(2-chloroethoxy)methane	1	10	U	
120-83-2	2,4-Dichlorophenol	1	10	U	
91-20-3	Naphthalene	1	10	U	
106-47-8	4-Chloroaniline	1	10	UJ	for L
87-68-3	Hexachlorobutadiene	1	10	U	
59-50-7	4-Chloro-3-methylphenol	1	10	U	
91-57-6	2-Methylnaphthalene	1	10	U	
77-47-4	Hexachlorocyclopentadiene	1	10	U	
88-06-2	2,4,6-Trichlorophenol	1	10	U	
95-95-4	2,4,5-Trichlorophenol	1	10	U	
91-58-7	2-Chloronaphthalene	1	10	U	
88-74-4	2-Nitroaniline	1	10	U	
131-11-3	Dimethylphthalate	1	10	U	
606-20-2	2,6-Dinitrotoluene	1	10	U	
208-96-8	Acenaphthylene	1	10	U	
99-09-2	3-Nitroaniline	1	10	UJ	for L
83-32-9	Acenaphthene	1	10	U	
51-28-5	2,4-Dinitrophenol	1	10	U	
100-02-7	4-Nitrophenol	1	10	U	
132-64-9	Dibenzofuran	1	10	U	
121-14-2	2,4-Dinitrotoluene	1	10	U	
84-66-2	Diethylphthalate	1	10	U	
7005-72-3	4-Chlorophenyl-phenylether	1	10	U	
86-73-7	Fluorene	1	10	U	
100-01-6	4-Nitroaniline	1	10	U	
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ	for L
86-30-6	N-Nitrosodiphenylamine	1	10	U	
101-55-3	4-Bromophenyl-phenylether	1	10	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW14D-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610566-04	File ID:	5LM030.D
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:14	Analyzed:	12/19/06 03:33
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	UJ
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	UJ
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	40.0	40	20 - 110	
Phenol-d5	100	25.3	25	10 - 94	
Nitrobenzene-d5	50.0	41.5	83	40 - 110	
2-Fluorobiphenyl	50.0	40.2	80	50 - 110	
2,4,6-Tribromophenol	100	96.8	97	40 - 125	
Terphenyl-d14	50.0	48.1	96	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	278946	4.77	226546	4.77	
Naphthalene-d8	930697	5.97	766895	5.97	
Acenaphthene-d10	597405	7.7	511088	7.7	
Phenanthrene-d10	1021908	9.2	871153	9.2	
Chrysene-d12	1187308	11.85	979468	11.85	
Perylene-d12	1290926	13.24	826548	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW4S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-01	File ID:	5LM027.D
Sampled:	12/01/06 11:30	Prepared:	12/08/06 11:14	Analyzed:	12/19/06 02:18
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-95-2	Phenol	1	10	U	
111-44-4	Bis(2-chloroethyl)ether	1	10	U	
95-57-8	2-Chlorophenol	1	10	U	
95-48-7	2-Methylphenol	1	10	U	
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U	
106-44-5	3 & 4-Methylphenol	1	10	U	
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	
67-72-1	Hexachloroethane	1	10	U	
98-95-3	Nitrobenzene	1	10	U	
78-59-1	Isophorone	1	10	U	
88-75-5	2-Nitrophenol	1	10	U	
105-67-9	2,4-Dimethylphenol	1	10	U	
111-91-1	Bis(2-chloroethoxy)methane	1	10	U	
120-83-2	2,4-Dichlorophenol	1	87		
91-20-3	Naphthalene	1	10	U	
106-47-8	4-Chloroaniline	1	10	UJ	for C
87-68-3	Hexachlorobutadiene	1	10	U	
59-50-7	4-Chloro-3-methylphenol	1	10	U	
91-57-6	2-Methylnaphthalene	1	10	U	
77-47-4	Hexachlorocyclopentadiene	1	10	U	
88-06-2	2,4,6-Trichlorophenol	1	10	U	
95-95-4	2,4,5-Trichlorophenol	1	10	U	
91-58-7	2-Chloronaphthalene	1	10	U	
88-74-4	2-Nitroaniline	1	10	U	
131-11-3	Dimethylphthalate	1	10	U	
606-20-2	2,6-Dinitrotoluene	1	10	U	
208-96-8	Acenaphthylene	1	10	U	
99-09-2	3-Nitroaniline	1	10	UJ	for C
83-32-9	Acenaphthene	1	10	U	
51-28-5	2,4-Dinitrophenol	1	10	U	
100-02-7	4-Nitrophenol	1	10	U	
132-64-9	Dibenzofuran	1	10	U	
121-14-2	2,4-Dinitrotoluene	1	10	U	
84-66-2	Diethylphthalate	1	10	U	
7005-72-3	4-Chlorophenyl-phenylether	1	10	U	
86-73-7	Fluorene	1	10	U	
100-01-6	4-Nitroaniline	1	10	U	
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ	for C
86-30-6	N-Nitrosodiphenylamine	1	10	U	
101-55-3	4-Bromophenyl-phenylether	1	10	U	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-937MW4S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-01	File ID:	5LM027.D
Sampled:	12/01/06 11:30	Prepared:	12/08/06 11:14	Analyzed:	12/19/06 02:18
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	12	J	b/c
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	b/c
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	b/c
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	43.3	43	20 - 110	
Phenol-d5	100	29.1	29	10 - 94	
Nitrobenzene-d5	50.0	41.1	82	40 - 110	
2-Fluorobiphenyl	50.0	41.2	82	50 - 110	
2,4,6-Tribromophenol	100	118	118	40 - 125	
Terphenyl-d14	50.0	53.8	108	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	216426	4.77	226546	4.77	
Naphthalene-d8	743758	5.97	766895	5.97	
Acenaphthene-d10	460259	7.71	511088	7.7	
Phenanthrene-d10	849702	9.2	871153	9.2	
Chrysene-d12	1301199	11.88	979468	11.85	
Perylene-d12	1319512	13.25	826548	13.24	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW12S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-01	File ID:	5LL020.D
Sampled:	12/08/06 13:32	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 21:02
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007

Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW12S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-01	File ID:	5LL020.D
Sampled:	12/08/06 13:32	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 21:02
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	41.1	41	20 - 110	
Nitrobenzene-d5	50.0	54.2	108	40 - 110	
2-Fluorobiphenyl	50.0	47.0	94	50 - 110	
2,4,6-Tribromophenol	100	138	138	40 - 125	*
Terphenyl-d14	50.0	62.2	124	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	141163	4.78	183809	4.78	
Naphthalene-d8	437354	5.98	642908	5.98	
Acenaphthene-d10	291178	7.71	423940	7.71	
Phenanthrene-d10	506689	9:2	727271	9.2	
Chrysene-d12	570033	11.85	758681	11.86	
Perylene-d12	575949	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW14S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-02	File ID:	5LL021.D
Sampled:	12/08/06 09:54	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 21:27
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ for C
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW14S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-02	File ID:	5LL021.D
Sampled:	12/08/06 09:54	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 21:27
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007	Instrument:	JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	36.8	37	20 - 110	
Nitrobenzene-d5	50.0	48.5	97	40 - 110	
2-Fluorobiphenyl	50.0	42.8	86	50 - 110	
2,4,6-Tribromophenol	100	126	126	40 - 125	*
Terphenyl-d14	50.0	56.1	112	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	180840	4.78	183809	4.78	
Naphthalene-d8	577834	5.98	642908	5.98	
Acenaphthene-d10	381557	7.71	423940	7.71	
Phenanthrene-d10	671289	9.2	727271	9.2	
Chrysene-d12	750016	11.85	758681	11.86	
Perylene-d12	759892	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW16D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-01	File ID:	5LL013.D
Sampled:	12/05/06 12:46	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 18:12
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW16D-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-01	File ID:	5LL013.D
Sampled:	12/05/06 12:46	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 18:12
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence: BA00101		Calibration: 0612007	Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
118-74-1	Hexachlorobenzene	1	10	U
87-86-5	Pentachlorophenol	1	10	UJ for C
85-01-8	Phenanthrene	1	10	U
120-12-7	Anthracene	1	10	U
86-74-8	Carbazole	1	10	UJ for C
84-74-2	Di-n-butylphthalate	1	10	U
206-44-0	Fluoranthene	1	10	U
129-00-0	Pyrene	1	10	U
92-52-4	1,1'-Biphenyl	1	10	U
1912-24-9	Atrazine	1	10	U
85-68-7	Butylbenzylphthalate	1	10	U
100-52-7	Benzaldehyde	1	10	U
91-94-1	3,3'-Dichlorobenzidine	1	10	U
105-60-2	Caprolactam	1	10	U
56-55-3	Benzo(a)anthracene	1	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U
218-01-9	Chrysene	1	10	U
117-84-0	Di-n-octylphthalate	1	10	U
205-99-2	Benzo(b)fluoranthene	1	10	U
207-08-9	Benzo(k)fluoranthene	1	10	U
50-32-8	Benzo(a)pyrene	1	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U
53-70-3	Dibenzo(a,h)anthracene	1	10	U
191-24-2	Benzo(g,h,i)perylene	1	10	UJ for C
98-86-2	Acetophenone	1	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	33.1	33	20 - 110	
Nitrobenzene-d5	50.0	50.8	102	40 - 110	
2-Fluorobiphenyl	50.0	46.6	93	50 - 110	
2,4,6-Tribromophenol	100	131	131	40 - 125	*
Terphenyl-d14	50.0	55.8	112	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	184878	4.78	183809	4.78	
Naphthalene-d8	604261	5.98	642908	5.98	
Acenaphthene-d10	400578	7.71	423940	7.71	
Phenanthrene-d10	709364	9.2	727271	9.2	
Chrysene-d12	786182	11.86	758681	11.86	
Perylene-d12	811134	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW16S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-02	File ID:	5LL014.D
Sampled:	12/05/06 13:38	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 18:37
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW16S-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-02	File ID:	5LL014.D
Sampled:	12/05/06 13:38	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 18:37
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	frc
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	frc
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	frc
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	36.1	36	20 - 110	
Nitrobenzene-d5	50.0	55.2	110	40 - 110	
2-Fluorobiphenyl	50.0	49.0	98	50 - 110	
2,4,6-Tribromophenol	100	122	122	40 - 125	
Terphenyl-d14	50.0	60.6	121	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	166689	4.78	183809	4.78	
Naphthalene-d8	536690	5.98	642908	5.98	
Acenaphthene-d10	372801	7.71	423940	7.71	
Phenanthrene-d10	650883	9.2	727271	9.2	
Chrysene-d12	730720	11.86	758681	11.86	
Perylene-d12	747235	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW17D-120506

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610567-03 File ID: 5LL015.D

Sampled: 12/05/06 14:41 Prepared: 12/12/06 07:55 Analyzed: 12/17/06 19:01

Solids: Preparation: EPA 3510C_MS Initial/Final: 500 mL / 0.5 mL

Batch: 6L12004 Sequence: BA00101 Calibration: 0612007 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW17D-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-03	File ID:	5LL015.D
Sampled:	12/05/06 14:41	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 19:01
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	43.8	44	20 - 110	
Nitrobenzene-d5	50.0	57.0	114	40 - 110	*
2-Fluorobiphenyl	50.0	50.2	100	50 - 110	
2,4,6-Tribromophenol	100	146	146	40 - 125	*
Terphenyl-d14	50.0	60.6	121	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	152962	4.78	183809	4.78	
Naphthalene-d8	508219	5.98	642908	5.98	
Acenaphthene-d10	344596	7.71	423940	7.71	
Phenanthrene-d10	608452	9.2	727271	9.2	
Chrysene-d12	664001	11.86	758681	11.86	
Perylene-d12	695286	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW17S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-04	File ID:	5LL016.D
Sampled:	12/05/06 15:31	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 19:25
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

for C

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW17S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-04	File ID:	5LL016.D
Sampled:	12/05/06 15:31	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 19:25
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	32.0	32	20 - 110	
Nitrobenzene-d5	50.0	44.3	89	40 - 110	
2-Fluorobiphenyl	50.0	41.8	84	50 - 110	
2,4,6-Tribromophenol	100	111	111	40 - 125	
Terphenyl-d14	50.0	47.1	94	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	188447	4.78	183809	4.78	
Naphthalene-d8	637544	5.98	642908	5.98	
Acenaphthene-d10	411817	7.71	423940	7.71	
Phenanthrene-d10	735624	9.2	727271	9.2	
Chrysene-d12	814375	11.86	758681	11.86	
Perylene-d12	845082	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW19S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-05	File ID:	5LL017.D
Sampled:	12/05/06 16:17	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 19:49
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

for C

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW19S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-05	File ID:	5LL017.D
Sampled:	12/05/06 16:17	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 19:49
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	31.5	32	20 - 110	
Nitrobenzene-d5	50.0	39.8	80	40 - 110	
2-Fluorobiphenyl	50.0	34.0	68	50 - 110	
2,4,6-Tribromophenol	100	99.0	99	40 - 125	
Terphenyl-d14	50.0	41.2	82	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	215595	4.78	183809	4.78	
Naphthalene-d8	723232	5.98	642908	5.98	
Acenaphthene-d10	512020	7.71	423940	7.71	
Phenanthrene-d10	929411	9.2	727271	9.2	
Chrysene-d12	1014529	11.85	758681	11.86	
Perylene-d12	1049440	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW23S-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-06 | File ID: 5LL018.D

Sampled: 12/05/06 10:46 | Prepared: 12/12/06 07:55 | Analyzed: 12/17/06 20:13

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 6L12004 | Sequence: BA00101 | Calibration: 0612007 | Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

fr C

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW23S-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-06	File ID:	5LL018.D
Sampled:	12/05/06 10:46	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 20:13
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	37.5	38	20 - 110	
Nitrobenzene-d5	50.0	48.1	96	40 - 110	
2-Fluorobiphenyl	50.0	42.8	86	50 - 110	
2,4,6-Tribromophenol	100	120	120	40 - 125	
Terphenyl-d14	50.0	52.4	105	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	191133	4.78	183809	4.78	
Naphthalene-d8	633384	5.98	642908	5.98	
Acenaphthene-d10	416384	7.71	423940	7.71	
Phenanthrene-d10	744272	9.2	727271	9.2	
Chrysene-d12	829134	11.85	758681	11.86	
Perylene-d12	858076	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW24D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-07	File ID:	5LL019.D
Sampled:	12/05/06 11:39	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 20:38
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

for C

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW24D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-07	File ID:	5LL019.D
Sampled:	12/05/06 11:39	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 20:38
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	fr C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	fr C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	fr C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	26.5	27	20 - 110	
Nitrobenzene-d5	50.0	36.1	72	40 - 110	
2-Fluorobiphenyl	50.0	31.9	64	50 - 110	
2,4,6-Tribromophenol	100	100	100	40 - 125	
Terphenyl-d14	50.0	46.7	93	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	171956	4.78	183809	4.78	
Naphthalene-d8	570663	5.98	642908	5.98	
Acenaphthene-d10	382237	7.71	423940	7.71	
Phenanthrene-d10	660147	9.2	727271	9.2	
Chrysene-d12	724931	11.86	758681	11.86	
Perylene-d12	770969	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW25S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03	File ID:	5LL022.D
Sampled:	12/08/06 12:36	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 21:52
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	30	
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	25	
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U for C
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW25S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03	File ID:	5LL022.D
Sampled:	12/08/06 12:36	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 21:52
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	5	(J)	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	21.6	22	20 - 110	
Nitrobenzene-d5	50.0	34.4	69	40 - 110	
2-Fluorobiphenyl	50.0	31.5	63	50 - 110	
2,4,6-Tribromophenol	100	101	101	40 - 125	
Terphenyl-d14	50.0	45.9	92	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	174809	4.78	183809	4.78	
Naphthalene-d8	594783	5.98	642908	5.98	
Acenaphthene-d10	396715	7.71	423940	7.71	
Phenanthrene-d10	722065	9.2	727271	9.2	
Chrysene-d12	865365	11.85	758681	11.86	
Perylene-d12	880794	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW26S-120806

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610655-04 | File ID: 5LL023.D

Sampled: 12/08/06 11:48 | Prepared: 12/12/06 07:55 | Analyzed: 12/17/06 22:17

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 6L12004 | Sequence: BA00101 | Calibration: 0612007 | Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	U J for C
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW26S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-04	File ID:	5LL023.D
Sampled:	12/08/06 11:48	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 22:17
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	26.8	27	20 - 110	
Nitrobenzene-d5	50.0	34.4	69	40 - 110	
2-Fluorobiphenyl	50.0	30.9	62	50 - 110	
2,4,6-Tribromophenol	100	85.0	85	40 - 125	
Terphenyl-d14	50.0	41.4	83	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	193387	4.78	183809	4.78	
Naphthalene-d8	655751	5.98	642908	5.98	
Acenaphthene-d10	443985	7.71	423940	7.71	
Phenanthrene-d10	785262	9.2	727271	9.2	
Chrysene-d12	864143	11.86	758681	11.86	
Perylene-d12	878310	13.25	606423	13.25	

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW28S-120806

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610655-05	File ID:	5LL024.D
Sampled:	12/08/06 10:44	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 22:42
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-95-2	Phenol	1	10	U
111-44-4	Bis(2-chloroethyl)ether	1	10	U
95-57-8	2-Chlorophenol	1	10	U
95-48-7	2-Methylphenol	1	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	1	10	U
106-44-5	3 & 4-Methylphenol	1	10	U
621-64-7	N-Nitroso-di-n-propylamine	1	10	U
67-72-1	Hexachloroethane	1	10	U
98-95-3	Nitrobenzene	1	10	U
78-59-1	Isophorone	1	10	U
88-75-5	2-Nitrophenol	1	10	U
105-67-9	2,4-Dimethylphenol	1	10	U
111-91-1	Bis(2-chloroethoxy)methane	1	10	U
120-83-2	2,4-Dichlorophenol	1	10	U
91-20-3	Naphthalene	1	10	U
106-47-8	4-Chloroaniline	1	10	U
87-68-3	Hexachlorobutadiene	1	10	U
59-50-7	4-Chloro-3-methylphenol	1	10	U
91-57-6	2-Methylnaphthalene	1	10	U
77-47-4	Hexachlorocyclopentadiene	1	10	U
88-06-2	2,4,6-Trichlorophenol	1	10	U
95-95-4	2,4,5-Trichlorophenol	1	10	U
91-58-7	2-Chloronaphthalene	1	10	U
88-74-4	2-Nitroaniline	1	10	U
131-11-3	Dimethylphthalate	1	10	U
606-20-2	2,6-Dinitrotoluene	1	10	U
208-96-8	Acenaphthylene	1	10	U
99-09-2	3-Nitroaniline	1	10	U
83-32-9	Acenaphthene	1	10	U
51-28-5	2,4-Dinitrophenol	1	10	U
100-02-7	4-Nitrophenol	1	10	U
132-64-9	Dibenzofuran	1	10	U
121-14-2	2,4-Dinitrotoluene	1	10	U
84-66-2	Diethylphthalate	1	10	U
7005-72-3	4-Chlorophenyl-phenylether	1	10	U
86-73-7	Fluorene	1	10	U
100-01-6	4-Nitroaniline	1	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	10	UJ
86-30-6	N-Nitrosodiphenylamine	1	10	U
101-55-3	4-Bromophenyl-phenylether	1	10	U

for C

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW28S-120806

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610655-05	File ID:	5LL024.D
Sampled:	12/08/06 10:44	Prepared:	12/12/06 07:55	Analyzed:	12/17/06 22:42
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007	Instrument:	JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
118-74-1	Hexachlorobenzene	1	10	U	
87-86-5	Pentachlorophenol	1	10	UJ	for C
85-01-8	Phenanthrene	1	10	U	
120-12-7	Anthracene	1	10	U	
86-74-8	Carbazole	1	10	UJ	for C
84-74-2	Di-n-butylphthalate	1	10	U	
206-44-0	Fluoranthene	1	10	U	
129-00-0	Pyrene	1	10	U	
92-52-4	1,1'-Biphenyl	1	10	U	
1912-24-9	Atrazine	1	10	U	
85-68-7	Butylbenzylphthalate	1	10	U	
100-52-7	Benzaldehyde	1	10	U	
91-94-1	3,3'-Dichlorobenzidine	1	10	U	
105-60-2	Caprolactam	1	10	U	
56-55-3	Benzo(a)anthracene	1	10	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	10	U	
218-01-9	Chrysene	1	10	U	
117-84-0	Di-n-octylphthalate	1	10	U	
205-99-2	Benzo(b)fluoranthene	1	10	U	
207-08-9	Benzo(k)fluoranthene	1	10	U	
50-32-8	Benzo(a)pyrene	1	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	
53-70-3	Dibenzo(a,h)anthracene	1	10	U	
191-24-2	Benzo(g,h,i)perylene	1	10	UJ	for C
98-86-2	Acetophenone	1	10	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	23.8	24	20 - 110	
Nitrobenzene-d5	50.0	40.4	81	40 - 110	
2-Fluorobiphenyl	50.0	37.4	75	50 - 110	
2,4,6-Tribromophenol	100	103	103	40 - 125	
Terphenyl-d14	50.0	50.6	101	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	166174	4.78	183809	4.78	
Naphthalene-d8	550165	5.98	642908	5.98	
Acenaphthene-d10	367530	7.71	423940	7.71	
Phenanthrene-d10	653283	9.2	727271	9.2	
Chrysene-d12	743058	11.85	758681	11.86	
Perylene-d12	768545	13.25	606423	13.25	

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW11D-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-02	File ID:	9LHA011-0
Sampled:	12/01/06 16:15	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 16:57
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L08003	Sequence:	BA00099	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.003	(J) U5 for A
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.010	(JP) J for 4
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.643	64	25 - 140	
DBC	1.00	0.722	72	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-03	File ID:	9LHA012-0
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 17:23
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L08003	Sequence:	BA00099	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-85-7	beta-BHC	1	1.2	
76-44-8	Heptachlor	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.033	JP T for 4
72-20-8	Endrin	1	0.021	J for P
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.023	JP R for 4
50-29-3	4,4'-DDT	1	0.007	J R for 4
7421-93-4	Endrin aldehyde	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.007	JP R for 4
53494-70-5	Endrin ketone	1	0.050	U
8001-35-2	Toxaphene	1	1.0	U
309-00-2	Aldrin	1	0.022	JP R for 4
NA	Chlordane-gamma	1	0.050	U
72-43-5	Methoxychlor	1	0.006	JP R for 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.578	58	25 - 140	
DBC	1.00	0.686	69	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610566-03RE1	File ID:	9LIA011-0
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:09	Analyzed:	12/14/06 21:17
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L08003	Sequence:	BA00099	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	10	9.3	D
58-89-9	gamma-BHC	10	15	D
319-86-8	delta-BHC	10	8.3	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW14D-120106

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610566-04 File ID: 9LHA013-0

Sampled: 12/01/06 15:00 Prepared: 12/08/06 11:09 Analyzed: 12/13/06 17:49

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L08003 Sequence: BA00099 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.003	J	for P
58-89-9	gamma-BHC	1	0.002	JP Q	for Y
319-85-7	beta-BHC	1	0.050	U	
319-86-8	delta-BHC	1	0.026	JP Q	for Y
76-44-8	Heptachlor	1	0.002	JP Q	for Y
309-00-2	Aldrin	1	0.050	U	
1024-57-3	Heptachlor epoxide	1	0.050	U	
NA	Chlordane-gamma	1	0.050	U	
NA	Chlordane-alpha	1	0.002	JP Q	for Y
72-55-9	4,4´-DDE	1	0.003	J	for P
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.050	U	
72-20-8	Endrin	1	0.050	U	
72-54-8	4,4´-DDD	1	0.050	U	
33213-65-9	Endosulfan II	1	0.050	U	
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.050	U	
1031-07-8	Endosulfan sulfate	1	0.050	U	
53494-70-5	Endrin ketone	1	0.019	JP T	for Y
8001-35-2	Toxaphene	1	1.0	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.570	57	25 - 140	
DBC	1.00	0.725	72	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW4S-120106

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610566-01 File ID: 9LHA010-0

Sampled: 12/01/06 11:30 Prepared: 12/08/06 11:09 Analyzed: 12/13/06 16:31

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L08003 Sequence: BA00099 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.45	
58-89-9	gamma-BHC	1	0.66	
76-44-8	Heptachlor	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.020	JP R for 4
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.056	
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.19	P J for 4
72-20-8	Endrin	1	0.008	JP R for 4
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.009	J for P
53494-70-5	Endrin ketone	1	0.18	
8001-35-2	Toxaphene	1	1.0	U
* 319-85-7	beta-BHC	1	0.89	P R for 4
319-86-8	delta-BHC	1	0.75	
* 309-00-2	Aldrin	1	0.064	P R for 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.903	90	25 - 140	
DBC	1.00	0.886	89	30 - 135	

* Values outside of QC limits

result reported as 3.9 w2 PE code

result reported as 1.4 w2 PE code

PESTICIDES ANALYSIS DATA SHEET

JAX47-937MW4S-120106

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610566-01RE1	File ID:	9LIA010-0
Sampled:	12/01/06 11:30	Prepared:	12/08/06 11:09	Analyzed:	12/14/06 20:51
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L08003	Sequence:	BA00099	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
72-54-8	4,4´-DDD	10	8.2	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW12S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-01	File ID:	9LGA037-0
Sampled:	12/08/06 13:32	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 05:19
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
76-44-8	Heptachlor	1	0.050	U	
309-00-2	Aldrin	1	0.050	U	
1024-57-3	Heptachlor epoxide	1	0.081	P	J for R4
NA	Chlordane-gamma	1	0.016	JP	J for R for 4
NA	Chlordane-alpha	1	0.44	P	J for R for 4
959-98-8	Endosulfan I	1	0.050	U	
72-20-8	Endrin	1	0.050	U	
72-54-8	4,4'-DDD	1	0.050	U	
50-29-3	4,4'-DDT	1	0.002	J	J for R
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.050	U	
1031-07-8	Endosulfan sulfate	1	0.050	U	
53494-70-5	Endrin ketone	1	0.027	J	for EP
8001-35-2	Toxaphene	1	1.0	U	J for R
319-84-6	alpha-BHC	1	0.11	P	R for 4
58-89-9	gamma-BHC	1	0.12		
319-85-7	beta-BHC	1	0.70		
319-86-8	delta-BHC	1	0.020	JP	J for 4
72-55-9	4,4'-DDE	1	0.025	J	for 4P
60-57-1	Dieldrin	1	0.18		
33213-65-9	Endosulfan II	1	0.051	P	J for 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	1.09	109	25 - 140	
DBC	1.00	1.49	149	30 - 135	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW14S-120806

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610655-02 File ID: 9LGA038-0

Sampled: 12/08/06 09:54 Prepared: 12/11/06 15:02 Analyzed: 12/13/06 05:45

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L11022 Sequence: BA00090 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.050	U	
58-89-9	gamma-BHC	1	0.050	U	
319-85-7	beta-BHC	1	0.050	U	
319-86-8	delta-BHC	1	0.050	U	
76-44-8	Heptachlor	1	0.050	U	
309-00-2	Aldrin	1	0.050	U	
NA	Chlordane-gamma	1	0.017	J	for RP
72-55-9	4,4'-DDE	1	0.050	U	
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.003	JP	J for RP U
72-20-8	Endrin	1	0.050	U	
72-54-8	4,4'-DDD	1	0.050	U	
33213-65-9	Endosulfan II	1	0.050	U	
50-29-3	4,4'-DDT	1	0.002	J	for RP U
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.050	U	
1031-07-8	Endosulfan sulfate	1	0.050	U	
53494-70-5	Endrin ketone	1	0.010	J	E for RP
8001-35-2	Toxaphene	1	1.0	U	
1024-57-3	Heptachlor epoxide	1	0.70	J	for RP
NA	Chlordane-alpha	1	0.013	~~JP~~	~~for RP~~ R for U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	1.41	141	25 - 140	*
DBC	1.00	1.74	174	30 - 135	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW16D-120506

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610567-01 File ID: 9LGA018-0

Sampled: 12/05/06 12:46 Prepared: 12/11/06 15:02 Analyzed: 12/13/06 00:07

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L11022 Sequence: BA00090 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.003	JP J for 4
76-44-8	Heptachlor	1	0.007	JP J for 4
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U J for cc
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U J for E
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.564	56	25 - 140	
DBC	1.00	0.587	59	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW16S-120506

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610567-02 File ID: 9LGA019-0

Sampled: 12/05/06 13:38 Prepared: 12/11/06 15:02 Analyzed: 12/13/06 00:33

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L11022 Sequence: BA00090 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.002	J J for P
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U J for E
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.552	55	25 - 140	
DBC	1.00	0.579	58	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW17D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-03	File ID:	9LGA020-0
Sampled:	12/05/06 14:41	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 00:59
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.050	U	
58-89-9	gamma-BHC	1	0.050	U	
319-85-7	beta-BHC	1	0.089		
76-44-8	Heptachlor	1	0.22		
309-00-2	Aldrin	1	0.050	U	
1024-57-3	Heptachlor epoxide	1	0.050	U	
72-55-9	4,4'-DDE	1	0.050	U	
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.050	U	
72-20-8	Endrin	1	0.050	U	
33213-65-9	Endosulfan II	1	0.050	U	
50-29-3	4,4'-DDT	1	0.050	U	
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.050	U	
1031-07-8	Endosulfan sulfate	1	0.005	J	for P
53494-70-5	Endrin ketone	1	0.050	UJ	for E
8001-35-2	Toxaphene	1	1.0	U	
319-86-8	delta-BHC	1	0.031	J	for P
NA	Chlordane-gamma	1	0.042	J	for P
NA	Chlordane-alpha	1	0.039	J	for P
50-29-3	4,4'-DDT	1	0.050	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.641	64	25 - 140	
DBC	1.00	0.674	67	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW17S-120506

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610567-04 File ID: 9LGA021-0

Sampled: 12/05/06 15:31 Prepared: 12/11/06 15:02 Analyzed: 12/13/06 01:25

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L11022 Sequence: BA00090 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.002	J	for P
58-89-9	gamma-BHC	1	0.050	U	
319-85-7	beta-BHC	1	0.050	U	
319-86-8	delta-BHC	1	0.032	J	for P
309-00-2	Aldrin	1	0.010	JP J	for 4
1024-57-3	Heptachlor epoxide	1	0.050	U	
NA	Chlordane-gamma	1	1.1		
959-98-8	Endosulfan I	1	0.077		
72-20-8	Endrin	1	0.005	JP R	for 4
33213-65-9	Endosulfan II	1	0.037	JP R	for 4
50-29-3	4,4'-DDT	1	0.015	J R	for 4
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.050	U	
53494-70-5	Endrin ketone	1	0.009	J	for Ep
8001-35-2	Toxaphene	1	1.0	U	
76-44-8	Heptachlor	1	0.004	JP R	for 4
NA	Chlordane-alpha	1	1.1	P	
72-55-9	4,4'-DDE	1	0.059	P	
60-57-1	Dieldrin	1	0.049	JP J	for 4
1031-07-8	Endosulfan sulfate	1	0.006	JP R	for 4

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.538	54	25 - 140	
DBC	1.00	0.631	63	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW17S-120506

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610567-04RE1	File ID:	9LHA015.D
Sampled:	12/05/06 15:31	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 18:41
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
72-54-8	4,4'-DDD	10	25	DE R for L4

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW19S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-05	File ID:	9LGA022-0
Sampled:	12/05/06 16:17	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 01:51
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.002	(J) UJ for U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	UJ for E
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.558	56	25 - 140	
DBC	1.00	0.638	64	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW23S-120506

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610567-06 File ID: 9LGA023-0

Sampled: 12/05/06 10:46 Prepared: 12/11/06 15:02 Analyzed: 12/13/06 02:17

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L11022 Sequence: BA00090 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.050	U	
58-89-9	gamma-BHC	1	0.050	U	
319-85-7	beta-BHC	1	0.050	U	
319-86-8	delta-BHC	1	0.050	U	
76-44-8	Heptachlor	1	0.050	U	
309-00-2	Aldrin	1	0.050	U	
1024-57-3	Heptachlor epoxide	1	0.050	U	
NA	Chlordane-gamma	1	0.050	U	
NA	Chlordane-alpha	1	0.050	U	
72-55-9	4,4'-DDE	1	0.050	U	
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.050	U	
72-20-8	Endrin	1	0.050	U	
72-54-8	4,4'-DDD	1	0.050	U	
33213-65-9	Endosulfan II	1	0.050	U	
50-29-3	4,4'-DDT	1	0.002	(J)	for P
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.050	U	
1031-07-8	Endosulfan sulfate	1	0.050	U	
53494-70-5	Endrin ketone	1	0.050	U J	for E
8001-35-2	Toxaphene	1	1.0	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.565	56	25 - 140	
DBC	1.00	0.642	64	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW24D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-07	File ID:	9LGA032-0
Sampled:	12/05/06 11:39	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 03:09
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.050	U	
58-89-9	gamma-BHC	1	0.050	U	
319-85-7	beta-BHC	1	0.050	U	
319-86-8	delta-BHC	1	0.050	U	
309-00-2	Aldrin	1	0.050	U	
1024-57-3	Heptachlor epoxide	1	0.050	U	
NA	Chlordane-gamma	1	0.050	U	
NA	Chlordane-alpha	1	0.050	U	
72-55-9	4,4'-DDE	1	0.050	U	
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.050	U	
72-20-8	Endrin	1	0.050	U	
72-54-8	4,4'-DDD	1	0.050	U	
33213-65-9	Endosulfan II	1	0.050	U	
50-29-3	4,4'-DDT	1	0.002	(J)	fr. P
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.050	U	
1031-07-8	Endosulfan sulfate	1	0.050	U	
53494-70-5	Endrin ketone	1	0.050	U J	fr. E
8001-35-2	Toxaphene	1	1.0	U	
76-44-8	Heptachlor	1	0.002	JP	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.569	57	25 - 140	
DBC	1.00	0.675	68	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW25S-120806

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B610655-03 File ID: 9LGA039-0

Sampled: 12/08/06 12:36 Prepared: 12/11/06 15:02 Analyzed: 12/13/06 06:11

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 6L11022 Sequence: BA00090 Calibration: 0612008 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-85-7	beta-BHC	1	1.8	
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.023	JP R for U
NA	Chlordane-gamma	1	0.036	JP for RU
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.012	~~JP~~ R for U
60-57-1	Dieldrin	1	0.050	U
72-20-8	Endrin	1	0.003	J UJ for RP U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.003	J for RPU
7421-93-4	Endrin aldehyde	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U J for E
8001-35-2	Toxaphene	1	1.0	U
NA	Chlordane-alpha	1	0.007	~~JP~~ R for RU
72-43-5	Methoxychlor	1	0.050	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	1.08	108	25 - 140	
DBC	1.00	1.40	140	30 - 135	*

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW25S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03RE1	File ID:	9LHA016-0
Sampled:	12/08/06 12:36	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 19:07
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	10	3.4	D
58-89-9	gamma-BHC	10	4.4	D
319-86-8	delta-BHC	10	3.6	D

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW26S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-04	File ID:	9LGA040-0
Sampled:	12/08/06 11:48	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 06:37
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
319-84-6	alpha-BHC	1	0.050	U	
58-89-9	gamma-BHC	1	0.050	U	
319-85-7	beta-BHC	1	0.050	U	
319-86-8	delta-BHC	1	0.050	U	
76-44-8	Heptachlor	1	0.050	U	
309-00-2	Aldrin	1	0.050	U	
1024-57-3	Heptachlor epoxide	1	0.050	U	
NA	Chlordane-gamma	1	0.050	U	
NA	Chlordane-alpha	1	0.050	U	
72-55-9	4,4'-DDE	1	0.050	U	
959-98-8	Endosulfan I	1	0.050	U	
60-57-1	Dieldrin	1	0.050	U	
72-20-8	Endrin	1	0.050	U	
72-54-8	4,4'-DDD	1	0.050	U	
33213-65-9	Endosulfan II	1	0.050	U	
50-29-3	4,4'-DDT	1	0.010	J	4, P
7421-93-4	Endrin aldehyde	1	0.050	U	
72-43-5	Methoxychlor	1	0.050	U	
1031-07-8	Endosulfan sulfate	1	0.050	U	
53494-70-5	Endrin ketone	1	0.050	U J	6, P2
8001-35-2	Toxaphene	1	1.0	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	1.12	112	25 - 140	
DBC	1.00	1.26	126	30 - 135	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW28S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-05	File ID:	9LGA042-0
Sampled:	12/08/06 10:44	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 07:29
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
319-84-6	alpha-BHC	1	0.050	U
58-89-9	gamma-BHC	1	0.050	U
319-85-7	beta-BHC	1	0.050	U
319-86-8	delta-BHC	1	0.050	U
76-44-8	Heptachlor	1	0.050	U
309-00-2	Aldrin	1	0.050	U
1024-57-3	Heptachlor epoxide	1	0.050	U
NA	Chlordane-gamma	1	0.050	U
NA	Chlordane-alpha	1	0.050	U
72-55-9	4,4'-DDE	1	0.050	U
959-98-8	Endosulfan I	1	0.050	U
60-57-1	Dieldrin	1	0.003	JP for RU
72-20-8	Endrin	1	0.050	U
72-54-8	4,4'-DDD	1	0.050	U
33213-65-9	Endosulfan II	1	0.050	U
50-29-3	4,4'-DDT	1	0.050	U
7421-93-4	Endrin aldehyde	1	0.050	U
72-43-5	Methoxychlor	1	0.050	U
1031-07-8	Endosulfan sulfate	1	0.050	U
53494-70-5	Endrin ketone	1	0.050	U for E
8001-35-2	Toxaphene	1	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	1.39	139	25 - 140	
DBC	1.00	1.69	169	30 - 135	*

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	JAX47-937MW4S-120106	B610566-01	NM	12/1/2006	12/11/2006	12/13/2006	10	2	12
M	UG/L	JAX47-937MW14D-12010	B610566-04RE1	NM	12/1/2006	12/11/2006	1/5/2007	10	25	35
M	UG/L	JAX47-937MW14D-12010	B610566-04	NM	12/1/2006	12/11/2006	12/13/2006	10	2	12
M	UG/L	JAX47-937MW11S-12010	B610566-03RE1	NM	12/1/2006	12/11/2006	1/5/2007	10	25	35
M	UG/L	JAX47-937MW11D-12010	B610566-02RE2	NM	12/1/2006	12/11/2006	1/5/2007	10	25	35
M	UG/L	JAX47-MW14S-120806	B610655-02	NM	12/8/2006	12/13/2006	12/20/2006	5	7	12
MF	UG/L	JAX47-937MW4S-120106	B610566-01RE1	NM	12/1/2006	12/11/2006	12/29/2006	10	18	28
MF	UG/L	JAX47-937MW4S-120106	B610566-01RE2	NM	12/1/2006	12/11/2006	1/3/2007	10	23	33
OS	%	JAX47-MW23S-120506	B610567-06	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	%	JAX47-MW17S-120506	B610567-04	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	%	JAX47-MW19S-120506	B610567-05	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	%	JAX47-MW28S-120806	B610655-05	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	%	JAX47-MW19S-120506	B610567-05	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	%	JAX47-MW17D-120506	B610567-03	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	%	JAX47-MW23S-120506	B610567-06	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	%	JAX47-MW17S-120506	B610567-04	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	%	JAX47-MW24D-120506	B610567-07	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	%	JAX47-MW24D-120506	B610567-07	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	JAX47-MW25S-120806	B610655-03	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	%	JAX47-MW25S-120806	B610655-03	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	%	JAX47-MW26S-120806	B610655-04	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	%	JAX47-MW28S-120806	B610655-05	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	%	JAX47-MW17D-120506	B610567-03	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	%	JAX47-937MW4S-120106	B610566-01	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	%	JAX47-MW26S-120806	B610655-04	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	%	JAX47-937MW11S-12010	B610566-03RE1	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	%	JAX47-937MW11D-12010	B610566-02	NM	12/1/2006	12/8/2006	12/13/2006	7	5	12
OS	%	JAX47-937MW11D-12010	B610566-02	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	%	JAX47-MW12S-120806	B610655-01	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	%	JAX47-937MW11S-12010	B610566-03	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	%	JAX47-MW16S-120506	B610567-02	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	%	JAX47-937MW14D-12010	B610566-04	NM	12/1/2006	12/8/2006	12/13/2006	7	5	12
OS	%	JAX47-937MW14D-12010	B610566-04	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	%	JAX47-MW16S-120506	B610567-02	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	%	JAX47-MW12S-120806	B610655-01	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	%	JAX47-MW14S-120806	B610655-02	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	JAX47-MW14S-120806	B610655-02	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	%	JAX47-MW16D-120506	B610567-01	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	%	JAX47-MW16D-120506	B610567-01	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	%	JAX47-937MW4S-120106	B610566-01	NM	12/1/2006	12/8/2006	12/13/2006	7	5	12
OS	%	JAX47-937MW11S-12010	B610566-03	NM	12/1/2006	12/8/2006	12/13/2006	7	5	12
OS	UG/L	JAX47-937MW14D-12010	B610566-04	NM	12/1/2006	12/8/2006	12/13/2006	7	5	12
OS	UG/L	JAX47-937MW11S-12010	B610566-03RE1	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	UG/L	JAX47-937MW11S-12010	B610566-03RE1	NM	12/1/2006	12/8/2006	12/14/2006	7	6	13
OS	UG/L	JAX47-937MW11S-12010	B610566-03	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	UG/L	JAX47-937MW11S-12010	B610566-03	NM	12/1/2006	12/8/2006	12/13/2006	7	5	12
OS	UG/L	JAX47-937MW11D-12010	B610566-02	NM	12/1/2006	12/8/2006	12/13/2006	7	5	12
OS	UG/L	JAX47-937MW4S-120106	B610566-01	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	UG/L	JAX47-937MW11D-12010	B610566-02	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	UG/L	JAX47-MW23S-120506	B610567-06	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	UG/L	JAX47-937MW14D-12010	B610566-04	NM	12/1/2006	12/8/2006	12/19/2006	7	11	18
OS	UG/L	JAX47-937MW4S-120106	B610566-01	NM	12/1/2006	12/8/2006	12/13/2006	7	5	12
OS	UG/L	JAX47-MW28S-120806	B610655-05	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	UG/L	JAX47-MW28S-120806	B610655-05	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	JAX47-MW26S-120806	B610655-04	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	UG/L	JAX47-MW26S-120806	B610655-04	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	UG/L	JAX47-MW25S-120806	B610655-03RE1	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	UG/L	JAX47-MW25S-120806	B610655-03	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	UG/L	JAX47-MW25S-120806	B610655-03	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	UG/L	JAX47-MW24D-120506	B610567-07	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	UG/L	JAX47-MW23S-120506	B610567-06	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	UG/L	JAX47-MW19S-120506	B610567-05	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	UG/L	JAX47-MW19S-120506	B610567-05	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	UG/L	JAX47-MW17S-120506	B610567-04RE1	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	UG/L	JAX47-MW14S-120806	B610655-02	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OS	UG/L	JAX47-937MW4S-120106	B610566-01RE1	NM	12/1/2006	12/8/2006	12/14/2006	7	6	13
OS	UG/L	JAX47-MW12S-120806	B610655-01	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	UG/L	JAX47-MW24D-120506	B610567-07	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	UG/L	JAX47-MW14S-120806	B610655-02	NM	12/8/2006	12/11/2006	12/13/2006	3	2	5
OS	UG/L	JAX47-MW17S-120506	B610567-04	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	UG/L	JAX47-MW16D-120506	B610567-01	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	UG/L	JAX47-MW16D-120506	B610567-01	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	JAX47-MW16S-120506	B610567-02	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	UG/L	JAX47-MW16S-120506	B610567-02	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	UG/L	JAX47-MW17D-120506	B610567-03	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	UG/L	JAX47-MW17D-120506	B610567-03	NM	12/5/2006	12/12/2006	12/17/2006	7	5	12
OS	UG/L	JAX47-MW17S-120506	B610567-04	NM	12/5/2006	12/11/2006	12/13/2006	6	2	8
OS	UG/L	JAX47-MW12S-120806	B610655-01	NM	12/8/2006	12/12/2006	12/17/2006	4	5	9
OV	%	JAX47-MW17D-120506	B610567-03RE1	NM	12/5/2006	12/8/2006	12/11/2006	3	3	6
OV	%	JAX47-937MW14D-12010	B610566-04	NM	12/1/2006	12/8/2006	12/8/2006	7	0	7
OV	%	JAX47-MW26S-120806	B610655-04	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4
OV	%	JAX47-MW25S-120806	B610655-03	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4
OV	%	JAX47-MW24D-120506	B610567-07	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	%	JAX47-MW28S-120806	B610655-05	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4
OV	%	JAX47-MW23S-120506	B610567-06	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	%	JAX47-MW19S-120506	B610567-05	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	%	JAX47-MW17S-120506	B610567-04	NM	12/5/2006	12/8/2006	12/11/2006	3	3	6
OV	%	JAX47-MW16S-120506	B610567-02	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	%	JAX47-MW16D-120506	B610567-01	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	%	JAX47-MW14S-120806	B610655-02	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	JAX47-MW12S-120806	B610655-01	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4
OV	%	JAX47-937MW4S-120106	B610566-01	NM	12/1/2006	12/8/2006	12/8/2006	7	0	7
OV	%	JAX47-937MW11S-12010	B610566-03	NM	12/1/2006	12/8/2006	12/8/2006	7	0	7
OV	%	JAX47-937MW11D-12010	B610566-02	NM	12/1/2006	12/8/2006	12/9/2006	7	1	8
OV	%	JAX47-937MW4S-120106	B610566-01RE1	NM	12/1/2006	12/8/2006	12/9/2006	7	1	8
OV	%	JAX47-MW17D-120506	B610567-03	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	UG/L	JAX47-MW26S-120806	B610655-04	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4
OV	UG/L	JAX47-MW17D-120506	B610567-03RE1	NM	12/5/2006	12/8/2006	12/11/2006	3	3	6
OV	UG/L	JAX47-MW17S-120506	B610567-04	NM	12/5/2006	12/8/2006	12/11/2006	3	3	6
OV	UG/L	JAX47-MW19S-120506	B610567-05	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	UG/L	JAX47-MW23S-120506	B610567-06	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	UG/L	JAX47-MW17D-120506	B610567-03	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	UG/L	JAX47-MW25S-120806	B610655-03	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4
OV	UG/L	JAX47-937MW4S-120106	B610566-01	NM	12/1/2006	12/8/2006	12/8/2006	7	0	7
OV	UG/L	JAX47-MW24D-120506	B610567-07	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	UG/L	JAX47-MW16S-120506	B610567-02	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	UG/L	JAX47-MW16D-120506	B610567-01	NM	12/5/2006	12/8/2006	12/8/2006	3	0	3
OV	UG/L	JAX47-MW14S-120806	B610655-02	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	JAX47-937MW4S-120106	B610566-01RE1	NM	12/1/2006	12/8/2006	12/9/2006	7	1	8
OV	UG/L	JAX47-937MW14D-12010	B610566-04	NM	12/1/2006	12/8/2006	12/8/2006	7	0	7
OV	UG/L	JAX47-937MW11S-12010	B610566-03	NM	12/1/2006	12/8/2006	12/8/2006	7	0	7
OV	UG/L	JAX47-937MW11D-12010	B610566-02	NM	12/1/2006	12/8/2006	12/9/2006	7	1	8
OV	UG/L	JAX47-MW28S-120806	B610655-05	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4
OV	UG/L	JAX47-MW12S-120806	B610655-01	NM	12/8/2006	12/12/2006	12/12/2006	4	0	4

Volatiles

Method: The samples were analyzed by USEPA Method 8260B (VOA vial field sampling followed by purge and trap then capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The Matrix Spike and Matrix Spike Duplicate had several compounds that were outside the DoD QSM control limits. Data was accepted based on an acceptable Laboratory Control Standard and precision data.
- Laboratory Control Standard was outside the DoD QSM control limits for Bromodichloromethane but was within the DoD QSM marginal exceedance limits.
- Several compounds did not meet the specified control limits for the Continuing Calibration Check Standard. Data was accepted on criteria that all CCC and SPCC compounds passed.

Metals

Method: The samples were extracted by USEPA Method 3050 and analyzed by EPA Method 6010 for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The dissolved Arsenic result for JAX47-937MW4S-120106 was higher than the total Arsenic result. Sample was re-prepped and re-analyzed producing similar results. Both sets of data were reported.

Semi-volatiles

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8270c for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, the MS/MSD was performed on an alternative sample not related to this project.
- The surrogate 2,4,6-Tribromophenol for JAX47-MW12S-120806 was outside the DoD QSM control limits. All the remaining surrogates were with the acceptable limit and data was accepted.
- Several compounds did not meet the specified control limits for the Continuing Calibration Check Standard. Data was accepted on criteria that all CCC and SPCC compounds passed.
- Laboratory Control Standard, Matrix Spike and Matrix Spike Duplicate exceeded DoD QSM control limits for several compounds. The associated samples were clean for those compounds, therefore data was accepted.

Method: The samples were extracted/analyze by USEPA SW-846 Methods 3545/8081c for soils upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, the MS/MSD was performed on an alternative sample not related to this project.
- Laboratory Control Standard, Matrix Spike and Matrix Spike Duplicate for Endrin Ketone was outside the DoD QSM control limits but was within DoD QSM marginal exceedance limits.
- The surrogate DBC was outside DoD QSM control limits for the following samples: JAX47-MW12S-120806, JAX47-MW25S-120806, JAX47-MW28S-120806. The surrogate 2,4,5,6-TCMX was within the DoD QSM control limits therefore data was accepted.
- JAX47-MW14S-120806 surrogate recovery for DBC was outside the DoD QSM control limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.15 10:14:50 -05'00'

Christina M. Tompkins
Project Manager

B6105666

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1262006-3

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216**
Task No: **CTO 0047**	Turn Around Time: **Standard**	Field Ops Leader: **Charles Metz**	Carrier/Waybill No.	Point of Contact: **Lab Contact 904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Req	Comments
12/01/2006	JAX47-937MW4S-120106	11:30	**SW-846 8081A and 8270C Extended**	JAX-47-937MW4S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-937MW4S-120106	11:30	**SW-846 6010B or 6020 (filtered)**	JAX-47-937MW4S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-937MW4S-120106	11:30	**SW-846 6010B or 6020**	JAX-47-937MW4S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-937MW4S-120106	11:30	**SW-846 8260B Extended**	JAX-47-937MW4S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW11D-120106	16:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW11D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
12/01/2006	JAX47-MW11D-120106	16:15	**SW-846 6010B or 6020**	JAX-47-MW11D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW11D-120106	16:15	**SW-846 8260B Extended**	JAX-47-MW11D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW11S-120106	15:00	**SW-846 6010B or 6020**	JAX-47-MW11S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW11S-120106	15:00	**SW-846 8081A and 8270C Extended**	JAX-47-MW11S	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
12/01/2006	JAX47-MW11S-120106	15:00	**SW-846 8260B Extended**	JAX-47-MW11S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW14D-120106	10:15	**SW-846 6010B or 6020**	JAX-47-MW14D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW14D-120106	10:15	**SW-846 8081A and 8270C Extended**	JAX-47-MW14D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
12/01/2006	JAX47-MW14D-120106	10:15	**SW-846 8260B Extended**	JAX-47-MW14D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	

1. Relinquished By: **Charles Metz**	Date: 12/06/2006	Time: ~~08:16~~ 10:50	Received By: **Hand Deliver**	Date: 12/06/2006	Time: ~~09:15~~ 1050
2. Relinquished By:	Date:	Time:	Received By:	Date: 12/5/06	Time: 1050
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

B6105567

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1262006-4

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Petareon**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
12/05/2006	JAX47-MW16D-120506	12:46	**SW-846 8260B Extended**	JAX-47-MW16D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW16D-120506	12:46	**SW-846 8081A and 8270C Extended**	JAX-47-MW16D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW16D-120506	12:46	**SW-846 6010B or 6020**	JAX-47-MW16D	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW16S-120506	13:38	**SW-846 6010B or 6020**	JAX-47-MW16S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW16S-120506	13:38	**SW-846 8260B Extended**	JAX-47-MW16S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW16S-120506	13:38	**SW-846 8081A and 8270C Extended**	JAX-47-MW16S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW17D-120506	14:41	**SW-846 8081A and 8270C Extended**	JAX-47-MW17D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW17D-120506	14:41	**SW-846 8260B Extended**	JAX-47-MW17D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW17D-120506	14:41	**SW-846 6010B or 6020**	JAX-47-MW17D	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW17S-120506	15:31	**SW-846 6010B or 6020**	JAX-47-MW17S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW17S-120506	15:31	**SW-846 8260B Extended**	JAX-47-MW17S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW17S-120506	15:31	**SW-846 8081A and 8270C Extended**	JAX-47-MW17S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW19S-120506	16:17	**SW-846 8260B Extended**	JAX-47-MW19S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW19S-120506	16:17	**SW-846 8081A and 8270C Extended**	JAX-47-MW19S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW19S-120506	16:17	**SW-846 6010B or 6020**	JAX-47-MW19S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW23S-120506	10:46	**SW-846 8260B Extended**	JAX-47-MW23S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW23S-120506	10:46	**SW-846 8081A and 8270C Extended**	JAX-47-MW23S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW23S-120506	10:46	**SW-846 6010B or 6020**	JAX-47-MW23S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW24D-120506	11:39	**SW-846 6010B or 6020**	JAX-47-MW24D	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW24D-120506	11:39	**SW-846 8081A and 8270C Extended**	JAX-47-MW24D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW24D-120506	11:39	**SW-846 8260B Extended**	JAX-47-MW24D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	

1. Relinquished By: **Charles Metz**	Date: 12/06/2006	Time: ~~14:00~~ 1422	Received By: **Hand Deliver**	Date: 12/06/2006	Time: ~~14:00~~ 14:22
2. Relinquished By:	Date:	Time:	Received By: G Baker	Date: 12/6/06	Time: 1422
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

B6106655

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1282006-5

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
12/08/2006	JAX47-MW12S-120806	13:32	**SW-846 8081A and 8270C Extended**	JAX-47-MW12S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW12S-120806	13:32	**SW-846 6010B or 6020**	JAX-47-MW12S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW12S-120806	13:32	**SW-846 8260B Extended**	JAX-47-MW12S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW14S-120806	09:54	**SW-846 6010B or 6020**	JAX-47-MW14S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW14S-120806	09:54	**SW-846 8260B Extended**	JAX-47-MW14S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW14S-120806	09:54	**SW-846 6010B or 6020 (filtered)**	JAX-47-MW14S	GW	Arsenic (filtered)	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW14S-120806	09:54	**SW-846 8081A and 8270C Extended**	JAX-47-MW14S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW25S-120806	12:36	**SW-846 6010B or 6020**	JAX-47-MW25S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW25S-120806	12:36	**SW-846 8081A and 8270C Extended**	JAX-47-MW25S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW25S-120806	12:36	**SW-846 8260B Extended**	JAX-47-MW25S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW26S-120806	11:48	**SW-846 6010B or 6020**	JAX-47-MW26S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW26S-120806	11:48	**SW-846 8081A and 8270C Extended**	JAX-47-MW26S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW26S-120806	11:48	**SW-846 8260B Extended**	JAX-47-MW26S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW28S-120806	10:44	**SW-846 8081A and 8270C Extended**	JAX-47-MW28S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW28S-120806	10:44	**SW-846 8260B Extended**	JAX-47-MW28S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW28S-120806	10:44	**SW-846 6010B or 6020**	JAX-47-MW28S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW28S-120806	10:44	**SW-846 6010B or 6020 (filtered)**	JAX-47-MW28S	GW	Arsenic (filtered)	4°C/HNO3	1	Plastic	250ml PE	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Terry Cottenoir	12/08/2006	15:45	**Hand Deliver**	12/08/2006	15:45
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
				12/8/06	15:50

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-014

Lab Sample ID	Client Sample ID
B610566-01	JAX47-937MW4S-120106
B610566-02	JAX47-937MW11D-120106
B610566-03	JAX47-937MW11S-120106
B610566-04	JAX47-937MW14D-120106
B610567-01	JAX47-MW16D-120506
B610567-02	JAX47-MW16S-120506
B610567-03	JAX47-MW17D-120506
B610567-04	JAX47-MW17S-120506
B610567-05	JAX47-MW19S-120506
B610567-06	JAX47-MW23S-120506
B610567-07	JAX47-MW24D-120506
B610655-01	JAX47-MW12S-120806
B610655-02	JAX47-MW14S-120806
B610655-03	JAX47-MW25S-120806
B610655-04	JAX47-MW26S-120806
B610655-05	JAX47-MW28S-120806

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260B

Laboratory: ENCO Jacksonville

SDG: BR006-014

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-937MW4S-120106	B610566-01
JAX47-937MW4S-120106	B610566-01RE1
JAX47-937MW11D-120106	B610566-02
JAX47-937MW11S-120106	B610566-03
JAX47-937MW14D-120106	B610566-04
JAX47-MW16D-120506	B610567-01
JAX47-MW16S-120506	B610567-02
JAX47-MW17D-120506	B610567-03
JAX47-MW17D-120506	B610567-03RE1
JAX47-MW17S-120506	B610567-04
JAX47-MW19S-120506	B610567-05
JAX47-MW23S-120506	B610567-06
JAX47-MW24D-120506	B610567-07
JAX47-MW12S-120806	B610655-01
JAX47-MW14S-120806	B610655-02
JAX47-MW25S-120806	B610655-03
JAX47-MW26S-120806	B610655-04
JAX47-MW28S-120806	B610655-05

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.15 10:17:06 -05'00'

Name: Christina Tompkins

Date: 01/12/07

Title: Project Manager

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270C

Laboratory: ENCO Jacksonville

SDG: BR006-014

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-937MW4S-120106	B610566-01
JAX47-937MW11D-120106	B610566-02
JAX47-937MW11S-120106	B610566-03
JAX47-937MW11S-120106	B610566-03RE1
JAX47-937MW14D-120106	B610566-04
JAX47-MW16D-120506	B610567-01
JAX47-MW16S-120506	B610567-02
JAX47-MW17D-120506	B610567-03
JAX47-MW17S-120506	B610567-04
JAX47-MW19S-120506	B610567-05
JAX47-MW23S-120506	B610567-06
JAX47-MW24D-120506	B610567-07
JAX47-MW12S-120806	B610655-01
JAX47-MW14S-120806	B610655-02
JAX47-MW25S-120806	B610655-03
JAX47-MW26S-120806	B610655-04
JAX47-MW28S-120806	B610655-05

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.01.15 10:56:25 -05'00'

Name: Christina Tompkins

Date: 01/12/07

Title: Project Manager

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-937MW4S-120106	B610566-01
JAX47-937MW4S-120106	B610566-01RE1
JAX47-937MW11D-120106	B610566-02
JAX47-937MW11S-120106	B610566-03
JAX47-937MW11S-120106	B610566-03RE1
JAX47-937MW14D-120106	B610566-04
JAX47-MW16D-120506	B610567-01
JAX47-MW16S-120506	B610567-02
JAX47-MW17D-120506	B610567-03
JAX47-MW17S-120506	B610567-04
JAX47-MW17S-120506	B610567-04RE1
JAX47-MW19S-120506	B610567-05
JAX47-MW23S-120506	B610567-06
JAX47-MW24D-120506	B610567-07
JAX47-MW12S-120806	B610655-01
JAX47-MW14S-120806	B610655-02
JAX47-MW25S-120806	B610655-03
JAX47-MW25S-120806	B610655-03RE1
JAX47-MW26S-120806	B610655-04
JAX47-MW28S-120806	B610655-05

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins | Name: Christina Tompkins

Date: 01/12/07 | Title: Project Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8260B

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JVGCMS1

Analyte	MDL	MRL	Units
Dichlorodifluoromethane	0.300	1	ug/L
Chloromethane	0.300	1	ug/L
Vinyl chloride	0.400	1	ug/L
Bromomethane	0.600	1	ug/L
Chloroethane	0.300	1	ug/L
Trichlorofluoromethane	0.300	1	ug/L
1,1-Dichloroethene	0.200	1	ug/L
Acetone	2	5	ug/L
Carbon disulfide	0.900	5	ug/L
Methylene Chloride	2	2	ug/L
Methyl-tert-Butyl Ether	0.200	1	ug/L
trans-1,2-Dichloroethene	0.200	1	ug/L
1,1-Dichloroethane	0.200	1	ug/L
2-Butanone	2	5	ug/L
cis-1,2-Dichloroethene	0.200	1	ug/L
Chloroform	0.200	1	ug/L
1,1,1-Trichloroethane	0.300	1	ug/L
Carbon Tetrachloride	0.300	1	ug/L
1,2-Dichloroethane	0.100	1	ug/L
Benzene	0.200	1	ug/L
Trichloroethene	0.300	1	ug/L
1,2-Dichloropropane	0.400	1	ug/L
Bromodichloromethane	0.200	0.400	ug/L
cis-1,3-Dichloropropene	0.100	0.200	ug/L
4-Methyl-2-pentanone	2	5	ug/L
Toluene	0.200	1	ug/L
trans-1,3-Dichloropropene	0.200	0.200	ug/L
1,1,2-Trichloroethane	0.300	1	ug/L
Tetrachloroethene	0.300	1	ug/L
2-Hexanone	0.600	5	ug/L
Dibromochloromethane	0.200	0.200	ug/L
1,2-Dibromoethane	0.100	1	ug/L
Chlorobenzene	0.200	1	ug/L
Ethylbenzene	0.300	1	ug/L
m,p-Xylenes	0.300	2	ug/L
o-Xylene	0.200	1	ug/L
Styrene	0.100	1	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260B

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JVGCMS1

Analyte	MDL	MRL	Units
Bromoform	0.200	1	ug/L
Isopropylbenzene	0.100	1	ug/L
1,1,2,2-Tetrachloroethane	0.200	0.200	ug/L
1,3-Dichlorobenzene	0.200	1	ug/L
1,4-Dichlorobenzene	0.100	1	ug/L
1,2-Dichlorobenzene	0.200	1	ug/L
1,2-Dibromo-3-chloropropane	0.300	1	ug/L
1,2,4-Trichlorobenzene	0.100	1	ug/L
Freon 113	0.580	1	ug/L
Xylenes (Total)	0.300	1	ug/L
Cyclohexane	0.450	1	ug/L
Diethyl ether	0.540	1	ug/L
Methyl acetate	0.510	1	ug/L
Methyl cyclohexane	0.550	1	ug/L

METHOD DETECTION AND REPORTING LIMITS
EPA 8270C

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCMS1

Analyte	MDL	MRL	Units
Phenol	2	10.0	ug/L
Bis(2-chloroethyl)ether	3	10.0	ug/L
2-Chlorophenol	3	10.0	ug/L
2-Methylphenol	2	10.0	ug/L
Bis(2-chloroisopropyl)ether	4	10.0	ug/L
3 & 4-Methylphenol	2	10.0	ug/L
N-Nitroso-di-n-propylamine	3	10.0	ug/L
Hexachloroethane	3	10.0	ug/L
Nitrobenzene	4	10.0	ug/L
Isophorone	3	10.0	ug/L
2-Nitrophenol	3	10.0	ug/L
2,4-Dimethylphenol	2	10.0	ug/L
Bis(2-chloroethoxy)methane	3	10.0	ug/L
2,4-Dichlorophenol	2	10.0	ug/L
Naphthalene	3	10.0	ug/L
4-Chloroaniline	2	10.0	ug/L
Hexachlorobutadiene	3	10.0	ug/L
4-Chloro-3-methylphenol	1	10.0	ug/L
2-Methylnaphthalene	2	10.0	ug/L
Hexachlorocyclopentadiene	2	10.0	ug/L
2,4,6-Trichlorophenol	2	10.0	ug/L
2,4,5-Trichlorophenol	2	10.0	ug/L
2-Chloronaphthalene	2	10.0	ug/L
2-Nitroaniline	2	10.0	ug/L
Dimethylphthalate	1	10.0	ug/L
2,6-Dinitrotoluene	2	10.0	ug/L
Acenaphthylene	2	10.0	ug/L
3-Nitroaniline	0.930	10.0	ug/L
Acenaphthene	2	10.0	ug/L
2,4-Dinitrophenol	1	10.0	ug/L
4-Nitrophenol	1	10.0	ug/L
Dibenzofuran	2	10.0	ug/L
2,4-Dinitrotoluene	2	10.0	ug/L
Diethylphthalate	2	10.0	ug/L
4-Chlorophenyl-phenylether	2	10.0	ug/L
Fluorene	1	10.0	ug/L
4-Nitroaniline	2	10.0	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8270C

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCMS1

Analyte	MDL	MRL	Units
2-Methyl-4,6-dinitrophenol	0.970	10.0	ug/L
N-Nitrosodiphenylamine	2	10.0	ug/L
4-Bromophenyl-phenylether	2	10.0	ug/L
Hexachlorobenzene	2	10.0	ug/L
Pentachlorophenol	1	10.0	ug/L
Phenanthrene	1	10.0	ug/L
Anthracene	1	10.0	ug/L
Carbazole	1	10.0	ug/L
Di-n-butylphthalate	1	10.0	ug/L
Fluoranthene	2	10.0	ug/L
Pyrene	2	10.0	ug/L
Butylbenzylphthalate	1	10.0	ug/L
3,3'-Dichlorobenzidine	2	10.0	ug/L
Benzo(a)anthracene	1	10.0	ug/L
Bis(2-ethylhexyl)phthalate	2	10.0	ug/L
Chrysene	2	10.0	ug/L
Di-n-octylphthalate	2	10.0	ug/L
Benzo(b)fluoranthene	2	10.0	ug/L
Benzo(k)fluoranthene	1	10.0	ug/L
Benzo(a)pyrene	1	10.0	ug/L
Indeno(1,2,3-cd)pyrene	3	10.0	ug/L
Dibenzo(a,h)anthracene	3	10.0	ug/L
Benzo(g,h,i)perylene	3	10.0	ug/L
Acetophenone	2	10.0	ug/L
1,1'-Biphenyl	3	10.0	ug/L
Atrazine	1	10.0	ug/L
Benzaldehyde	3	10.0	ug/L
Caprolactam	2	10.0	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
alpha-BHC	0.001	0.05	ug/L
gamma-BHC	0.002	0.05	ug/L
beta-BHC	0.002	0.05	ug/L
delta-BHC	0.001	0.05	ug/L
Heptachlor	0.001	0.05	ug/L
Aldrin	0.002	0.05	ug/L
Heptachlor epoxide	0.001	0.05	ug/L
Chlordane-gamma	0.001	0.05	ug/L
Chlordane-alpha	0.001	0.05	ug/L
4,4′-DDE	0.002	0.05	ug/L
Endosulfan I	0.002	0.05	ug/L
Dieldrin	0.0008	0.05	ug/L
Endrin	0.002	0.05	ug/L
4,4′-DDD	0.0004	0.05	ug/L
Endosulfan II	0.002	0.05	ug/L
4,4′-DDT	0.002	0.05	ug/L
Endrin aldehyde	0.009	0.05	ug/L
Methoxychlor	0.003	0.05	ug/L
Endosulfan sulfate	0.002	0.05	ug/L
Endrin ketone	0.003	0.05	ug/L
Toxaphene	0.05	0.05	ug/L
alpha-BHC [2C]	0.001	0.05	ug/L
gamma-BHC [2C]	0.002	0.05	ug/L
beta-BHC [2C]	0.002	0.05	ug/L
delta-BHC [2C]	0.001	0.05	ug/L
Heptachlor [2C]	0.001	0.05	ug/L
Aldrin [2C]	0.002	0.05	ug/L
Heptachlor epoxide [2C]	0.001	0.05	ug/L
Chlordane-gamma [2C]	0.001	0.05	ug/L
Chlordane-alpha [2C]	0.001	0.05	ug/L
4,4'-DDE [2C]	0.002	0.05	ug/L
Endosulfan I [2C]	0.002	0.05	ug/L
Dieldrin [2C]	0.0008	0.05	ug/L
Endrin [2C]	0.002	0.05	ug/L
4,4'-DDD [2C]	0.0004	0.05	ug/L
Endosulfan II [2C]	0.002	0.05	ug/L
4,4'-DDT [2C]	0.002	0.05	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8081A

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JSVGCECD2

Analyte	MDL	MRL	Units
Endrin aldehyde [2C]	0.009	0.05	ug/L
Methoxychlor [2C]	0.003	0.05	ug/L
Endosulfan sulfate [2C]	0.002	0.05	ug/L
Endrin ketone [2C]	0.003	0.05	ug/L
Chlordane (tech) [2C]	0.01	0.01	ug/L
Toxaphene [2C]	0.05	0.05	ug/L

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08023 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L08023-BLK1	7LD007.D	12/08/06 09:00	
Blank	6L08023-BLK2	7LD030.D	12/08/06 09:00	
Blank	6L08023-BLK3	7LF004.D	12/09/06 09:00	
LCS	6L08023-BS1	7LD009.D	12/08/06 09:00	
MW-8	6L08023-MS1	7LD010.D	12/08/06 09:00	
MW-8	6L08023-MSD1	7LD011.D	12/08/06 09:00	
JAX47-937MW4S-120106	B610566-01	7LD014.D	12/08/06 09:00	
JAX47-937MW4S-120106	B610566-01RE1	7LD031.D	12/08/06 09:00	Added 12/21/2006 by DS
JAX47-937MW11D-120106	B610566-02	7LD032.D	12/08/06 09:00	
JAX47-937MW11S-120106	B610566-03	7LD016.D	12/08/06 09:00	
JAX47-937MW14D-120106	B610566-04	7LD017.D	12/08/06 09:00	
JAX47-MW16D-120506	B610567-01	7LD018.D	12/08/06 09:00	
JAX47-MW16S-120506	B610567-02	7LD019.D	12/08/06 09:00	
JAX47-MW17D-120506	B610567-03	7LD020.D	12/08/06 09:00	
JAX47-MW17D-120506	B610567-03RE1	7LF006.D	12/08/06 09:00	Added 12/21/2006 by DS
JAX47-MW17S-120506	B610567-04	7LF005.D	12/08/06 09:00	
JAX47-MW19S-120506	B610567-05	7LD022.D	12/08/06 09:00	
JAX47-MW23S-120506	B610567-06	7LD023.D	12/08/06 09:00	
JAX47-MW24D-120506	B610567-07	7LD024.D	12/08/06 09:00	

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L12026 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L12026-BLK1	7LG004.D	12/12/06 09:00	
LCS	6L12026-BS1	7LG005.D	12/12/06 09:00	
MW-10	6L12026-MS1	7LG006.D	12/12/06 09:00	
MW-10	6L12026-MSD1	7LG007.D	12/12/06 09:00	
JAX47-MW12S-120806	B610655-01	7LG010.D	12/12/06 09:00	
JAX47-MW14S-120806	B610655-02	7LG011.D	12/12/06 09:00	
JAX47-MW25S-120806	B610655-03	7LG012.D	12/12/06 09:00	
JAX47-MW26S-120806	B610655-04	7LG013.D	12/12/06 09:00	
JAX47-MW28S-120806	B610655-05	7LG014.D	12/12/06 09:00	

PREPARATION BATCH SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08004 Batch Matrix: Water Preparation: EPA 3510C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L08004-BLK1	5LM022.D	12/08/06 11:14	
LCS	6L08004-BS1	5LM023.D	12/08/06 11:14	
MW-1	6L08004-MS1	5LM024.D	12/08/06 11:14	
MW-1	6L08004-MSD1	5LM025.D	12/08/06 11:14	
JAX47-937MW4S-120106	B610566-01	5LM027.D	12/08/06 11:14	
JAX47-937MW11D-120106	B610566-02	5LM028.D	12/08/06 11:14	
JAX47-937MW11S-120106	B610566-03	5LM029.D	12/08/06 11:14	
JAX47-937MW11S-120106	B610566-03RE1	5LN011.D	12/08/06 11:14	d10
JAX47-937MW14D-120106	B610566-04	5LM030.D	12/08/06 11:14	

PREPARATION BATCH SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L12004 Batch Matrix: Water Preparation: EPA 3510C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L12004-BLK1	5LL005.D	12/12/06 07:55	
LCS	6L12004-BS1	5LL006.D	12/12/06 07:55	
MW-1	6L12004-MS1	5LL007.D	12/12/06 07:55	
MW-1	6L12004-MSD1	5LL026.D	12/12/06 07:55	
JAX47-MW16D-120506	B610567-01	5LL013.D	12/12/06 07:55	
JAX47-MW16S-120506	B610567-02	5LL014.D	12/12/06 07:55	
JAX47-MW17D-120506	B610567-03	5LL015.D	12/12/06 07:55	
JAX47-MW17S-120506	B610567-04	5LL016.D	12/12/06 07:55	
JAX47-MW19S-120506	B610567-05	5LL017.D	12/12/06 07:55	
JAX47-MW23S-120506	B610567-06	5LL018.D	12/12/06 07:55	
JAX47-MW24D-120506	B610567-07	5LL019.D	12/12/06 07:55	
JAX47-MW12S-120806	B610655-01	5LL020.D	12/12/06 07:55	
JAX47-MW14S-120806	B610655-02	5LL021.D	12/12/06 07:55	
JAX47-MW25S-120806	B610655-03	5LL022.D	12/12/06 07:55	
JAX47-MW26S-120806	B610655-04	5LL023.D	12/12/06 07:55	
JAX47-MW28S-120806	B610655-05	5LL024.D	12/12/06 07:55	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L08003 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L08003-BLK1	9LHB004-0	12/08/06 11:09	
Blank	6L08003-BLK1	9LHA004-0	12/08/06 11:09	
LCS	6L08003-BS1	9LHB005-0	12/08/06 11:09	
LCS	6L08003-BS1	9LHA005-0	12/08/06 11:09	
MW-1	6L08003-MS1	9LHB006-0	12/08/06 11:09	
MW-1	6L08003-MS1	9LHA006-0	12/08/06 11:09	
MW-1	6L08003-MSD1	9LHB007-0	12/08/06 11:09	
MW-1	6L08003-MSD1	9LHA007-0	12/08/06 11:09	
JAX47-937MW4S-120106	B610566-01	9LHA010-0	12/08/06 11:09	
JAX47-937MW4S-120106	B610566-01	9LHB010-0	12/08/06 11:09	
JAX47-937MW4S-120106	B610566-01RE1	9LIA010-0	12/08/06 11:09	Added 12/14/06 by JBH
JAX47-937MW4S-120106	B610566-01RE1	9LIB010-0	12/08/06 11:09	Added 12/14/06 by JBH
JAX47-937MW11D-120106	B610566-02	9LHA011-0	12/08/06 11:09	
JAX47-937MW11D-120106	B610566-02	9LHB011-0	12/08/06 11:09	
JAX47-937MW11S-120106	B610566-03	9LHB012-0	12/08/06 11:09	
JAX47-937MW11S-120106	B610566-03	9LHA012-0	12/08/06 11:09	
JAX47-937MW11S-120106	B610566-03RE1	9LIB011-0	12/08/06 11:09	Added 12/14/06 by JBH
JAX47-937MW11S-120106	B610566-03RE1	9LIA011-0	12/08/06 11:09	Added 12/14/06 by JBH
JAX47-937MW14D-120106	B610566-04	9LHB013-0	12/08/06 11:09	
JAX47-937MW14D-120106	B610566-04	9LHA013-0	12/08/06 11:09	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00115	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00115-TUN1	7LD001.D	12/08/06 09:34
Calibration Check	BA00115-CCV1	7LD002.D	12/08/06 10:04
Blank	6L08023-BLK1	7LD007.D	12/08/06 12:38
LCS	6L08023-BS1	7LD009.D	12/08/06 13:40
MW-8	6L08023-MS1	7LD010.D	12/08/06 14:10
MW-8	6L08023-MSD1	7LD011.D	12/08/06 14:41
JAX47-937MW4S-120106	B610566-01	7LD014.D	12/08/06 16:13
JAX47-937MW11S-120106	B610566-03	7LD016.D	12/08/06 17:15
JAX47-937MW14D-120106	B610566-04	7LD017.D	12/08/06 17:45
JAX47-MW16D-120506	B610567-01	7LD018.D	12/08/06 18:16
JAX47-MW16S-120506	B610567-02	7LD019.D	12/08/06 18:47
JAX47-MW17D-120506	B610567-03	7LD020.D	12/08/06 19:17
JAX47-MW19S-120506	B610567-05	7LD022.D	12/08/06 20:19
JAX47-MW23S-120506	B610567-06	7LD023.D	12/08/06 20:50
JAX47-MW24D-120506	B610567-07	7LD024.D	12/08/06 21:20
MS Tune	BA00115-TUN2	7LD026.D	12/08/06 22:21
Calibration Check	BA00115-CCV2	7LD027.D	12/08/06 22:52
Blank	6L08023-BLK2	7LD030.D	12/09/06 00:24
JAX47-937MW4S-120106	B610566-01RE1	7LD031.D	12/09/06 00:55
JAX47-937MW11D-120106	B610566-02	7LD032.D	12/09/06 01:25
MS Tune	BA00115-TUN3	7LF001.D	12/11/06 16:22
Calibration Check	BA00115-CCV3	7LF002.D	12/11/06 16:53
Blank	6L08023-BLK3	7LF004.D	12/11/06 17:55
JAX47-MW17S-120506	B610567-04	7LF005.D	12/11/06 18:25
JAX47-MW17D-120506	B610567-03RE1	7LF006.D	12/11/06 18:56

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LD002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00115	Injection Date:	12/08/06
Lab Sample ID:	BA00115-CCV1	Injection Time:	10:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	40.5	0.4891056	0.395873		-19.1	
Chloromethane	A	50.0	45.9	0.9655093	0.886296	0.1	-8.2	
Vinyl chloride	A	50.0	46.6	0.8395935	0.782227		-6.8	15
Bromomethane	L	50.0	58.2	0.6725491	0.549772		16.3	15 *
Chloroethane	A	50.0	48.3	0.6032704	0.583051		-3.4	
Trichlorofluoromethane	A	50.0	45.8	0.9226812	0.844294		-8.5	
1,1-Dichloroethene	A	50.0	41.6	0.685872	0.570119		-16.9	15 *
Acetone	A	250	207	0.2787158	0.230639		-17.2	
Carbon disulfide	A	250	222	2.811647	2.50017		-11.1	
Methylene Chloride	L	50.0	46.9	1.008004	0.836453		-6.1	
Methyl-tert-Butyl Ether	A	50.0	42.6	2.081972	1.77298		-14.8	
trans-1,2-Dichloroethene	A	50.0	45.6	0.7836962	0.71497		-8.8	
1,1-Dichloroethane	A	50.0	44.3	1.563742	1.38618	0.1	-11.4	15
2-Butanone	A	250	227	8.788243E-02	0.0798597		-9.1	
cis-1,2-Dichloroethene	A	50.0	47.2	0.837048	0.789819		-5.6	
Chloroform	A	50.0	42.7	1.489974	1.2714		-14.7	15
1,1,1-Trichloroethane	A	50.0	40.3	1.087956	0.876592		-19.4	15 *
Carbon Tetrachloride	A	50.0	41.8	0.3996015	0.334324		-16.3	15 *
1,2-Dichloroethane	A	50.0	41.3	0.5416884	0.446968		-17.5	
Benzene	A	50.0	47.9	1.357218	1.30027		-4.2	15
Trichloroethene	A	50.0	44.3	0.3086262	0.273319		-11.4	15
1,2-Dichloropropane	A	50.0	47.7	0.3922777	0.374515		-4.5	
Bromodichloromethane	A	50.0	45.5	0.5324099	0.470091		-11.7	15
cis-1,3-Dichloropropene	A	50.0	48.9	0.5674475	0.555402		-2.1	15
4-Methyl-2-pentanone	A	250	235	4.531632E-02	0.0426068		-6.0	
Toluene	A	50.0	53.1	0.7588912	0.805995		6.2	15
trans-1,3-Dichloropropene	A	50.0	55.0	0.4674258	0.514468		10.1	15
1,1,2-Trichloroethane	A	50.0	50.0	0.3006846	0.300997		0.1	15
Tetrachloroethene	L	50.0	28.3	0.3041882	0.192241		-43.5	15 *

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LD002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00115	Injection Date:	12/08/06
Lab Sample ID:	BA00115-CCV1	Injection Time:	10:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone	A	250	283	0.2756401	0.312522		13.4	
Dibromochloromethane	A	50.0	51.2	0.2968428	0.303682		2.3	15
1,2-Dibromoethane	A	50.0	51.4	0.2957643	0.304075		2.8	15
Chlorobenzene	A	50.0	53.7	0.75907	0.814641	0.3	7.3	15
Ethylbenzene	A	50.0	53.5	0.3859952	0.412882		7.0	15
m,p-Xylenes	A	100	109	0.4757066	0.518221		8.9	15
o-Xylene	A	50.0	53.8	0.4633409	0.498205		7.5	15
Styrene	A	50.0	54.5	0.8131023	0.88556		8.9	15
Bromoform	L	50.0	49.1	0.1459766	0.165784	0.1	-1.8	15
Isopropylbenzene	A	50.0	52.8	1.038279	1.09742		5.7	15
1,1,2,2-Tetrachloroethane	A	50.0	56.7	0.4025072	0.456801	0.3	13.5	15
1,3-Dichlorobenzene	A	50.0	56.1	1.157446	1.29771		12.1	15
1,4-Dichlorobenzene	A	50.0	56.1	1.168477	1.31		12.1	15
1,2-Dichlorobenzene	A	50.0	57.3	1.069142	1.22616		14.7	15
1,2-Dibromo-3-chloropropane	L	50.0	55.3	0.1008636	0.12689		10.5	15
1,2,4-Trichlorobenzene	A	50.0	57.6	0.6103911	0.702527		15.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LD027.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00115	Injection Date:	12/08/06
Lab Sample ID:	BA00115-CCV2	Injection Time:	22:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Dichlorodifluoromethane	A	50.0	38.5	0.4891056	0.3764		-23.0		
Chloromethane	A	50.0	45.4	0.9655093	0.876657	0.1	-9.2		
Vinyl chloride	A	50.0	46.6	0.8395935	0.782265		-6.8	15	
Bromomethane	L	50.0	55.3	0.6725491	0.525442		10.7	15	
Chloroethane	A	50.0	46.9	0.6032704	0.565844		-6.2		
Trichlorofluoromethane	A	50.0	43.2	0.9226812	0.796491		-13.7		
1,1-Dichloroethene	A	50.0	42.3	0.685872	0.580372		-15.4	15	
Acetone	A	250	212	0.2787158	0.236356		-15.2		
Carbon disulfide	A	250	216	2.811647	2.42729		-13.7		
Methylene Chloride	L	50.0	46.2	1.008004	0.823569		-7.6		
Methyl-tert-Butyl Ether	A	50.0	41.8	2.081972	1.74022		-16.4		
trans-1,2-Dichloroethene	A	50.0	45.3	0.7836962	0.7094		-9.5		
1,1-Dichloroethane	A	50.0	43.3	1.563742	1.3547	0.1	-13.4	15	
2-Butanone	A	250	227	8.788243E-02	0.0797322		-9.3		
cis-1,2-Dichloroethene	A	50.0	45.1	0.837048	0.754882		-9.8		
Chloroform	A	50.0	43.4	1.489974	1.29491		-13.1	15	
1,1,1-Trichloroethane	A	50.0	39.7	1.087956	0.863974		-20.6	15	*
Carbon Tetrachloride	A	50.0	40.0	0.3996015	0.319515		-20.0	15	*
1,2-Dichloroethane	A	50.0	41.9	0.5416884	0.453681		-16.2		
Benzene	A	50.0	47.7	1.357218	1.29487		-4.6	15	
Trichloroethene	A	50.0	42.2	0.3086262	0.260776		-15.5	15	*
1,2-Dichloropropane	A	50.0	47.9	0.3922777	0.375999		-4.1		
Bromodichloromethane	A	50.0	44.9	0.5324099	0.464195		-12.8	15	
cis-1,3-Dichloropropene	A	50.0	47.0	0.5674475	0.533003		-6.1	15	
4-Methyl-2-pentanone	A	250	237	4.531632E-02	0.0429806		-5.2		
Toluene	A	50.0	51.6	0.7588912	0.782778		3.1	15	
trans-1,3-Dichloropropene	A	50.0	53.5	0.4674258	0.500115		7.0	15	
1,1,2-Trichloroethane	A	50.0	50.2	0.3006846	0.302065		0.5	15	
Tetrachloroethene	L	50.0	38.9	0.3041882	0.266454		-22.2	15	*

CONTINUING CALIBRATION CHECK
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LD027.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00115	Injection Date:	12/08/06
Lab Sample ID:	BA00115-CCV2	Injection Time:	22:52

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone	A	250	293	0.2756401	0.323555		17.4	
Dibromochloromethane	A	50.0	51.1	0.2968428	0.303185		2.1	15
1,2-Dibromoethane	A	50.0	51.6	0.2957643	0.305093		3.2	15
Chlorobenzene	A	50.0	53.7	0.75907	0.815819	0.3	7.5	15
Ethylbenzene	A	50.0	53.1	0.3859952	0.409997		6.2	15
m,p-Xylenes	A	100	107	0.4757066	0.509728		7.2	15
o-Xylene	A	50.0	52.1	0.4633409	0.482429		4.1	15
Styrene	A	50.0	54.0	0.8131023	0.877378		7.9	15
Bromoform	L	50.0	48.9	0.1459766	0.16506	0.1	-2.2	15
Isopropylbenzene	A	50.0	53.2	1.038279	1.10408		6.3	15
1,1,2,2-Tetrachloroethane	A	50.0	54.0	0.4025072	0.434852	0.3	8.0	15
1,3-Dichlorobenzene	A	50.0	51.6	1.157446	1.19418		3.2	15
1,4-Dichlorobenzene	A	50.0	52.5	1.168477	1.22775		5.1	15
1,2-Dichlorobenzene	A	50.0	53.6	1.069142	1.14544		7.1	15
1,2-Dibromo-3-chloropropane	L	50.0	48.5	0.1008636	0.110533		-3.1	15
1,2,4-Trichlorobenzene	A	50.0	50.6	0.6103911	0.61798		1.2	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00118	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00118-TUN1	7LG001.D	12/12/06 10:30
Calibration Check	BA00118-CCV1	7LG002.D	12/12/06 11:00
Blank	6L12026-BLK1	7LG004.D	12/12/06 12:03
LCS	6L12026-BS1	7LG005.D	12/12/06 13:04
MW-10	6L12026-MS1	7LG006.D	12/12/06 13:34
MW-10	6L12026-MSD1	7LG007.D	12/12/06 14:05
JAX47-MW12S-120806	B610655-01	7LG010.D	12/12/06 15:37
JAX47-MW14S-120806	B610655-02	7LG011.D	12/12/06 16:08
JAX47-MW25S-120806	B610655-03	7LG012.D	12/12/06 16:39
JAX47-MW26S-120806	B610655-04	7LG013.D	12/12/06 17:09
JAX47-MW28S-120806	B610655-05	7LG014.D	12/12/06 17:40

CONTINUING CALIBRATION CHECK
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LG002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00118	Injection Date:	12/12/06
Lab Sample ID:	BA00118-CCV1	Injection Time:	11:00

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	83.3	0.4891056	0.814572		66.5	
Chloromethane	A	50.0	53.8	0.9655093	1.03813	0.1	7.5	
Vinyl chloride	A	50.0	51.5	0.8395935	0.864882		3.0	15
Bromomethane	L	50.0	54.8	0.6725491	0.521056		9.7	15
Chloroethane	A	50.0	43.7	0.6032704	0.526883		-12.7	
Trichlorofluoromethane	A	50.0	44.8	0.9226812	0.825927		-10.5	
1,1-Dichloroethene	A	50.0	44.3	0.685872	0.608258		-11.3	15
Acetone	A	250	175	0.2787158	0.195385		-29.9	
Carbon disulfide	A	250	181	2.811647	2.03472		-27.6	
Methylene Chloride	L	50.0	46.3	1.008004	0.825961		-7.3	
Methyl-tert-Butyl Ether	A	50.0	43.0	2.081972	1.79007		-14.0	
trans-1,2-Dichloroethene	A	50.0	45.4	0.7836962	0.712079		-9.1	
1,1-Dichloroethane	A	50.0	40.3	1.563742	1.26108	0.1	-19.4	15 *
2-Butanone	A	250	194	8.788243E-02	0.0680927		-22.5	
cis-1,2-Dichloroethene	A	50.0	47.1	0.837048	0.788331		-5.8	
Chloroform	A	50.0	42.0	1.489974	1.2507		-16.1	15 *
1,1,1-Trichloroethane	A	50.0	39.4	1.087956	0.856332		-21.3	15 *
Carbon Tetrachloride	A	50.0	44.0	0.3996015	0.351563		-12.0	15
1,2-Dichloroethane	A	50.0	41.5	0.5416884	0.449183		-17.1	
Benzene	A	50.0	49.0	1.357218	1.32894		-2.1	15
Trichloroethene	A	50.0	46.8	0.3086262	0.288947		-6.4	15
1,2-Dichloropropane	A	50.0	46.9	0.3922777	0.36783		-6.2	
Bromodichloromethane	A	50.0	46.8	0.5324099	0.483668		-9.2	15
cis-1,3-Dichloropropene	A	50.0	50.4	0.5674475	0.572462		0.9	15
4-Methyl-2-pentanone	A	250	222	4.531632E-02	0.0402355		-11.2	
Toluene	A	50.0	54.5	0.7588912	0.827481		9.0	15
trans-1,3-Dichloropropene	A	50.0	55.2	0.4674258	0.516448		10.5	15
1,1,2-Trichloroethane	A	50.0	52.3	0.3006846	0.31433		4.5	15
Tetrachloroethene	L	50.0	36.0	0.3041882	0.246538		-27.9	15 *

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0612011
Lab File ID:	7LG002.D	Calibration Date:	11/30/06 10:08
Sequence:	BA00118	Injection Date:	12/12/06
Lab Sample ID:	BA00118-CCV1	Injection Time:	11:00

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone	A	250	239	0.2756401	0.263978		-4.2	
Dibromochloromethane	A	50.0	55.0	0.2968428	0.32632		9.9	15
1,2-Dibromoethane	A	50.0	55.2	0.2957643	0.32648		10.4	15
Chlorobenzene	A	50.0	56.7	0.75907	0.861065	0.3	13.4	15
Ethylbenzene	A	50.0	56.5	0.3859952	0.436209		13.0	15
m,p-Xylenes	A	100	113	0.4757066	0.538045		13.1	15
o-Xylene	A	50.0	54.9	0.4633409	0.508651		9.8	15
Styrene	A	50.0	53.4	0.8131023	0.868648		6.8	15
Bromoform	L	50.0	51.4	0.1459766	0.173967	0.1	2.9	15
Isopropylbenzene	A	50.0	53.5	1.038279	1.11081		7.0	15
1,1,2,2-Tetrachloroethane	A	50.0	53.4	0.4025072	0.429611	0.3	6.7	15
1,3-Dichlorobenzene	A	50.0	54.9	1.157446	1.27181		9.9	15
1,4-Dichlorobenzene	A	50.0	56.3	1.168477	1.31672		12.7	15
1,2-Dichlorobenzene	A	50.0	56.3	1.069142	1.20471		12.7	15
1,2-Dibromo-3-chloropropane	L	50.0	57.3	0.1008636	0.131745		14.6	15
1,2,4-Trichlorobenzene	A	50.0	59.9	0.6103911	0.731002		19.8	15 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7LD001.D	Injection Date:	12/08/06
Instrument ID:	JVGCMS1	Injection Time:	09:34
Sequence:	BA00115	Lab Sample ID:	BA00115-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21	PASS
75	30 - 60% of 95	46.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.45	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	66.4	PASS
175	5 - 9% of 174	6.67	PASS
176	95 - 101% of 174	95.1	PASS
177	5 - 9% of 176	5.96	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7LD026.D	Injection Date:	12/08/06
Instrument ID:	JVGCMS1	Injection Time:	22:21
Sequence:	BA00115	Lab Sample ID:	BA00115-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.3	PASS
75	30 - 60% of 95	45.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6	PASS
173	Less than 2% of 174	0.152	PASS
174	50 - 200% of 95	77	PASS
175	5 - 9% of 174	6.6	PASS
176	95 - 101% of 174	95.7	PASS
177	5 - 9% of 176	5.69	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7LF001.D	Injection Date:	12/11/06
Instrument ID:	JVGCMS1	Injection Time:	16:22
Sequence:	BA00115	Lab Sample ID:	BA00115-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.2	PASS
75	30 - 60% of 95	42.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.52	PASS
173	Less than 2% of 174	0.197	PASS
174	50 - 200% of 95	63.9	PASS
175	5 - 9% of 174	7.7	PASS
176	95 - 101% of 174	95.5	PASS
177	5 - 9% of 176	7.75	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7LG001.D	Injection Date:	12/12/06
Instrument ID:	JVGCMS1	Injection Time:	10:30
Sequence:	BA00118	Lab Sample ID:	BA00118-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.5	PASS
75	30 - 60% of 95	43.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.08	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	67.2	PASS
175	5 - 9% of 174	6.58	PASS
176	95 - 101% of 174	97.8	PASS
177	5 - 9% of 176	7.15	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5KX014.D	Injection Date:	11/29/06
Instrument ID:	JSVGCMS1	Injection Time:	16:09
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	34.4	PASS
68	Less than 2% of 69	1.72	PASS
69	Less than 101% of 198	38.3	PASS
70	Less than 2% of 69	0.81	PASS
127	40 - 60% of 198	43.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.67	PASS
275	10 - 30% of 198	24.2	PASS
365	1 - 100% of 198	2.45	PASS
443	17 - 23% of 442	20.1	PASS
441	0.01 - 100% of 443	77	PASS
442	40 - 100% of 198	44.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5K1020.D	Injection Date:	11/01/06
Instrument ID:	JSVGCMS1	Injection Time:	23:36
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.9	PASS
68	Less than 2% of 69	2.19	PASS
69	Less than 101% of 198	38	PASS
70	Less than 2% of 69	0.448	PASS
127	40 - 60% of 198	44.4	PASS
197	Less than 1% of 198	0.0916	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.94	PASS
275	10 - 30% of 198	24.9	PASS
365	1 - 100% of 198	2.46	PASS
443	17 - 23% of 442	20.2	PASS
441	0.01 - 100% of 443	73.7	PASS
442	40 - 100% of 198	59.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5KC002.D	Injection Date:	11/08/06
Instrument ID:	JSVGCMS1	Injection Time:	09:45
Sequence:	BA00069	Lab Sample ID:	BA00069-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.1	PASS
68	Less than 2% of 69	0.153	PASS
69	Less than 101% of 198	36.3	PASS
70	Less than 2% of 69	0.522	PASS
127	40 - 60% of 198	43.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.04	PASS
275	10 - 30% of 198	24.6	PASS
365	1 - 100% of 198	2.34	PASS
443	17 - 23% of 442	21.3	PASS
441	0.01 - 100% of 443	70.4	PASS
442	40 - 100% of 198	55.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5LL001.D	Injection Date:	12/17/06
Instrument ID:	JSVGCMS1	Injection Time:	13:29
Sequence:	BA00101	Lab Sample ID:	BA00101-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	37.5	PASS
68	Less than 2% of 69	0.656	PASS
69	Less than 101% of 198	37.3	PASS
70	Less than 2% of 69	0.487	PASS
127	40 - 60% of 198	41.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.04	PASS
275	10 - 30% of 198	26	PASS
365	1 - 100% of 198	3.1	PASS
443	17 - 23% of 442	21.4	PASS
441	0.01 - 100% of 443	71	PASS
442	40 - 100% of 198	47.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5LM007.D	Injection Date:	12/18/06
Instrument ID:	JSVGCMS1	Injection Time:	17:36
Sequence:	BA00104	Lab Sample ID:	BA00104-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	32.7	PASS
68	Less than 2% of 69	0.669	PASS
69	Less than 101% of 198	33.1	PASS
70	Less than 2% of 69	0.525	PASS
127	40 - 60% of 198	40	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.51	PASS
275	10 - 30% of 198	28	PASS
365	1 - 100% of 198	3.6	PASS
443	17 - 23% of 442	20.5	PASS
441	0.01 - 100% of 443	74.1	PASS
442	40 - 100% of 198	54.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5LN002.D	Injection Date:	12/19/06
Instrument ID:	JSVGCMS1	Injection Time:	10:29
Sequence:	BA00105	Lab Sample ID:	BA00105-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	43.9	PASS
68	Less than 2% of 69	2.4	PASS
69	Less than 101% of 198	40.7	PASS
70	Less than 2% of 69	0.716	PASS
127	40 - 60% of 198	42.3	PASS
197	Less than 1% of 198	1.23	FAIL
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.68	PASS
275	10 - 30% of 198	26.7	PASS
365	1 - 100% of 198	3.91	PASS
443	17 - 23% of 442	21.7	PASS
441	0.01 - 100% of 443	73.2	PASS
442	40 - 100% of 198	40.3	PASS

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-01	File ID:	9LGA018-0
Sampled:	12/05/06 12:46	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 00:07
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
delta-BHC	* 1	9.141	9.124286	0.0167		0.003	50	J for L
Heptachlor	* 1	9.472	9.463429	0.00857		0.007	42.9	J for L
delta-BHC	2	9.182	9.180286	0.00171		0.002	50	J for L
Heptachlor	2	9.229	9.237571	0.00857		0.010	42.9	J for L
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		0.564	3.3	
2,4,5,6-TCMX	2	6.567	6.564286	0.00271		0.546		
DBC	* 1	14.104	14.10214	0.00186		0.587	3.92	
DBC	2	13.911	13.90914	0.00186		0.610		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-02	File ID:	9LGA019-0
Sampled:	12/05/06 13:38	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 00:33
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDT	* 1	12.786	12.78071	0.00529		0.002	
4,4'-DDT	2	12.774	12.77157	0.00243		0.002	
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		0.552	2.72
2,4,5,6-TCMX	2	6.568	6.564286	0.00371		0.567	
DBC	* 1	14.105	14.10214	0.00286		0.579	4.84
DBC	2	13.912	13.90914	0.00286		0.607	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-03	File ID:	9LGA020-0
Sampled:	12/05/06 14:41	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 00:59
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.821	8.816429	0.00457		0.089	0.00000
delta-BHC	1	9.144	9.124286	0.0197		0.031	0.00000
Heptachlor	* 1	9.465	9.463429	0.00157		0.22	0.00000
Chlordane-gamma	1	11.15	11.14771	0.00229		0.042	0.00000
Chlordane-alpha	1	11.351	11.34971	0.00129		0.039	0.00000
4,4'-DDD	1	12.382	12.37786	0.00414		0.094	
Endosulfan sulfate	* 1	13.876	13.853	0.023		0.005	0.00000
beta-BHC	2	8.636	8.687429	0.0514		0.089	0.00000
delta-BHC	* 2	9.185	9.180286	0.00471		0.031	0.00000
Heptachlor	2	9.231	9.237571	0.00657		0.22	0.00000
Chlordane-gamma	* 2	10.977	10.97329	0.00371		0.042	0.00000
Chlordane-alpha	* 2	11.195	11.19143	0.00357		0.039	0.00000
4,4'-DDD	2	12.329	12.32514	0.00386		0.094	
Endosulfan sulfate	2	13.281	13.32643	0.0454		0.005	0.00000
2,4,5,6-TCMX	* 1	6.852	6.848286	0.00371		0.641	1.26
2,4,5,6-TCMX	2	6.569	6.564286	0.00471		0.633	
DBC	* 1	14.105	14.10214	0.00286		0.674	5.04
DBC	2	13.913	13.90914	0.00386		0.708	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-04	File ID:	9LGA021-0
Sampled:	12/05/06 15:31	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 01:25
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	*	1	8.01	8.023286	0.0133		0.002		
delta-BHC	*	1	9.142	9.124286	0.0177		0.032	14.3	
Heptachlor		1	9.461	9.463429	0.00243		0.030	650	R for %D
Aldrin	*	1	9.951	9.967572	0.0166		0.010	30	J for %D
Chlordane-gamma	*	1	11.149	11.14771	0.00129		1.1	1.96	
Chlordane-alpha		1	11.348	11.34971	0.00171		1.8	67.2	J for %D
4,4´-DDE		1	11.488	11.48286	0.00514		0.036	94.4	J for %D
Endosulfan I	*	1	11.559	11.55586	0.00314		0.077	22.2	
Dieldrin		1	11.93	11.91886	0.0111		0.036	36.1	J for %D
Endrin	*	1	12.27	12.26457	0.00543		0.005	920	R for %D
Endosulfan II	*	1	12.585	12.60057	0.0156		0.037	94.7	R for %D
4,4´-DDT	*	1	12.775	12.78071	0.00571		0.015		R for %D
Endosulfan sulfate		1	13.826	13.853	0.027		0.017	183	R for %D
Endrin ketone	*	1	14.245	14.25229	0.00729		0.009	0.00000	
delta-BHC		2	9.186	9.180286	0.00571		0.028	14.3	
Heptachlor	*	2	9.249	9.237571	0.0114		0.004	650	R for %D
Aldrin		2	9.767	9.759429	0.00757		0.013	30	
Chlordane-gamma		2	10.975	10.97329	0.00171		1.1	1.93	
Chlordane-alpha	*	2	11.194	11.19143	0.00257		1.1	67.4	J for %D
4,4'-DDE	*	2	11.476	11.47543	0.00057		0.059	47.5	J for %D
Endosulfan I		2	11.276	11.26443	0.0116		0.063	22.2	
Dieldrin	*	2	11.672	11.67429	0.00229		0.049	36.1	J for %D
Endrin		2	12.106	12.121	0.015		0.051	920	R for %D
Endosulfan II		2	12.453	12.43571	0.0173		0.019	94.7	J for %D
4,4'-DDT		2	12.785	12.77157	0.0134		0.092		R for %D
Endosulfan sulfate	*	2	13.34	13.32643	0.0136		0.006	183	R for %D
Endrin ketone		2	14.083	14.08214	0.00086		0.009	0.00000	
2,4,5,6-TCMX	*	1	6.85	6.848286	0.00171		0.538	6.11	
2,4,5,6-TCMX		2	6.568	6.564286	0.00371		0.507		
DBC	*	1	14.103	14.10214	0.00086		0.631	3.33	
DBC		2	13.911	13.90914	0.00186		0.652		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-05	File ID:	9LGA022-0
Sampled:	12/05/06 16:17	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 01:51
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.783	12.78071	0.00229		0.002	ND
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		0.558	2.87
2,4,5,6-TCMX	2	6.568	6.564286	0.00371		0.574	
DBC	* 1	14.104	14.10214	0.00186		0.638	4.55
DBC	2	13.912	13.90914	0.00286		0.667	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-06	File ID:	9LGA023-0
Sampled:	12/05/06 10:46	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 02:17
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.787	12.78071	0.00629		0.002	
4,4'-DDT	2	12.775	12.77157	0.00343		0.002	
2,4,5,6-TCMX	* 1	6.852	6.848286	0.00371		0.565	4.07
2,4,5,6-TCMX	2	6.569	6.564286	0.00471		0.588	
DBC	* 1	14.106	14.10214	0.00386		0.642	3.12
DBC	2	13.913	13.90914	0.00386		0.662	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-07	File ID:	9LGA032-0
Sampled:	12/05/06 11:39	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 03:09
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	1	9.469	9.463429	0.00557		0.011	450 R for 4
4,4'-DDT	* 1	12.784	12.78071	0.00329		0.002	
Heptachlor	* 2	9.224	9.237571	0.0136		0.002	450 R for 4
4,4'-DDT	2	12.774	12.77157	0.00243		0.002	
2,4,5,6-TCMX	* 1	6.85	6.848286	0.00171		0.569	3.34
2,4,5,6-TCMX	2	6.566	6.564286	0.00171		0.588	
DBC	* 1	14.103	14.10214	0.00086		0.675	4.44
DBC	2	13.911	13.90914	0.00186		0.705	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-01	File ID:	9LGA037-0
Sampled:	12/08/06 13:32	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 05:19
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC		1	8.025	8.023286	0.00171		1.1	864
gamma-BHC		1	8.629	8.628	0.001		0.11	4.5
beta-BHC		1	8.818	8.816429	0.00157		0.70	0.571
delta-BHC		1	9.126	9.124286	0.00171		0.015	33.3
Heptachlor epoxide	*	1	10.957	10.95643	0.00057		0.081	106
Chlordane-gamma	*	1	11.166	11.14771	0.0183		0.016	194
Chlordane-alpha	*	1	11.334	11.34971	0.0157		0.44	1900
4,4'-DDE		1	11.462	11.48286	0.0209		0.056	
Dieldrin		1	11.92	11.91886	0.00114		0.15	16.3
Endosulfan II		1	12.589	12.60057	0.0116		0.032	59.4
4,4'-DDT	*	1	12.779	12.78071	0.00171		0.002	✓
Endrin ketone	*	1	14.254	14.25229	0.00171		0.027	8
alpha-BHC	*	2	7.84	7.838	0.002		0.11	864
gamma-BHC	*	2	8.499	8.497428	0.00157		0.12	4.5
beta-BHC	*	2	8.689	8.687429	0.00157		0.70	0.567
delta-BHC	*	2	9.182	9.180286	0.00171		0.020	33.3
Heptachlor epoxide		2	10.68	10.67843	0.00157		0.17	106
Chlordane-gamma		2	10.968	10.97329	0.00529		0.047	194
Chlordane-alpha		2	11.181	11.19143	0.0104		0.022	1900
4,4'-DDE	*	2	11.48	11.47543	0.00457		0.025	
Dieldrin	*	2	11.675	11.67429	0.00071		0.18	16.3
Endosulfan II	*	2	12.456	12.43571	0.0203		0.051	59.4
4,4'-DDT		2	12.769	12.77157	0.00257		0.003	✓
Endrin ketone		2	14.119	14.08214	0.0369		0.025	8
2,4,5,6-TCMX	*	1	6.849	6.848286	0.000714		1.09	0.741
2,4,5,6-TCMX		2	6.567	6.564286	0.00271		1.08	1.02
DBC	*	1	14.103	14.10214	0.00086		1.49	2.19
DBC		2	13.911	13.90914	0.00186		1.46	2.41

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-02	File ID:	9LGA038-0
Sampled:	12/08/06 09:54	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 05:45
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
Heptachlor epoxide	1	10.956	10.95643	0.00043		0.62	12.1	
Chlordane-gamma	* 1	11.147	11.14771	0.00071		0.017	6.25	
Chlordane-alpha	1	11.334	11.34971	0.0157		0.055	323	R for Y
Dieldrin	* 1	11.918	11.91886	0.00086		0.003	33.3	
4,4'-DDT	* 1	12.783	12.78071	0.00229		0.002		J for Y
Endrin ketone	* 1	14.252	14.25229	0.00029		0.010	11.1	
Heptachlor epoxide	* 2	10.678	10.67843	0.00043		0.70	12.1	
Chlordane-gamma	2	10.973	10.97329	0.00029		0.016	6.25	
Chlordane-alpha	* 2	11.19	11.19143	0.00143		0.013	323	R for Y
Dieldrin	2	11.672	11.67429	0.00229		0.004	33.3	
4,4'-DDT	2	12.788	12.77157	0.0164		0.006		J for Y
2,4,5,6-TCMX	* 1	6.848	6.848286	0.000286		1.41	0.571	
2,4,5,6-TCMX	2	6.565	6.564286	0.000714		1.40	0.786	
DBC	* 1	14.103	14.10214	0.00086		1.74	0.115	
DBC	2	13.91	13.90914	0.00086		1.74		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03	File ID:	9LGA039-0
Sampled:	12/08/06 12:36	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 06:11
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
beta-BHC	* 1	8.818	8.816429	0.00157		1.8	2.27	
Heptachlor epoxide	* 1	10.957	10.95643	0.00057		0.023	217	R for H
Chlordane-gamma	* 1	11.164	11.14771	0.0163		0.036	100	J for H
Chlordane-alpha	1	11.333	11.34971	0.0167		0.032	357	R for H
Endosulfan I	* 1	11.544	11.55586	0.0119		0.012	250	R for H
Endrin	* 1	12.246	12.26457	0.0186		0.003	ND	
4,4'-DDT	* 1	12.777	12.78071	0.00371		0.003		J for H
Methoxychlor	1	13.498	13.48543	0.0126		0.014		
beta-BHC	2	8.689	8.687429	0.00157		1.7	2.27	
Heptachlor epoxide	2	10.656	10.67843	0.0224		0.073	217	R for H
Chlordane-gamma	2	10.965	10.97329	0.00829		0.018	100	J for H
Chlordane-alpha	* 2	11.192	11.19143	0.00057		0.007	357	R for H
Endosulfan I	2	11.29	11.26443	0.0256		0.042	250	R for H
4,4'-DDT	2	12.764	12.77157	0.00757		0.005		J for H
2,4,5,6-TCMX	* 1	6.849	6.848286	0.000714		1.08	9.03	
2,4,5,6-TCMX	2	6.566	6.564286	0.00171		0.986	9.53	
DBC	* 1	14.103	14.10214	0.00086		1.40	3.56	
DBC	2	13.911	13.90914	0.00186		1.35	3.47	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-04	File ID:	9LGA040-0
Sampled:	12/08/06 11:48	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 06:37
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.783	12.78071	0.00229		0.010	
4,4'-DDT	2	12.774	12.77157	0.00243		0.011	
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		1.12	0.0893
2,4,5,6-TCMX	2	6.567	6.564286	0.00271		1.12	0.357
DBC	* 1	14.103	14.10214	0.00086		1.26	1.27
DBC	2	13.911	13.90914	0.00186		1.28	1.35

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-05	File ID:	9LGA042-0
Sampled:	12/08/06 10:44	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 07:29
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Dieldrin	* 1	11.919	11.91886	0.00014		0.003	33.3
Dieldrin	2	11.676	11.67429	0.00171		0.004	0
4,4'-DDT	2	12.774	12.77157	0.00243		0.002	ND
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		1.39	5.23
2,4,5,6-TCMX	2	6.567	6.564286	0.00271		1.32	5.14
DBC	* 1	14.104	14.10214	0.00186		1.69	0.417
DBC	2	13.912	13.90914	0.00286		1.68	0.356

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-01	File ID:	9LHA010-0
Sampled:	12/01/06 11:30	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 16:31
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.023	8.023286	0.000286		0.45	
gamma-BHC	* 1	8.627	8.628	0.001		0.66	3.96
beta-BHC	1	8.806	8.816429	0.0104		3.9	345 R for U
delta-BHC	1	9.125	9.124286	0.000714		0.64	16.6
Aldrin	1	9.948	9.967572	0.0196		2.6	4040 R for U
Heptachlor epoxide	* 1	10.959	10.95643	0.00257		0.020	5300 R for U
4,4'-DDE	* 1	11.484	11.48286	0.00114		0.056	
Dieldrin	* 1	11.918	11.91886	0.00086		0.19	65.6 J for U
Endrin	* 1	12.271	12.26457	0.00643		0.008	1760 R for U
Endosulfan sulfate	* 1	13.841	13.853	0.012		0.009	11.1
Endrin ketone	* 1	14.234	14.25229	0.0183		0.18	14.6
alpha-BHC	2	7.838	7.838	0		0.42	5.41
gamma-BHC	2	8.497	8.497428	0.000428		0.68	3.96
beta-BHC	* 2	8.683	8.687429	0.00443		0.89	345 R for U
delta-BHC	* 2	9.18	9.180286	0.000286		0.75	16.6
Aldrin	* 2	9.735	9.759429	0.0244		0.064	4040 R for U
Heptachlor epoxide	2	10.66	10.67843	0.0184		1.1	5310 R for U
4,4'-DDE	2	11.47	11.47543	0.00543		0.12	
Dieldrin	2	11.674	11.67429	0.00029		0.31	65.6 J for U
Endrin	2	12.102	12.121	0.019		0.15	1760 R for U
Endosulfan sulfate	2	13.346	13.32643	0.0196		0.010	11.1
Endrin ketone	2	14.086	14.08214	0.00386		0.16	14.6
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.903	50.6 J for U
2,4,5,6-TCMX	2	6.561	6.564286	0.00329		1.36	50.3 J for U
DBC	* 1	14.102	14.10214	0.00014		0.886	85.7
DBC	2	13.909	13.90914	0.00014		0.653	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-02	File ID:	9LHA011-0
Sampled:	12/01/06 16:15	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 16:57
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.78	12.78071	0.00071		0.003	✓
Endosulfan sulfate	* 1	13.831	13.853	0.022		0.010	42.9 J for u
4,4'-DDT	2	12.772	12.77157	0.00043		0.003	✓
Endosulfan sulfate	2	13.361	13.32643	0.0346		0.007	42.9 J for u
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.643	0.467
2,4,5,6-TCMX	2	6.564	6.564286	0.000286		0.646	✓
DBC	* 1	14.101	14.10214	0.00114		0.722	1.52
DBC	2	13.909	13.90914	0.00014		0.733	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B610566-03	File ID:	9LHA012-0
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 17:23
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
beta-BHC	* 1	8.815	8.816429	0.00143		1.2	7.91	
Aldrin	1	9.947	9.967572	0.0206		0.11	386	R for U
Chlordane-gamma	1	11.164	11.14771	0.0163		0.035		U for U
Dieldrin	* 1	11.918	11.91886	0.00086		0.033	39.4	J for U
Endrin	* 1	12.241	12.26457	0.0236		0.021	14.3	
Endosulfan II	* 1	12.585	12.60057	0.0156		0.023	235	R for U
4,4'-DDT	* 1	12.777	12.78071	0.00371		0.007		R for U
Methoxychlor	1	13.447	13.48543	0.0384		1.1	18800	R for U
Endosulfan sulfate	* 1	13.868	13.853	0.015		0.007	457	R for U
beta-BHC	2	8.686	8.687429	0.00143		1.3	8.51	
Aldrin	* 2	9.738	9.759429	0.0214		0.022	386	R for U
Dieldrin	2	11.672	11.67429	0.00229		0.046	39.4	J for U
Endrin	2	12.125	12.121	0.004		0.024	14.3	
Endosulfan II	2	12.456	12.43571	0.0203		0.077	235	R for U
4,4'-DDT	2	12.758	12.77157	0.0136		0.023		R for U
Methoxychlor	* 2	13.756	13.77371	0.0177		0.006	18900	R for U
Endosulfan sulfate	2	13.337	13.32643	0.0106		0.039	457	R for U
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.578	18.7	
2,4,5,6-TCMX	2	6.563	6.564286	0.00129		0.487		
DBC	* 1	14.101	14.10214	0.00114		0.686	3.06	
DBC	2	13.909	13.90914	0.00014		0.707		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-04	File ID:	9LHA013-0
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 17:49
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D	
alpha-BHC	* 1	8.024	8.023286	0.000714		0.003		
gamma-BHC	* 1	8.627	8.628	0.001		0.002	150	R for u
delta-BHC	* 1	9.137	9.124286	0.0127		0.026	108	R for u
Heptachlor	* 1	9.449	9.463429	0.0144		0.002	6800	R for u
Chlordane-alpha	* 1	11.324	11.34971	0.0257		0.002	200	R for u
4,4´-DDE	* 1	11.475	11.48286	0.00786		0.003		✓
4,4´-DDT	1	12.779	12.78071	0.00171		0.003		R for u
Endrin ketone	* 1	14.239	14.25229	0.0133		0.019	26.7	J for u
gamma-BHC	2	8.49	8.497428	0.00743		0.005	150	R for u
delta-BHC	2	9.18	9.180286	0.000286		0.054	108	R for u
Heptachlor	2	9.225	9.237571	0.0126		0.14	6800	R for u
Chlordane-alpha	2	11.176	11.19143	0.0154		0.006	200	R for u
Endrin	2	12.139	12.121	0.018		0.004		✓
4,4'-DDT	2	12.784	12.77157	0.0124		0.012		R for u
Endrin ketone	2	14.128	14.08214	0.0459		0.015	26.7	J for u
2,4,5,6-TCMX	* 1	6.846	6.848286	0.00229		0.570	2.33	
2,4,5,6-TCMX	2	6.563	6.564286	0.00129		0.557		
DBC	* 1	14.102	14.10214	0.00014		0.725	1.54	
DBC	2	13.91	13.90914	0.00086		0.714		

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-04RE1	File ID:	9LHA015-0
Sampled:	12/05/06 15:31	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 18:41
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDD	* 1	12.379	12.37786	0.00114		25	
4,4'-DDD	2	12.326	12.32514	0.00086		2.7	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03RE1	File ID:	9LHA016-0
Sampled:	12/08/06 12:36	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 19:07
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.022	8.023286	0.00129		3.4	4.08
gamma-BHC	* 1	8.626	8.628	0.002		4.4	7.57
delta-BHC	* 1	9.123	9.124286	0.00129		3.6	7.82
alpha-BHC	2	7.837	7.838	0.001		3.6	4.08
gamma-BHC	2	8.497	8.497428	0.000428		4.7	7.57
delta-BHC	2	9.18	9.180286	0.000286		3.9	7.82

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-01RE1	File ID:	9LIA010-0
Sampled:	12/01/06 11:30	Prepared:	12/08/06 11:09	Analyzed:	12/14/06 20:51
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4´-DDD	* 1	12.368	12.37786	0.00986		8.2	✓
4,4'-DDD	2	12.319	12.32514	0.00614		8.5	✓

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-03RE1	File ID:	9LIA011-0
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:09	Analyzed:	12/14/06 21:17
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	J&W DB5, ID: 0.32 um, Length:			GC Column(2):	J&W DB1, ID: 0.32 um, Length: 30m

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.013	8.023286	0.0103		9.3	3.33
gamma-BHC	* 1	8.618	8.628	0.01		15	3.81
delta-BHC	* 1	9.113	9.124286	0.0113		8.3	2.08
alpha-BHC	2	7.831	7.838	0.007		9.0	3.33
gamma-BHC	2	8.49	8.497428	0.00743		15	3.94
delta-BHC	2	9.172	9.180286	0.00829		8.2	2.08

* Column used for quantitation

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00069	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00069-TUN2	5K1020.D	11/01/06 23:36
Cal Standard	BA00069-CAL7	5K1021.D	11/01/06 23:54
Cal Standard	BA00069-CAL8	5K1022.D	11/02/06 00:19
Cal Standard	BA00069-CAL9	5K1023.D	11/02/06 00:43
Cal Standard	BA00069-CALA	5K1024.D	11/02/06 01:08
Cal Standard	BA00069-CALB	5K1025.D	11/02/06 01:33
Cal Standard	BA00069-CALC	5K1026.D	11/02/06 01:58
MS Tune	BA00069-TUN3	5KC002.D	11/08/06 09:45
MS Tune	BA00069-TUN1	5KX014.D	11/29/06 16:09
Cal Standard	BA00069-CAL1	5KX015.D	11/29/06 16:27
Cal Standard	BA00069-CAL2	5KX016.D	11/29/06 16:51
Cal Standard	BA00069-CAL3	5KX017.D	11/29/06 17:15
Cal Standard	BA00069-CAL4	5KX018.D	11/29/06 17:39
Cal Standard	BA00069-CAL5	5KX019.D	11/29/06 18:04
Cal Standard	BA00069-CAL6	5KX020.D	11/29/06 18:28

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00101	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00101-TUN1	5LL001.D	12/17/06 13:29
Calibration Check	BA00101-CCV1	5LL002.D	12/17/06 13:47
Calibration Check	BA00101-CCV2	5LL003.D	12/17/06 14:11
Blank	6L12004-BLK1	5LL005.D	12/17/06 14:59
LCS	6L12004-BS1	5LL006.D	12/17/06 15:23
MW-1	6L12004-MS1	5LL007.D	12/17/06 15:47
JAX47-MW16D-120506	B610567-01	5LL013.D	12/17/06 18:12
JAX47-MW16S-120506	B610567-02	5LL014.D	12/17/06 18:37
JAX47-MW17D-120506	B610567-03	5LL015.D	12/17/06 19:01
JAX47-MW17S-120506	B610567-04	5LL016.D	12/17/06 19:25
JAX47-MW19S-120506	B610567-05	5LL017.D	12/17/06 19:49
JAX47-MW23S-120506	B610567-06	5LL018.D	12/17/06 20:13
JAX47-MW24D-120506	B610567-07	5LL019.D	12/17/06 20:38
JAX47-MW12S-120806	B610655-01	5LL020.D	12/17/06 21:02
JAX47-MW14S-120806	B610655-02	5LL021.D	12/17/06 21:27
JAX47-MW25S-120806	B610655-03	5LL022.D	12/17/06 21:52
JAX47-MW26S-120806	B610655-04	5LL023.D	12/17/06 22:17
JAX47-MW28S-120806	B610655-05	5LL024.D	12/17/06 22:42
MW-1	6L12004-MSD1	5LL026.D	12/17/06 23:32

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LL002.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00101	Injection Date:	12/17/06
Lab Sample ID:	BA00101-CCV1	Injection Time:	13:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bis(2-chloroethyl)ether	A	40.0	35.5	1.113659	0.987132		-11.4	15
2-Chlorophenol	A	40.0	41.2	1.347204	1.3872		3.0	15
2-Methylphenol	A	40.0	40.2	0.9987735	1.00267		0.4	15
Bis(2-chloroisopropyl)ether	A	40.0	45.8	1.273852	1.45745		14.4	15
3 & 4-Methylphenol	A	40.0	40.8	1.227253	1.25054		1.9	15
N-Nitroso-di-n-propylamine	A	40.0	41.2	0.7791327	0.80217	0.05	3.0	15
Hexachloroethane	A	40.0	40.2	0.5979318	0.601299		0.6	15
Nitrobenzene	A	40.0	42.6	0.3447905	0.367178		6.5	15
Isophorone	A	40.0	40.9	0.637638	0.652459		2.3	15
2-Nitrophenol	A	40.0	40.4	0.2120211	0.213903		0.9	15
2,4-Dimethylphenol	A	40.0	42.6	0.3165763	0.336875		6.4	15
Bis(2-chloroethoxy)methane	A	40.0	40.4	0.3846464	0.388731		1.1	15
2,4-Dichlorophenol	A	40.0	43.4	0.3590291	0.389494		8.5	15
Naphthalene	A	40.0	38.0	1.196628	1.13585		-5.1	15
4-Chloroaniline	A	40.0	78.6	0.4155317	0.351532		-15.4	
Hexachlorobutadiene	A	40.0	44.2	0.227538	0.251259		10.4	
4-Chloro-3-methylphenol	A	40.0	41.5	0.3049334	0.316582		3.8	15
2-Methylnaphthalene	A	40.0	39.3	0.8038685	0.789956		-1.7	15
2,4,6-Trichlorophenol	A	40.0	41.6	0.5046372	0.525322		4.1	15
2,4,5-Trichlorophenol	A	40.0	42.6	0.5118521	0.545467		6.6	15
2-Chloronaphthalene	A	40.0	37.7	1.308326	1.23379		-5.7	15
2-Nitroaniline	A	40.0	45.4	0.2980158	0.286726		-3.8	
Dimethylphthalate	A	40.0	39.0	1.472225	1.43674		-2.4	15
2,6-Dinitrotoluene	A	40.0	36.8	0.3238295	0.297565		-8.1	
Acenaphthylene	A	40.0	40.0	1.877258	1.87919		0.1	15
3-Nitroaniline	A	40.0	110	0.2987519	0.197491		-33.9	
Acenaphthene	A	40.0	37.6	1.200929	1.12879		-6.0	15
2,4-Dinitrophenol	Q	40.0	33.6	0.1466689	0.116197	0.05	-16.0	
2,4-Dinitrotoluene	A	40.0	36.2	0.429289	0.388245		-9.6	15

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LL002.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00101	Injection Date:	12/17/06
Lab Sample ID:	BA00101-CCV1	Injection Time:	13:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diethylphthalate	A	40.0	37.8	1.41314	1.3335		-5.6	
4-Chlorophenyl-phenylether	A	40.0	38.9	0.8539739	0.831066		-2.7	15
Fluorene	A	40.0	36.5	1.558152	1.42226		-8.7	15
4-Nitroaniline	L	40.0	38.1	0.1842331	0.118162		-4.7	
2-Methyl-4,6-dinitrophenol	Q	40.0	33.5	0.2569687	0.210226		-16.2	15 *
N-Nitrosodiphenylamine	A	40.0	54.9	0.636881	0.874409		37.3	
Hexachlorobenzene	A	40.0	39.7	0.3939929	0.39137		-0.7	15
Pentachlorophenol	Q	40.0	44.9	0.1500199	0.17506		12.2	15
Phenanthrene	A	40.0	36.8	1.32166	1.21424		-8.1	15
Anthracene	A	40.0	36.4	1.346312	1.22554		-9.0	15
Carbazole	A	40.0	59.0	1.049298	0.468769		-55.3	
Di-n-butylphthalate	A	40.0	37.6	1.402729	1.31759		-6.1	
Fluoranthene	A	40.0	37.6	1.58865	1.49124		-6.1	15
Pyrene	A	40.0	37.9	1.656371	1.57126		-5.1	15
Butylbenzylphthalate	A	40.0	38.7	0.645954	0.624913		-3.3	
Benzo(a)anthracene	A	40.0	36.7	1.463374	1.34107		-8.4	15
Bis(2-ethylhexyl)phthalate	A	40.0	39.6	0.7700769	0.76277		-0.9	
Chrysene	A	40.0	36.1	1.3725	1.23878		-9.7	15
Di-n-octylphthalate	A	40.0	39.2	1.258534	1.23429		-1.9	
Benzo(b)fluoranthene	A	40.0	35.5	1.479716	1.31426		-11.2	15
Benzo(k)fluoranthene	A	40.0	37.5	1.424611	1.33607		-6.2	15
Benzo(a)pyrene	A	40.0	37.1	1.299118	1.20478		-7.3	15
Indeno(1,2,3-cd)pyrene	A	40.0	35.2	1.47866	1.30313		-11.9	15
Dibenzo(a,h)anthracene	L	40.0	34.8	1.291882	1.14336		-13.0	15
Benzo(g,h,i)perylene	A	40.0	33.1	1.144079	0.947688		-17.2	15 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LL003.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00101	Injection Date:	12/17/06
Lab Sample ID:	BA00101-CCV2	Injection Time:	14:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Chloroaniline	A	40.0	35.2	0.4155317	0.365948		-11.9	
2-Nitroaniline	A	40.0	36.9	0.2980158	0.275174		-7.7	
3-Nitroaniline	A	40.0	33.0	0.2987519	0.246621		-17.4	
4-Nitroaniline	L	40.0	38.8	0.1842331	0.170458		-2.9	
Carbazole	A	40.0	36.7	1.049298	0.962799		-8.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00104	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00104-TUN1	5LM007.D	12/18/06 17:36
Calibration Check	BA00104-CCV1	5LM008.D	12/18/06 17:53
Calibration Check	BA00104-CCV2	5LM020.D	12/18/06 23:24
Blank	6L08004-BLK1	5LM022.D	12/19/06 00:14
LCS	6L08004-BS1	5LM023.D	12/19/06 00:39
MW-1	6L08004-MS1	5LM024.D	12/19/06 01:04
MW-1	6L08004-MSD1	5LM025.D	12/19/06 01:28
JAX47-937MW4S-120106	B610566-01	5LM027.D	12/19/06 02:18
JAX47-937MW11D-120106	B610566-02	5LM028.D	12/19/06 02:43
JAX47-937MW11S-120106	B610566-03	5LM029.D	12/19/06 03:08
JAX47-937MW14D-120106	B610566-04	5LM030.D	12/19/06 03:33

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LM008.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00104	Injection Date:	12/18/06
Lab Sample ID:	BA00104-CCV1	Injection Time:	17:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bis(2-chloroethyl)ether	A	40.0	37.5	1.113659	1.04477		-6.2	15
2-Chlorophenol	A	40.0	40.0	1.347204	1.34863		0.1	15
2-Methylphenol	A	40.0	40.2	0.9987735	1.00354		0.5	15
Bis(2-chloroisopropyl)ether	A	40.0	44.7	1.273852	1.42426		11.8	15
3 & 4-Methylphenol	A	40.0	42.3	1.227253	1.29898		5.8	15
N-Nitroso-di-n-propylamine	A	40.0	43.0	0.7791327	0.836953	0.05	7.4	15
Hexachloroethane	A	40.0	40.8	0.5979318	0.610546		2.1	15
Nitrobenzene	A	40.0	42.7	0.3447905	0.368134		6.8	15
Isophorone	A	40.0	41.0	0.637638	0.654434		2.6	15
2-Nitrophenol	A	40.0	39.5	0.2120211	0.209349		-1.3	15
2,4-Dimethylphenol	A	40.0	43.2	0.3165763	0.342187		8.1	15
Bis(2-chloroethoxy)methane	A	40.0	39.8	0.3846464	0.38288		-0.5	15
2,4-Dichlorophenol	A	40.0	42.5	0.3590291	0.38107		6.1	15
Naphthalene	A	40.0	38.7	1.196628	1.15786		-3.2	15
4-Chloroaniline	A	40.0	29.8	0.4155317	0.133318		-67.9	
Hexachlorobutadiene	A	40.0	43.3	0.227538	0.246433		8.3	
4-Chloro-3-methylphenol	A	40.0	41.8	0.3049334	0.318723		4.5	15
2-Methylnaphthalene	A	40.0	39.6	0.8038685	0.796466		-0.9	15
2,4,6-Trichlorophenol	A	40.0	41.3	0.5046372	0.520733		3.2	15
2,4,5-Trichlorophenol	A	40.0	41.5	0.5118521	0.531552		3.8	15
2-Chloronaphthalene	A	40.0	37.9	1.308326	1.23972		-5.2	15
2-Nitroaniline	A	40.0	37.1	0.2980158	0.234691		-21.2	
Dimethylphthalate	A	40.0	38.5	1.472225	1.41734		-3.7	15
2,6-Dinitrotoluene	A	40.0	36.8	0.3238295	0.297886		-8.0	
Acenaphthylene	A	40.0	40.0	1.877258	1.87491		-0.1	15
3-Nitroaniline	A	40.0	32.7	0.2987519	0.0587456		-80.3	
Acenaphthene	A	40.0	37.4	1.200929	1.12346		-6.5	15
2,4-Dinitrophenol	Q	40.0	20.6	0.1466689	0.0526521	0.05	-48.4	
2,4-Dinitrotoluene	A	40.0	36.9	0.429289	0.396047		-7.7	15

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LM008.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00104	Injection Date:	12/18/06
Lab Sample ID:	BA00104-CCV1	Injection Time:	17:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diethylphthalate	A	40.0	38.8	1.41314	1.36929		-3.1	
4-Chlorophenyl-phenylether	A	40.0	39.5	0.8539739	0.842747		-1.3	15
Fluorene	A	40.0	37.6	1.558152	1.4626		-6.1	15
4-Nitroaniline	L	40.0	22.5	0.1842331	0.0803635		-43.8	
2-Methyl-4,6-dinitrophenol	Q	40.0	19.6	0.2569687	0.104223		-51.0	15 *
N-Nitrosodiphenylamine	A	40.0	33.6	0.636881	0.53527		-16.0	
Hexachlorobenzene	A	40.0	39.6	0.3939929	0.390164		-1.0	15
Pentachlorophenol	Q	40.0	44.8	0.1500199	0.174795		12.1	15
Phenanthrene	A	40.0	37.4	1.32166	1.23531		-6.5	15
Anthracene	A	40.0	36.9	1.346312	1.24188		-7.8	15
Carbazole	A	40.0	32.7	1.049298	0.259608		-75.3	
Di-n-butylphthalate	A	40.0	38.1	1.402729	1.33738		-4.7	
Fluoranthene	A	40.0	38.4	1.58865	1.52304		-4.1	15
Pyrene	A	40.0	38.6	1.656371	1.59645		-3.6	15
Butylbenzylphthalate	A	40.0	39.5	0.645954	0.637282		-1.3	
Benzo(a)anthracene	A	40.0	36.7	1.463374	1.3411		-8.4	15
Bis(2-ethylhexyl)phthalate	A	40.0	38.0	0.7700769	0.732297		-4.9	
Chrysene	A	40.0	36.6	1.3725	1.2562		-8.5	15
Di-n-octylphthalate	A	40.0	38.4	1.258534	1.2088		-4.0	
Benzo(b)fluoranthene	A	40.0	37.2	1.479716	1.3772		-6.9	15
Benzo(k)fluoranthene	A	40.0	37.7	1.424611	1.34153		-5.8	15
Benzo(a)pyrene	A	40.0	38.7	1.299118	1.25726		-3.2	15
Indeno(1,2,3-cd)pyrene	A	40.0	35.5	1.47866	1.31178		-11.3	15
Dibenzo(a,h)anthracene	L	40.0	36.2	1.291882	1.19841		-9.5	15
Benzo(g,h,i)perylene	A	40.0	32.2	1.144079	0.922544		-19.4	15 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LM020.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00104	Injection Date:	12/18/06
Lab Sample ID:	BA00104-CCV2	Injection Time:	23:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Chloroaniline	A	40.0	32.3	0.4155317	0.335491		-19.3	
2-Nitroaniline	A	40.0	37.2	0.2980158	0.276996		-7.1	
3-Nitroaniline	A	40.0	26.4	0.2987519	0.197493		-33.9	
4-Nitroaniline	L	40.0	25.8	0.1842331	0.121134		-35.4	
Carbazole	A	40.0	36.2	1.049298	0.948681		-9.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00105	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00105-TUN1	5LN002.D	12/19/06 10:29
Calibration Check	BA00105-CCV1	5LN004.D	12/19/06 11:18
JAX47-937MW11S-120106	B610566-03RE1	5LN011.D	12/19/06 15:20

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LN004.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00105	Injection Date:	12/19/06
Lab Sample ID:	BA00105-CCV1	Injection Time:	11:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bis(2-chloroethyl)ether	A	40.0	36.4	1.113659	1.01407		-8.9	15
2-Chlorophenol	A	40.0	38.8	1.347204	1.30647		-3.0	15
2-Methylphenol	A	40.0	38.8	0.9987735	0.969436		-2.9	15
Bis(2-chloroisopropyl)ether	A	40.0	45.7	1.273852	1.45426		14.2	15
3 & 4-Methylphenol	A	40.0	39.2	1.227253	1.20244		-2.0	15
N-Nitroso-di-n-propylamine	A	40.0	42.6	0.7791327	0.830114	0.05	6.5	15
Hexachloroethane	A	40.0	40.4	0.5979318	0.60384		1.0	15
Nitrobenzene	A	40.0	42.6	0.3447905	0.367214		6.5	15
Isophorone	A	40.0	42.2	0.637638	0.672347		5.4	15
2-Nitrophenol	A	40.0	39.4	0.2120211	0.208901		-1.5	15
2,4-Dimethylphenol	A	40.0	41.0	0.3165763	0.324392		2.5	15
Bis(2-chloroethoxy)methane	A	40.0	39.7	0.3846464	0.381375		-0.9	15
2,4-Dichlorophenol	A	40.0	40.1	0.3590291	0.36032		0.4	15
Naphthalene	A	40.0	38.7	1.196628	1.158		-3.2	15
4-Chloroaniline	A	40.0	22.2	0.4155317	0.0994143		-76.1	
Hexachlorobutadiene	A	40.0	44.7	0.227538	0.254068		11.7	
4-Chloro-3-methylphenol	A	40.0	40.5	0.3049334	0.308607		1.2	15
2-Methylnaphthalene	A	40.0	40.0	0.8038685	0.804819		0.1	15
2,4,6-Trichlorophenol	A	40.0	38.2	0.5046372	0.482548		-4.4	15
2,4,5-Trichlorophenol	A	40.0	37.5	0.5118521	0.480386		-6.1	15
2-Chloronaphthalene	A	40.0	37.1	1.308326	1.21386		-7.2	15
2-Nitroaniline	A	40.0	39.6	0.2980158	0.250019		-16.1	
Dimethylphthalate	A	40.0	37.7	1.472225	1.38599		-5.9	15
2,6-Dinitrotoluene	A	40.0	35.0	0.3238295	0.283716		-12.4	
Acenaphthylene	A	40.0	39.3	1.877258	1.84561		-1.7	15
3-Nitroaniline	A	40.0	17.3	0.2987519	0.031069		-89.6	
Acenaphthene	A	40.0	36.4	1.200929	1.09214		-9.1	15
2,4-Dinitrophenol	Q	40.0	27.8	0.1466689	0.0866283	0.05	-30.6	
2,4-Dinitrotoluene	A	40.0	36.0	0.429289	0.386552		-10.0	15

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0612007
Lab File ID:	5LN004.D	Calibration Date:	11/01/06 16:20
Sequence:	BA00105	Injection Date:	12/19/06
Lab Sample ID:	BA00105-CCV1	Injection Time:	11:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Diethylphthalate	A	40.0	37.4	1.41314	1.32309		-6.4		
4-Chlorophenyl-phenylether	A	40.0	38.5	0.8539739	0.822183		-3.7	15	
Fluorene	A	40.0	36.3	1.558152	1.41428		-9.2	15	
4-Nitroaniline	L	40.0	17.2	0.1842331	0.0668256		-57.0		
2-Methyl-4,6-dinitrophenol	Q	40.0	30.7	0.2569687	0.188286		-23.2	15	*
N-Nitrosodiphenylamine	A	40.0	37.7	0.636881	0.600597		-5.7		
Hexachlorobenzene	A	40.0	40.2	0.3939929	0.395793		0.5	15	
Pentachlorophenol	Q	40.0	32.3	0.1500199	0.110328		-19.4	15	*
Phenanthrene	A	40.0	37.1	1.32166	1.22544		-7.3	15	
Anthracene	A	40.0	36.4	1.346312	1.22416		-9.1	15	
Carbazole	A	40.0	32.7	1.049298	0.260255		-75.2		
Di-n-butylphthalate	A	40.0	37.3	1.402729	1.30654		-6.9		
Fluoranthene	A	40.0	37.0	1.58865	1.46735		-7.6	15	
Pyrene	A	40.0	37.0	1.656371	1.53143		-7.5	15	
Butylbenzylphthalate	A	40.0	36.8	0.645954	0.59398		-8.0		
Benzo(a)anthracene	A	40.0	35.7	1.463374	1.30632		-10.7	15	
Bis(2-ethylhexyl)phthalate	A	40.0	36.3	0.7700769	0.698205		-9.3		
Chrysene	A	40.0	35.7	1.3725	1.22578		-10.7	15	
Di-n-octylphthalate	A	40.0	35.9	1.258534	1.12911		-10.3		
Benzo(b)fluoranthene	A	40.0	36.8	1.479716	1.3604		-8.1	15	
Benzo(k)fluoranthene	A	40.0	37.0	1.424611	1.31632		-7.6	15	
Benzo(a)pyrene	A	40.0	37.6	1.299118	1.22256		-5.9	15	
Indeno(1,2,3-cd)pyrene	A	40.0	38.5	1.47866	1.42356		-3.7	15	
Dibenzo(a,h)anthracene	L	40.0	38.4	1.291882	1.28485		-4.0	15	
Benzo(g,h,i)perylene	A	40.0	35.8	1.144079	1.02474		-10.4	15	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612011	Instrument:	JVGCMS1
Matrix:	Water	Calibration Date:	11/30/06 10:08

	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
Compound	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	0.2	0	1	0.4527052	5	0.4385709	20	0.5180889	50	0.5412341	100	0.4731216
Chloromethane	0.2	0	1	0.9004876	5	0.970924	20	0.9544188	50	1.004201	100	0.9882035
Vinyl chloride	0.2	0	1	0.8435794	5	0.7751133	20	0.8489353	50	0.8759871	100	0.8379553
Bromomethane	0.2	0	1	1.324246	5	0.7120602	20	0.5709026	50	0.5328988	100	0.4530427
Chloroethane	0.2	0	1	0.7522113	5	0.596223	20	0.6032934	50	0.5746812	100	0.5635746
Trichlorofluoromethane	0.2	0	1	0.8057719	5	0.888461	20	1.023145	50	1.001561	100	0.9104718
Acrolein	1	0	5	0.2432675	25	0.1884124	100	0.2159134	250	0.1969796	500	0.1858666
1,1-Dichloroethene	0.2	0	1	0.6486346	5	0.7442675	20	0.697001	50	0.6975718	100	0.6654715
Acetone	1	0	5	0.3448751	25	0.2930081	100	0.297826	250	0.2591769	500	0.2407759
Iodomethane	1	0	5	0.4393938	25	0.618348	100	0.8392478	250	0.9210181	500	0.9455904
Carbon disulfide	1	0	5	2.857694	25	2.862586	100	3.029316	250	2.902376	500	2.749817
Acetonitrile	2	0	10	0.1703897	50	0.1487251	200	0.1364299	500	0.1292897	1000	0.1212697
3-Chloropropene	0.2	0	1	1.059791	5	1.070891	20	1.229112	50	1.308025	100	1.316929
Methylene Chloride	0.2	0	1	1.467994	5	0.9940292	20	0.9176805	50	0.9153201	100	0.8884126
Acrylonitrile	1	0.6156966	5	0.5092195	25	0.4831243	100	0.5129563	250	0.4565103	500	0.4537351
Methyl-tert-Butyl Ether	0.2	0	1	2.312951	5	2.024389	20	2.114785	50	2.112303	100	1.969259
trans-1,2-Dichloroethene	0.2	0	1	0.7967139	5	0.8283642	20	0.7737983	50	0.7838383	100	0.7600927
1,1-Dichloroethane	0.2	0	1	1.861428	5	1.46014	20	1.586984	50	1.537344	100	1.49502
Vinyl acetate	1	0	5	2.233398	25	1.488247	100	1.858673	250	1.457027	500	1.270261
Isopropyl Ether	0.2	0	1	3.356399	5	3.409184	20	3.398534	50	3.292367	100	3.21945
Chloroprene	0.2	0	1	0.5302893	5	0.5554583	20	0.6155971	50	0.628601	100	0.6284106
2-Butanone	1	0	5	0.101135	25	8.173172E-02	100	9.740836E-02	250	8.773909E-02	500	7.885221E-02
cis-1,2-Dichloroethene	0.2	0	1	0.8183744	5	0.821207	20	0.8335893	50	0.8413664	100	0.8666011
2,2-Dichloropropane	0.2	0	1	1.050733	5	0.8713461	20	0.915118	50	0.878696	100	0.8363256
Propionitrile	2	0	10	0.144141	50	0.1130482	200	0.1262721	500	0.1177768	1000	0.1109099
Methacrylonitrile	2	0	10	0.7072165	50	0.6225723	200	0.6860151	500	0.6384344	1000	0.5794172
Bromochloromethane	0.2	0	1	0.3355414	5	0.4062859	20	0.3454918	50	0.346342	100	0.3258011
Chloroform	0.2	0	1	1.690506	5	1.546842	20	1.423763	50	1.470779	100	1.420618
1,1,1-Trichloroethane	0.2	0	1	1.211809	5	1.061672	20	1.07235	50	1.10444	100	1.048643
1,1-Dichloropropene	0.2	0	1	1.033798	5	1.058327	20	1.046034	50	1.096283	100	1.054003
Isobutyl alcohol	4	0	20	6.424318E-02	100	7.322675E-02	400	7.878055E-02	1000	7.303572E-02	2000	6.896568E-02

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Carbon Tetrachloride	0.2	0	1	0.4273157	5	0.375078	20	0.3851301	50	0.4176403	100	0.3950114
1,2-Dichloroethane	0.2	0	1	0.6675944	5	0.5059996	20	0.5512738	50	0.5305609	100	0.4997872
Benzene	0.2	0	1	1.413063	5	1.295651	20	1.375797	50	1.390209	100	1.347036
Trichloroethene	0.2	0	1	0.313313	5	0.2953517	20	0.2999687	50	0.3272521	100	0.3137329
1,2-Dichloropropane	0.2	0	1	0.3913603	5	0.3568954	20	0.4090993	50	0.4196903	100	0.3905292
Methyl Methacrylate	0.2	0	1	0.2286104	5	0.1905495	20	0.2421094	50	0.2525738	100	0.2387685
1,4-Dioxane	4	0	20	5.730387E-03	100	3.385931E-03	400	3.455499E-03	1000	3.411555E-03	2000	3.150756E-03
Dibromomethane	0.2	0	1	0.2802099	5	0.2265042	20	0.2545991	50	0.2432576	100	0.232115
Bromodichloromethane	0.2	0.6257632	1	0.4843603	5	0.5173915	20	0.5319154	50	0.5345409	100	0.5106716
2-Chloroethyl Vinyl Ether	1	0	5	2.117564E-02	25	5.047338E-02	100	0.1163377	250	0.1495266	500	0.1528417
cis-1,3-Dichloropropene	0.2	0.4507688	1	0.580126	5	0.5442463	20	0.5994065	50	0.6214545	100	0.5828153
4-Methyl-2-pentanone	1	0	5	4.489235E-02	25	4.047381E-02	100	5.040262E-02	250	4.597459E-02	500	4.320079E-02
Toluene	0.2	0	1	0.8322361	5	0.7228087	20	0.7611497	50	0.7709031	100	0.7327633
trans-1,3-Dichloropropene	0.2	0.3488668	1	0.5584862	5	0.4402746	20	0.4989761	50	0.5056609	100	0.4620594
Cyclohexane	0.2	0	1	1.559559	5	1.332361	20	1.394472	50	1.418223	100	1.391492
Ethyl Methacrylate	0.2	0	1	0.4369676	5	0.3960162	20	0.4784739	50	0.47325	100	0.4440635
1,1,2-Trichloroethane	0.2	0	1	0.3461616	5	0.291369	20	0.3004889	50	0.3015254	100	0.2840139
Methyl acetate	0.2	0	1	1.053884	5	0.9068596	20	0.8828904	50	0.8917693	100	0.8947374
1,3-Dichloropropane	0.2	0	1	0.6290669	5	0.555932	20	0.5875407	50	0.5837365	100	0.5514672
Methyl cyclohexane	0.2	0	1	1.228273	5	0.5823733	20	0.4903148	50	0.5012077	100	0.4732786
Tetrachloroethene	0.2	0	1	0.1777002	5	0.3312601	20	0.3192749	50	0.3468595	100	0.3458462
2-Hexanone	1	0	5	0.2461002	25	0.2542623	100	0.3272361	250	0.2970349	500	0.2665461
Dibromochloromethane	0.2	0.2906535	1	0.2603495	5	0.2739836	20	0.3117213	50	0.3203275	100	0.3051617
1,2-Dibromoethane	0.2	0	1	0.2639284	5	0.2983132	20	0.2988854	50	0.322266	100	0.2948322
Chlorobenzene	0.2	0	1	0.7063894	5	0.7472387	20	0.7607488	50	0.8036382	100	0.7746858
1,1,1,2-Tetrachloroethane	0.2	0.3022136	1	0.2435366	5	0.2132768	20	0.2614637	50	0.2761685	100	0.2622711
Ethylbenzene	0.2	0	1	0.3562327	5	0.3629354	20	0.3919429	50	0.4225946	100	0.3873192
m,p-Xylenes	0.4	0	2	0.4503264	10	0.4421989	40	0.4853094	100	0.496674	200	0.4886988
o-Xylene	0.2	0	1	0.4346371	5	0.4441399	20	0.4604771	50	0.4919662	100	0.4714157
Styrene	0.2	0	1	0.7281961	5	0.7036161	20	0.8082171	50	0.8939935	100	0.8818113
Bromoform	0.2	0	1	5.859528E-02	5	0.1462953	20	0.1617545	50	0.168585	100	0.1668081

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Isopropylbenzene	0.2	0	1	0.8571224	5	0.9697186	20	1.090855	50	1.144667	100	1.08869
1,1,2,2-Tetrachloroethane	0.2	0.4846978	1	0.3678019	5	0.3751002	20	0.4149004	50	0.4018475	100	0.3609996
Bromobenzene	0.2	0	1	0.3058773	5	0.2470437	20	0.270625	50	0.2855355	100	0.275122
1,2,3-Trichloropropane	0.2	0.5866742	1	0.4547793	5	0.4935353	20	0.5743583	50	0.5389843	100	0.4861114
trans-1,4-Dichloro-2-butene	0.2	0	1	0.1461553	5	0.142865	20	0.1517414	50	0.1363605	100	0.1273112
n-Propyl Benzene	0.2	0	1	1.484691	5	1.479836	20	1.617666	50	1.717671	100	1.623803
2-Chlorotoluene	0.2	0	1	2.245793	5	2.345773	20	2.513058	50	2.508591	100	2.405014
1,3,5-Trimethylbenzene	0.2	0	1	2.024604	5	1.88962	20	2.136336	50	2.259376	100	2.107292
4-Chlorotoluene	0.2	0	1	2.214925	5	2.007918	20	2.215175	50	2.234617	100	2.174927
tert-Butylbenzene	0.2	0	1	1.495112	5	1.477466	20	1.637827	50	1.711954	100	1.676964
Pentachloroethane	0.2		1		5		20		50		100	
1,2,4-Trimethylbenzene	0.2	0	1	1.832199	5	2.076745	20	2.243341	50	2.367686	100	2.261212
sec-Butylbenzene	0.2	0	1	2.284047	5	2.521036	20	2.768656	50	2.85426	100	2.710145
1,3-Dichlorobenzene	0.2	0	1	1.281119	5	1.114931	20	1.123647	50	1.162306	100	1.124015
4-Isopropyltoluene	0.2	0	1	1.767622	5	1.689125	20	1.984851	50	2.135973	100	2.081691
1,4-Dichlorobenzene	0.2	0	1	1.288694	5	1.063806	20	1.142237	50	1.172141	100	1.172395
n-Butyl Benzene	0.2	0	1	1.982752	5	1.982981	20	2.253824	50	2.352202	100	2.282808
1,2-Dichlorobenzene	0.2	0	1	1.03853	5	0.9791866	20	1.083838	50	1.12923	100	1.074542
1,2-Dibromo-3-chloropropane	0.2	0	1	5.946362E-02	5	9.809863E-02	20	0.1061258	50	0.1090568	100	0.1119963
1,2,4-Trichlorobenzene	0.2	0	1	0.5537312	5	0.5660412	20	0.5838868	50	0.638422	100	0.647462
Hexachlorobutadiene	0.2	0	1	0.1111629	5	0.1440078	20	0.1701205	50	0.1765023	100	0.1774448
Naphthalene	0.2	0	1	1.8197	5	1.344917	20	1.609407	50	1.682724	100	1.635245
1,2,3-Trichlorobenzene	0.2	0	1	0.586493	5	0.5401117	20	0.5677634	50	0.6050382	100	0.5748309
Diethyl ether	0.2	0	1	0.8455486	5	0.7019079	20	0.7070302	50	0.7194921	100	0.6822284
Freon 113	0.4	0	2	0.4469947	10	0.3790186	40	0.3533423	100	0.3863404	200	0.3507724
Dibromofluoromethane	50	~~0.3701885~~	50	0.354325	50	0.3547079	50	0.3605933	50	0.36206	50	0.364917
Toluene-d8	50	~~1.271092~~	50	1.307543	50	1.294722	50	1.311751	50	1.329164	50	1.353979
4-Bromofluorobenzene	50	~~0.5341534~~	50	0.5540134	50	0.5710301	50	0.559818	50	0.5710208	50	0.5968494
1,2-Dichloroethane-d4	50	~~1.117654~~	50	1.085556	50	1.004396	50	1.044627	50	0.9939997	50	0.9610773

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	200	0.5109127										
Chloromethane	200	0.974821										
Vinyl chloride	200	0.8559908										
Bromomethane	200	0.4421445										
Chloroethane	200	0.5296387										
Trichlorofluoromethane	200	0.9066765										
Acrolein	1000	0.2003366										
1,1-Dichloroethene	200	0.6622854										
Acetone	1000	0.236633										
Iodomethane	1000	0.92213										
Carbon disulfide	1000	2.468094										
Acetonitrile	2000	0.122463										
3-Chloropropene	200	1.27716										
Methylene Chloride	200	0.8645884										
Acrylonitrile	1000	0.4423922										
Methyl-tert-Butyl Ether	200	1.958143										
trans-1,2-Dichloroethene	200	0.7593701										
1,1-Dichloroethane	200	1.441537										
Vinyl acetate	1000	~~1.88214~~										
Isopropyl Ether	200	3.0802										
Chloroprene	200	0.6310418										
2-Butanone	1000	8.042822E-02										
cis-1,2-Dichloroethene	200	0.8411498										
2,2-Dichloropropane	200	0.7913921										
Propionitrile	2000	0.1104053										
Methacrylonitrile	2000	0.5437753										
Bromochloromethane	200	0.3097922										
Chloroform	200	1.387334										
1,1,1-Trichloroethane	200	1.028823										
1,1-Dichloropropene	200	1.045315										
Isobutyl alcohol	4000	6.838683E-02										

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Carbon Tetrachloride	200	0.3974334										
1,2-Dichloroethane	200	0.4949146										
Benzene	200	1.321551										
Trichloroethene	200	0.302139										
1,2-Dichloropropane	200	0.3860918										
Methyl Methacrylate	200	0.2566334										
1,4-Dioxane	4000	3.317532E-03										
Dibromomethane	200	0.2383189										
Bromodichloromethane	200	0.5222266										
2-Chloroethyl Vinyl Ether	1000	0.171795										
cis-1,3-Dichloropropene	200	0.5933154										
4-Methyl-2-pentanone	1000	4.695378E-02										
Toluene	200	0.7334864										
trans-1,3-Dichloropropene	200	0.4576566										
Cyclohexane	200	1.364602										
Ethyl Methacrylate	200	0.457751										
1,1,2-Trichloroethane	200	0.2805485										
Methyl acetate	200	0.7995889										
1,3-Dichloropropane	200	0.5410367										
Methyl cyclohexane	200	0.4760751										
Tetrachloroethene	200	~~0.207303~~										
2-Hexanone	1000	0.2626613										
Dibromochloromethane	200	0.3157025										
1,2-Dibromoethane	200	0.2963606										
Chlorobenzene	200	0.7617193										
1,1,1,2-Tetrachloroethane	200	0.2593994										
Ethylbenzene	200	0.3949464										
m,p-Xylenes	400	0.4910323										
o-Xylene	200	0.4774095										
Styrene	200	0.8627798										
Bromoform	200	0.1738215										

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Isopropylbenzene	200	1.07862										
1,1,2,2-Tetrachloroethane	200	0.412203										
Bromobenzene	200	0.2826647										
1,2,3-Trichloropropane	200	0.4933462										
trans-1,4-Dichloro-2-butene	200	0.1209867										
n-Propyl Benzene	200	1.59285										
2-Chlorotoluene	200	2.370379										
1,3,5-Trimethylbenzene	200	2.155277										
4-Chlorotoluene	200	2.13496										
tert-Butylbenzene	200	1.726945										
Pentachloroethane	200											
1,2,4-Trimethylbenzene	200	2.264591										
sec-Butylbenzene	200	2.734621										
1,3-Dichlorobenzene	200	1.13866										
4-Isopropyltoluene	200	2.086401										
1,4-Dichlorobenzene	200	1.171586										
n-Butyl Benzene	200	2.266742										
1,2-Dichlorobenzene	200	1.109524										
1,2-Dibromo-3-chloropropane	200	0.1204406										
1,2,4-Trichlorobenzene	200	0.6728036										
Hexachlorobutadiene	200	0.1839823										
Naphthalene	200	1.730267										
1,2,3-Trichlorobenzene	200	0.6100554										
Diethyl ether	200	0.6591005										
Freon 113	400	0.3574556										
Dibromofluoromethane	50	0.3315153										
Toluene-d8	50	1.270039										
4-Bromofluorobenzene	50	0.5417665										
1,2-Dichloroethane-d4	50	0.8645335										

INITIAL CALIBRATION DATA (Continued)
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dichlorodifluoromethane	0.4891056	8.263214	4.126667	0.1238832			15	
Chloromethane	0.9655093	3.728292	4.638333	0.1619998			SPCC (0.1)	
Vinyl chloride	0.8395935	4.076439	4.818333	0.0824676			CCC (20)	
Bromomethane	0.6725491	49.6437	5.585	9.772775E-02	0.9980846		0.99	
Chloroethane	0.6032704	12.85019	5.881667	0.1273458			15	
Trichlorofluoromethane	0.9226812	8.61043	6.201667	6.840952E-02			15	
Acrolein	0.2051294	10.47996	7.888333	5.220398E-02			15	
1,1-Dichloroethene	0.685872	5.063244	7.283333	0.0697844			CCC (20)	
Acetone	0.2787158	14.82686	8.388333	8.930864E-02			15	
Iodomethane	0.7809547	26.43857	7.578333	5.201365E-02	0.9996908		0.99	
Carbon disulfide	2.811647	6.788939	7.378333	5.460098E-02			15	
Acetonitrile	0.1380945	13.60038	9.143333	5.597861E-02			15	
3-Chloropropene	1.210318	9.623492	8.16	2.450681E-02			15	
Methylene Chloride	1.008004	22.77009	8.336667	0.0633192	0.9997634		0.99	
Acrylonitrile	0.4962335	11.9714	9.621428	3.543329E-02			15	
Methyl-tert-Butyl Ether	2.081972	6.324892	8.768334	8.624266E-02			15	
trans-1,2-Dichloroethene	0.7836962	3.333029	8.625	6.076272E-02			15	
1,1-Dichloroethane	1.563742	9.917041	9.575	5.562758E-02			SPCC (0.1)	
Vinyl acetate	1.661521	23.13122	9.87	1.926967E-02	0.9889033		0.99	
Isopropyl Ether	3.292689	3.825919	9.35	1.232276E-02			15	
Chloroprene	0.598233	7.346196	9.548333	4.627723E-02			15	
2-Butanone	8.788243E-02	10.69049	11.02167	6.799587E-02			15	
cis-1,2-Dichloroethene	0.837048	2.083256	10.32	0.0147416			15	
2,2-Dichloropropane	0.8906018	9.985542	10.47833	3.896961E-02			15	
Propionitrile	0.1204256	10.82057	11.4	3.753579E-03			15	
Methacrylonitrile	0.6295718	9.847603	11.435	5.313458E-02			15	
Bromochloromethane	0.3448757	9.577937	10.58667	4.882721E-02	0.998923		0.99	
Chloroform	1.489974	7.566166	10.65	1.081857E-02			CCC (20)	
1,1,1-Trichloroethane	1.087956	6.039617	10.965	4.730071E-02			15	
1,1-Dichloropropene	1.055627	2.048352	11.115	4.777277E-02			15	
Isobutyl alcohol	7.110645E-02	7.065213	11.50333	4.396352E-02			15	
Carbon Tetrachloride	0.3996015	4.91674	10.885	5.259331E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dichloroethane	0.5416884	12.04494	11.64333	4.395917E-02			15	
Benzene	1.357218	3.24838	11.42833	4.055526E-02			15	
Trichloroethene	0.3086262	3.801424	12.09333	4.244813E-02			15	
1,2-Dichloropropane	0.3922777	5.501212	12.69	1.313138E-02			CCC (20)	
Methyl Methacrylate	0.2348742	10.17942	12.82833	3.438979E-02			15	
1,4-Dioxane	3.741943E-03	26.1882	12.935	4.115165E-02	0.999133		0.99	
Dibromomethane	0.2458341	7.895044	12.58167	2.722672E-02			15	
Bromodichloromethane	0.5324099	8.340159	12.73	9.976292E-03			15	
2-Chloroethyl Vinyl Ether	0.1103583	55.39909	13.29167	3.035253E-02	0.9972193		0.99	
cis-1,3-Dichloropropene	0.5674475	9.957627	13.41286	3.623176E-02			15	
4-Methyl-2-pentanone	4.531632E-02	7.456596	14.02167	2.686936E-02			15	
Toluene	0.7588912	5.322928	13.68833	3.304316E-02			CCC (20)	
trans-1,3-Dichloropropene	0.4674258	13.99263	14.08857	2.914047E-02			15	
Cyclohexane	1.410118	5.59365	10.63333	0.0495549			15	
Ethyl Methacrylate	0.4477537	6.700453	14.17333	3.024873E-02			15	
1,1,2-Trichloroethane	0.3006846	7.924853	14.27833	3.250169E-02			15	
Methyl acetate	0.9049549	9.119063	8.593334	5.886581E-02			15	
1,3-Dichloropropane	0.5747967	5.625288	14.58167	3.017796E-02			15	
Methyl cyclohexane	0.6252538	47.68198	12.11667	6.511288E-02	0.9998393		0.99	
Tetrachloroethene	0.3041882	23.54363	14.122	2.611843E-02	0.9997888		0.99	
2-Hexanone	0.2756401	11.12374	14.88167	2.317611E-02			15	
Dibromochloromethane	0.2968428	7.645503	14.49286	5.273439E-02			15	
1,2-Dibromoethane	0.2957643	6.295197	14.78833	0.0245476			15	
Chlorobenzene	0.75907	4.230163	15.3	1.718374E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.2597614	10.54839	15.34429	3.216631E-02			15	
Ethylbenzene	0.3859952	6.211594	15.28	9.388808E-03			CCC (20)	
m,p-Xylenes	0.4757066	4.887123	15.415	3.330498E-02			15	
o-Xylene	0.4633409	4.612091	15.83833	2.892547E-02			15	
Styrene	0.8131023	9.984198	15.88167	2.888939E-02			15	
Bromoform	0.1459766	30.02477	15.96167	2.723676E-02	0.999666		SPCC (0.1)	
Isopropylbenzene	1.038279	10.17184	16.11333	2.495369E-02			15	
1,1,2,2-Tetrachloroethane	0.4025072	10.48271	16.53857	2.007184E-02			SPCC (0.3)	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612011
Instrument: JVGCMS1
Matrix: Water
Calibration Date: 11/30/06 10:08

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Bromobenzene	0.2778114	6.973197	16.54	1.557433E-02			15	
1,2,3-Trichloropropane	0.5182556	9.502706	16.70571	2.461927E-02			15	
trans-1,4-Dichloro-2-butene	0.13757	8.503743	16.70333	2.260211E-02			15	
n-Propyl Benzene	1.586086	5.733572	16.48833	3.367371E-02			15	
2-Chlorotoluene	2.398101	4.259706	16.68	9.120699E-03			15	
1,3,5-Trimethylbenzene	2.095418	6.02326	16.63667	3.700984E-02			15	
4-Chlorotoluene	2.163754	3.895487	16.82833	2.621553E-02			15	
tert-Butylbenzene	1.621045	6.721607	16.96167	2.396541E-02			15	
Pentachloroethane							15	
1,2,4-Trimethylbenzene	2.174296	8.832853	17.015	0.0366926			15	
sec-Butylbenzene	2.645461	7.87505	17.12833	1.023672E-02			15	
1,3-Dichlorobenzene	1.157446	5.428462	17.40333	2.577167E-02			15	
4-Isopropyltoluene	1.95761	9.4942	17.23333	3.383868E-02			15	
1,4-Dichlorobenzene	1.168477	6.187377	17.48333	2.829391E-02			15	
n-Butyl Benzene	2.186885	7.391293	17.64667	0.0328921			15	
1,2-Dichlorobenzene	1.069142	5.039583	17.91333	0.0300671			15	
1,2-Dibromo-3-chloropropane	0.1008636	21.37288	18.74	3.494366E-02	0.9987075		0.99	
1,2,4-Trichlorobenzene	0.6103911	8.004216	19.50333	2.593028E-02			15	
Hexachlorobutadiene	0.1605368	17.38199	19.405	4.641348E-02	0.999727		0.99	
Naphthalene	1.637043	9.859078	19.93	2.009993E-02			15	
1,2,3-Trichlorobenzene	0.5807154	4.448561	20.185	2.613821E-02			15	
Diethyl ether	0.7192179	9.094101	6.831667	0.1707826			15	
Freon 113	0.3789873	9.583965	7.358333	0.1021996			15	
Dibromofluoromethane	0.3546864	3.408894	10.89	1.492901E-02			15	
Toluene-d8	1.3112	2.192469	13.63	1.100379E-02			15	
4-Bromofluorobenzene	0.5657497	3.32656	16.40833	1.767008E-02			15	
1,2-Dichloroethane-d4	0.9923649	7.658875	11.56333	0.0440664			15	

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-Nitrosodimethylamine	10	0.4964268	20	0.5277345	40	0.5482018	60	0.5827292	80	0.6157412	100	0.602332
Pyridine	10	0.9306704	20	0.9159353	40	1.071494	60	1.01036	80	1.197729	100	1.117927
Phenol	10	1.330628	20	1.376179	40	1.458102	60	1.514629	80	1.579525	100	1.642845
Bis(2-chloroethyl)ether	10	1.006809	20	1.090329	40	1.058509	60	1.162999	80	1.239082	100	1.124225
2-Chlorophenol	10	1.238006	20	1.275594	40	1.311284	60	1.369235	80	1.435097	100	1.454009
1,3-Dichlorobenzene	10	1.531021	20	1.565797	40	1.613213	60	1.658113	80	1.753095	100	1.784422
1,4-Dichlorobenzene	10	1.568059	20	1.578611	40	1.624154	60	1.670101	80	1.779942	100	1.811965
Benzyl alcohol	10	0.6132678	20	0.6650187	40	0.6984909	60	0.7173918	80	0.7353298	100	0.7685643
1,2-Dichlorobenzene	10	1.472081	20	1.493495	40	1.545308	60	1.584513	80	1.685822	100	1.704527
2-Methylphenol	10	0.8986873	20	0.9386047	40	0.961231	60	1.014081	80	1.079605	100	1.100432
Bis(2-chloroisopropyl)ether	10	1.251148	20	1.243308	40	1.255684	60	1.270256	80	1.316609	100	1.306108
3 & 4-Methylphenol	10	0.9701088	20	1.112654	40	1.195895	60	1.28864	80	1.383647	100	1.412573
N-Nitroso-di-n-propylamine	10	0.7142015	20	0.7326155	40	0.7797061	60	0.8043967	80	0.8236674	100	0.8202091
Hexachloroethane	10	0.5394735	20	0.5619577	40	0.5864849	60	0.6087177	80	0.642691	100	0.648266
Nitrobenzene	10	0.3213079	20	0.3309049	40	0.340389	60	0.3479078	80	0.3646575	100	0.3635761
Isophorone	10	0.5958257	20	0.6142448	40	0.6303841	60	0.6462449	80	0.674079	100	0.6650494
2-Nitrophenol	10	0.1759331	20	0.1988437	40	0.2086904	60	0.2192294	80	0.2326803	100	0.2367497
2,4-Dimethylphenol	10	0.267037	20	0.2916773	40	0.3087565	60	0.3257564	80	0.3520045	100	0.3542258
Bis(2-chloroethoxy)methane	10	0.3471067	20	0.3675633	40	0.3767686	60	0.3888625	80	0.4131033	100	0.4144742
Benzoic acid	10	7.619063E-02	20	0.1242922	40	0.168128	60	0.1872505	80	0.208727	100	0.2165841
2,4-Dichlorophenol	10	0.2866253	20	0.3288369	40	0.3542495	60	0.3712614	80	0.4047817	100	0.4084198
1,2,4-Trichlorobenzene	10	0.4109044	20	0.4318418	40	0.4476621	60	0.4619183	80	0.4956442	100	0.503065
Naphthalene	10	1.067465	20	1.096783	40	1.160657	60	1.211726	80	1.310322	100	1.332816
4-Chloroaniline	10	~~0.2416442~~	20	~~0.2046119~~	40	~~0.1159995~~	60	~~0.1914037~~	80	~~0.1430239~~	100	~~0.1766788~~
Hexachlorobutadiene	10	0.2134656	20	0.2136215	40	0.221122	60	0.2279349	80	0.2443493	100	0.2447346
4-Chloro-3-methylphenol	10	0.2650432	20	0.2849029	40	0.3005574	60	0.3123914	80	0.3316757	100	0.3350295
2-Methylnaphthalene	10	0.7202093	20	0.7323328	40	0.7803268	60	0.8145528	80	0.8790112	100	0.8967782
1-Methylnaphthalene	10	0.6397577	20	0.6763764	40	0.7013898	60	0.7329348	80	0.7864404	100	0.8032699
Hexachlorocyclopentadiene	10	4.648456E-02	20	5.861965E-02	40	0.1011695	60	0.1180499	80	0.1427039	100	0.1597847
2,4,6-Trichlorophenol	10	0.4278608	20	0.4599432	40	0.502035	60	0.5222753	80	0.5562078	100	0.5595013
2,4,5-Trichlorophenol	10	0.393873	20	0.4722299	40	0.4979738	60	0.5420085	80	0.5707454	100	0.5942817

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Chloronaphthalene	10	1.125331	20	1.199377	40	1.272072	60	1.343114	80	1.44868	100	1.461381
2-Nitroaniline	10	~~0.2371525~~	20	~~0.2568192~~	40	~~0.2414965~~	60	~~0.263215~~	80	~~0.2522292~~	100	~~0.2663903~~
Dimethylphthalate	10	1.305287	20	1.376992	40	1.437549	60	1.519333	80	1.595335	100	1.598855
2,6-Dinitrotoluene	10	0.2813424	20	0.2965819	40	0.3196733	60	0.3345966	80	0.3576967	100	0.3530863
Acenaphthylene	10	1.76189	20	1.862191	40	1.906777	60	1.985783	80	1.968355	100	1.77855
3-Nitroaniline	10	~~0.1747551~~	20	~~0.1266649~~	40	~~2.049078E-02~~	60	~~3.338961E-02~~	80	~~2.204432E-02~~	100	~~0.0538346~~
Acenaphthene	10	1.041191	20	1.098134	40	1.161151	60	1.240425	80	1.322695	100	1.341978
2,4-Dinitrophenol	10	3.464745E-02	20	8.960109E-02	40	0.1533252	60	0.1782393	80	0.2015708	100	0.2226298
4-Nitrophenol	10	0.101323	20	0.137244	40	0.1590824	60	0.1688	80	0.1796411	100	0.1815952
Dibenzofuran	10	1.629641	20	1.729622	40	1.818031	60	1.917882	80	2.060403	100	2.109912
2,4-Dinitrotoluene	10	0.3646564	20	0.3997727	40	0.4189329	60	0.44473	80	0.4676735	100	0.4799682
Diethylphthalate	10	1.260251	20	1.3168	40	1.376308	60	1.453797	80	1.526042	100	1.545639
4-Chlorophenyl-phenylether	10	0.7340136	20	0.7875367	40	0.827723	60	0.8773842	80	0.939409	100	0.9577766
Fluorene	10	1.351283	20	1.420157	40	1.505346	60	1.608656	80	1.708162	100	1.755311
4-Nitroaniline	10	~~0.1791933~~	20	~~0.1616877~~	40	~~0.1168238~~	60	~~0.1095802~~	80	~~0.1037411~~	100	~~9.295602E-02~~
2-Methyl-4,6-dinitrophenol	10	0.1478697	20	0.2108437	40	0.2600367	60	0.2885362	80	0.309297	100	0.3252287
N-Nitrosodiphenylamine	10	0.8496246	20	0.8334134	40	0.5558634	60	0.5268767	80	0.4186267	100	~~0.4304152~~
DPH (as Azobenzene)	10	0.2955088	20	0.3183113	40	0.3299878	60	0.3538401	80	0.370571	100	0.3777743
4-Bromophenyl-phenylether	10	0.2520347	20	0.2742017	40	0.2889974	60	0.3059996	80	0.3253096	100	0.3349183
Hexachlorobenzene	10	0.3404056	20	0.3602108	40	0.3811164	60	0.4020569	80	0.4367788	100	0.443389
Pentachlorophenol	10	5.554475E-02	20	0.1067779	40	0.1522757	60	0.1711415	80	0.1982624	100	0.2161174
Phenanthrene	10	1.138832	20	1.209172	40	1.271087	60	1.348976	80	1.45681	100	1.505084
Anthracene	10	1.142806	20	1.230773	40	1.289597	60	1.385105	80	1.497236	100	1.532357
Carbazole	10	~~0.7484264~~	20	~~0.4936377~~	40	~~0.1939748~~	60	~~0.18169~~	80	~~0.1548202~~	100	~~0.1354584~~
Di-n-butylphthalate	10	1.213996	20	1.28138	40	1.358097	60	1.432399	80	1.552332	100	1.578171
Fluoranthene	10	1.357448	20	1.437538	40	1.535082	60	1.633164	80	1.757527	100	1.81114
Benzidine	10	0.1288933	20	0.1154883	40	0.0783878	60	0.1345791	80	0.1452869	100	0.165156
Pyrene	10	1.421078	20	1.503103	40	1.606052	60	1.70754	80	1.829351	100	1.871101
1,1'-Biphenyl												
Atrazine												
Butylbenzylphthalate	10	0.5567735	20	0.5920196	40	0.6220171	60	0.6604351	80	0.7093197	100	0.7351588

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde												
3,3'-Dichlorobenzidine	10	0.4085538	20	0.4053029	40	0.3790526	60	0.3977995	80	0.4081247	100	0.4426037
Caprolactam												
Benzo(a)anthracene	10	1.378266	20	1.429694	40	1.443026	60	1.469047	80	1.536159	100	1.524055
Bis(2-ethylhexyl)phthalate	10	0.681197	20	0.713179	40	0.7566778	60	0.7865418	80	0.8438767	100	0.8389889
Chrysene	10	1.241067	20	1.314434	40	1.348267	60	1.394853	80	1.466771	100	1.469608
Di-n-octylphthalate	10	1.139674	20	1.190193	40	1.22623	60	1.27156	80	1.361133	100	1.362415
Benzo(b)fluoranthene	10	1.228081	20	1.328663	40	1.419732	60	1.456191	80	1.67873	100	1.766897
Benzo(k)fluoranthene	10	1.222199	20	1.302169	40	1.409838	60	1.532701	80	1.551709	100	1.529051
Benzo(a)pyrene	10	1.125952	20	1.191706	40	1.26279	60	1.332139	80	1.433103	100	1.44902
Indeno(1,2,3-cd)pyrene	10	1.172195	20	1.320024	40	1.453564	60	1.536891	80	1.676158	100	1.713127
Dibenzo(a,h)anthracene	10	1.007644	20	1.130488	40	1.26612	60	1.354048	80	1.479822	100	1.513169
Benzo(g,h,i)perylene	10	0.9464023	20	1.026485	40	1.112641	60	1.174591	80	1.293265	100	1.311089
Acetophenone												
Aniline	10		20		40		60		80		100	
2-Fluorophenol	10	0.8942506	20	0.9035985	40	1.054158	60	1.087768	80	1.139282	100	1.152442
Phenol-d5	10	1.25199	20	1.306114	40	1.336654	60	1.385578	80	1.450203	100	1.459501
Nitrobenzene-d5	10	0.310559	20	0.3170373	40	0.3272429	60	0.3312393	80	0.3455971	100	0.3462697
2-Fluorobiphenyl	10	1.354024	20	1.429532	40	1.475582	60	1.558828	80	1.659271	100	1.68691
2,4,6-Tribromophenol	10	0.2147565	20	0.2323261	40	0.2622404	60	0.2805108	80	0.3046321	100	0.3200227
Terphenyl-d14	10	1.001313	20	1.089632	40	1.174286	60	1.246686	80	1.34246	100	1.397479

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-Nitrosodimethylamine												
Pyridine	10	~~1.0205~~	20	~~1.001603~~	40	~~1.179189~~	60	~~1.201498~~	80	~~1.15629~~	100	~~1.244943~~
Phenol												
Bis(2-chloroethyl)ether												
2-Chlorophenol												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Benzyl alcohol												
1,2-Dichlorobenzene												
2-Methylphenol												
Bis(2-chloroisopropyl)ether												
3 & 4-Methylphenol												
N-Nitroso-di-n-propylamine												
Hexachloroethane												
Nitrobenzene												
Isophorone												
2-Nitrophenol												
2,4-Dimethylphenol												
Bis(2-chloroethoxy)methane												
Benzoic acid												
2,4-Dichlorophenol												
1,2,4-Trichlorobenzene												
Naphthalene												
4-Chloroaniline	10	0.3960957	20	0.3906489	40	0.4188442	60	0.4195752	80	0.4194649	100	0.4485616
Hexachlorobutadiene												
4-Chloro-3-methylphenol												
2-Methylnaphthalene												
1-Methylnaphthalene												
Hexachlorocyclopentadiene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Chloronaphthalene												
2-Nitroaniline	10	0.2919919	20	0.2908554	40	0.3026454	60	0.298676	80	0.2927418	100	0.3111843
Dimethylphthalate												
2,6-Dinitrotoluene												
Acenaphthylene												
3-Nitroaniline	10	0.2830856	20	0.2920269	40	0.302506	60	0.3037333	80	0.2939973	100	0.3171624
Acenaphthene												
2,4-Dinitrophenol												
4-Nitrophenol												
Dibenzofuran												
2,4-Dinitrotoluene												
Diethylphthalate												
4-Chlorophenyl-phenylether												
Fluorene												
4-Nitroaniline	10	0.2284883	20	0.2139495	40	0.1740258	60	0.1690071	80	0.1547607	100	0.1651672
2-Methyl-4,6-dinitrophenol												
N-Nitrosodiphenylamine												
DPH (as Azobenzene)	10	~~0.309307~~	20	~~0.3142824~~	40	~~0.3251827~~	60	~~0.3324999~~	80	~~0.3336577~~	100	~~0.3628688~~
4-Bromophenyl-phenylether												
Hexachlorobenzene												
Pentachlorophenol												
Phenanthrene												
Anthracene												
Carbazole	10	0.9961421	20	1.020945	40	1.058574	60	1.071273	80	1.026922	100	1.121931
Di-n-butylphthalate												
Fluoranthene												
Benzidine												
Pyrene												
1,1'-Biphenyl												
Atrazine												
Butylbenzylphthalate												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612007	Instrument:	JSVGCMS1
Matrix:	Water	Calibration Date:	11/01/06 16:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde												
3,3'-Dichlorobenzidine												
Caprolactam												
Benzo(a)anthracene												
Bis(2-ethylhexyl)phthalate												
Chrysene												
Di-n-octylphthalate												
Benzo(b)fluoranthene												
Benzo(k)fluoranthene												
Benzo(a)pyrene												
Indeno(1,2,3-cd)pyrene												
Dibenzo(a,h)anthracene												
Benzo(g,h,i)perylene												
Acetophenone												
Aniline	10		20		40		60		80		100	
2-Fluorophenol												
Phenol-d5												
Nitrobenzene-d5												
2-Fluorobiphenyl												
2,4,6-Tribromophenol												
Terphenyl-d14												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
N-Nitrosodimethylamine	0.5621943	8.193294	2.633333	0.1963783			15	
Pyridine	1.040686	10.54051	2.655	0.3152727			15	
Phenol	1.483651	8.038196	4.49	0.1988276			CCC (30)	
Bis(2-chloroethyl)ether	1.113659	7.325752	4.556667	0.1139776			15	
2-Chlorophenol	1.347204	6.467657	4.633333	0.1110654			15	
1,3-Dichlorobenzene	1.650943	6.138832	4.766667	0.1073817			15	
1,4-Dichlorobenzene	1.672139	6.160618	4.83	7.874393E-03			CCC (30)	
Benzyl alcohol	0.6996772	7.828096	4.928333	0.1530624			15	
1,2-Dichlorobenzene	1.580958	6.136074	4.97	1.841074E-02			15	
2-Methylphenol	0.9987735	8.028501	5.025	0.1077882			15	
Bis(2-chloroisopropyl)ether	1.273852	2.396582	5.04	1.126358E-02			15	
3 & 4-Methylphenol	1.227253	13.77085	5.165	0.1066847			15	
N-Nitroso-di-n-propylamine	0.7791327	5.934358	5.165	0.1066847			SPCC (0.05)	
Hexachloroethane	0.5979318	7.288353	5.28	1.458778E-02			15	
Nitrobenzene	0.3447905	5.058405	5.343333	9.768688E-02			15	
Isophorone	0.637638	4.705682	5.558333	0.1350731			15	
2-Nitrophenol	0.2120211	10.70834	5.64	1.271817E-02			CCC (30)	
2,4-Dimethylphenol	0.3165763	10.84362	5.665	9.541788E-02			15	
Bis(2-chloroethoxy)methane	0.3846464	6.85909	5.745	9.546621E-02			15	
Benzoic acid	0.1635287	33.05464	5.776667	0.5760865		0.9993511	0.99	
2,4-Dichlorophenol	0.3590291	12.98021	5.873333	8.704164E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.458506	7.846046	5.95	2.172452E-02			15	
Naphthalene	1.196628	9.127504	6.033333	8.235539E-02			15	
4-Chloroaniline	0.4155317	4.96787	6.123333	8.439695E-02			15	
Hexachlorobutadiene	0.227538	6.250511	6.14	2.432736E-02			CCC (30)	
4-Chloro-3-methylphenol	0.3049334	8.90665	6.541667	6.167171E-02			CCC (30)	
2-Methylnaphthalene	0.8038685	9.152093	6.701667	5.768975E-02			15	
1-Methylnaphthalene	0.7233615	8.772933	6.803333	7.451198E-02			15	
Hexachlorocyclopentadiene	0.1044687	43.19495	6.85	2.203062E-02		0.9975833	SPCC (0.05)	
2,4,6-Trichlorophenol	0.5046372	10.44058	6.98	1.920615E-02			CCC (30)	
2,4,5-Trichlorophenol	0.5118521	14.31777	7.02	9.988165E-03			15	
2-Chloronaphthalene	1.308326	10.31183	7.186667	7.386857E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612007
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2-Nitroaniline	0.2980158	2.644876	7.333333	6.876746E-02			15	
Dimethylphthalate	1.472225	8.125445	7.446667	7.018927E-02			15	
2,6-Dinitrotoluene	0.3238295	9.451377	7.518333	0.1008388			15	
Acenaphthylene	1.877258	5.01001	7.603333	6.753869E-02			15	
3-Nitroaniline	0.2987519	3.935311	7.738333	9.695871E-02			15	
Acenaphthene	1.200929	10.12647	7.773333	6.531179E-02			CCC (30)	
2,4-Dinitrophenol	0.1466689	48.81555	7.8	8.191584E-02		0.9994468	SPCC (0.05)	
4-Nitrophenol	0.1546143	19.86585	7.873333	6.493114E-02	0.9991882		SPCC (0.05)	
Dibenzofuran	1.877582	9.990709	7.946667	6.414562E-02			15	
2,4-Dinitrotoluene	0.429289	10.11951	7.925	7.111193E-02			15	
Diethylphthalate	1.41314	8.128289	8.145	6.657746E-02			15	
4-Chlorophenyl-phenylether	0.8539739	10.22404	8.27	1.557433E-02			15	
Fluorene	1.558152	10.29066	8.286667	6.113085E-02			15	
4-Nitroaniline	0.1842331	16.11958	8.341667	8.993467E-02	0.9944372		0.995	*
2-Methyl-4,6-dinitrophenol	0.2569687	26.06665	8.336667	9.857811E-02		0.9998563	0.99	
N-Nitrosodiphenylamine	0.636881	30.42456	8.39	1.081293E-02			CCC (30)	
DPH (as Azobenzene)	0.3409989	9.363236	8.433333	0.0576731			15	
4-Bromophenyl-phenylether	0.2969102	10.57137	8.761667	4.475687E-02			15	
Hexachlorobenzene	0.3939929	10.47371	8.845	6.172816E-02			15	
Pentachlorophenol	0.1500199	39.93116	9.04	2.281919E-02		0.9994615	CCC (30)	*
Phenanthrene	1.32166	10.76925	9.255	5.926022E-02			15	
Anthracene	1.346312	11.35618	9.305	0.0608593			15	
Carbazole	1.049298	4.256642	9.506667	5.204911E-02			15	
Di-n-butylphthalate	1.402729	10.39847	9.766667	5.554465E-02			15	
Fluoranthene	1.58865	11.23068	10.445	5.421693E-02			CCC (30)	
Benzidine	0.1279652	23.02702	10.56167	4.046433E-02		0.97494	0.99	*
Pyrene	1.656371	10.80103	10.67667	0.0491134			15	
1,1'-Biphenyl	1.497159	7.675694	7.211667	5.560347E-02			15	
Atrazine	0.2693472	7.97944	8.966667	5.956773E-02			15	
Butylbenzylphthalate	0.645954	10.63971	11.26667	4.492072E-02			15	
Benzaldehyde	1.106363	5.270253	4.49	2.212579E-02			15	
3,3'-Dichlorobenzidine	0.4069062	5.084068	11.82333	3.981086E-02			15	

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0612007	Instrument:	JSVGCMS1
Matrix:	Water	Calibration Date:	11/01/06 16:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Caprolactam	0.1078949	13.19479	6.453333	0.1882893			15	
Benzo(a)anthracene	1.463374	4.077702	11.865	4.565219E-02			15	
Bis(2-ethylhexyl)phthalate	0.7700769	8.571151	11.81667	3.787649E-02			15	
Chrysene	1.3725	6.520869	11.90333	6.741974E-02			15	
Di-n-octylphthalate	1.258534	7.224001	12.42167	3.993896E-02			CCC (30)	
Benzo(b)fluoranthene	1.479716	13.92776	12.88167	0.0619947			15	
Benzo(k)fluoranthene	1.424611	9.671884	12.90833	5.682324E-02			15	
Benzo(a)pyrene	1.299118	9.99828	13.21	6.667204E-02			CCC (30)	
Indeno(1,2,3-cd)pyrene	1.47866	14.09171	14.525	0.1287234			15	
Dibenzo(a,h)anthracene	1.291882	15.31227	14.525	0.1287234	0.9967171		0.995	
Benzo(g,h,i)perylene	1.144079	12.66476	14.9	0.1199012			15	
Acetophenone	1.606089	7.993928	5.23	1.686226E-02			15	
Aniline							15	
2-Fluorophenol	1.038583	10.96286	3.703333	0.1396023			15	
Phenol-d5	1.365007	6.010489	4.476667	0.1152809			15	
Nitrobenzene-d5	0.3296576	4.421747	5.323333	9.806076E-02			15	
2-Fluorobiphenyl	1.527358	8.59381	7.055	7.664578E-02			15	
2,4,6-Tribromophenol	0.2690814	15.17659	8.531666	4.779001E-02			15	*
Terphenyl-d14	1.208643	12.45703	10.80167	4.106554E-02			15	

HOLDING TIME SUMMARY
EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-937MW4S-120106	12/01/06 11:30	12/05/06 10:50	12/08/06 09:00	6.90	NA	12/08/06 16:13	7.00	14.00	
JAX47-937MW4S-120106	12/01/06 11:30	12/05/06 10:50	12/08/06 09:00	6.90	NA	12/09/06 00:55	8.00	14.00	
JAX47-937MW11D-120106	12/01/06 16:15	12/05/06 10:50	12/08/06 09:00	6.70	NA	12/09/06 01:25	7.00	14.00	
JAX47-937MW11S-120106	12/01/06 15:00	12/05/06 10:50	12/08/06 09:00	6.75	NA	12/08/06 17:15	7.00	14.00	
JAX47-937MW14D-120106	12/01/06 15:00	12/05/06 10:50	12/08/06 09:00	6.75	NA	12/08/06 17:45	7.00	14.00	
JAX47-MW16D-120506	12/05/06 12:46	12/06/06 14:22	12/08/06 09:00	2.84	NA	12/08/06 18:16	3.00	14.00	
JAX47-MW16S-120506	12/05/06 13:38	12/06/06 14:22	12/08/06 09:00	2.81	NA	12/08/06 18:47	3.00	14.00	
JAX47-MW17D-120506	12/05/06 14:41	12/06/06 14:22	12/08/06 09:00	2.76	NA	12/08/06 19:17	3.00	14.00	
JAX47-MW17D-120506	12/05/06 14:41	12/06/06 14:22	12/08/06 09:00	2.76	NA	12/11/06 18:56	6.00	14.00	
JAX47-MW17S-120506	12/05/06 15:31	12/06/06 14:22	12/08/06 09:00	2.73	NA	12/11/06 18:25	6.00	14.00	
JAX47-MW19S-120506	12/05/06 16:17	12/06/06 14:22	12/08/06 09:00	2.70	NA	12/08/06 20:19	3.00	14.00	
JAX47-MW23S-120506	12/05/06 10:46	12/06/06 14:22	12/08/06 09:00	2.93	NA	12/08/06 20:50	3.00	14.00	
JAX47-MW24D-120506	12/05/06 11:39	12/06/06 14:22	12/08/06 09:00	2.89	NA	12/08/06 21:20	3.00	14.00	
JAX47-MW12S-120806	12/08/06 13:32	12/08/06 15:50	12/12/06 09:00	3.81	NA	12/12/06 15:37	4.00	14.00	
JAX47-MW14S-120806	12/08/06 09:54	12/08/06 15:50	12/12/06 09:00	3.96	NA	12/12/06 16:08	4.00	14.00	
JAX47-MW25S-120806	12/08/06 12:36	12/08/06 15:50	12/12/06 09:00	3.85	NA	12/12/06 16:39	4.00	14.00	
JAX47-MW26S-120806	12/08/06 11:48	12/08/06 15:50	12/12/06 09:00	3.88	NA	12/12/06 17:09	4.00	14.00	
JAX47-MW28S-120806	12/08/06 10:44	12/08/06 15:50	12/12/06 09:00	3.93	NA	12/12/06 17:40	4.00	14.00	

HOLDING TIME SUMMARY
EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-937MW4S-120106	12/01/06 11:30	12/05/06 10:50	12/08/06 11:14	7.00	7.00	12/19/06 02:18	11.00	40.00	
JAX47-937MW11D-120106	12/01/06 16:15	12/05/06 10:50	12/08/06 11:14	7.00	7.00	12/19/06 02:43	11.00	40.00	
JAX47-937MW11S-120106	12/01/06 15:00	12/05/06 10:50	12/08/06 11:14	7.00	7.00	12/19/06 03:08	11.00	40.00	
JAX47-937MW11S-120106	12/01/06 15:00	12/05/06 10:50	12/08/06 11:14	7.00	7.00	12/19/06 15:20	11.00	40.00	
JAX47-937MW14D-120106	12/01/06 15:00	12/05/06 10:50	12/08/06 11:14	7.00	7.00	12/19/06 03:33	11.00	40.00	
JAX47-MW16D-120506	12/05/06 12:46	12/06/06 14:22	12/12/06 07:55	7.00	7.00	12/17/06 18:12	5.00	40.00	
JAX47-MW16S-120506	12/05/06 13:38	12/06/06 14:22	12/12/06 07:55	7.00	7.00	12/17/06 18:37	5.00	40.00	
JAX47-MW17D-120506	12/05/06 14:41	12/06/06 14:22	12/12/06 07:55	7.00	7.00	12/17/06 19:01	5.00	40.00	
JAX47-MW17S-120506	12/05/06 15:31	12/06/06 14:22	12/12/06 07:55	7.00	7.00	12/17/06 19:25	5.00	40.00	
JAX47-MW19S-120506	12/05/06 16:17	12/06/06 14:22	12/12/06 07:55	7.00	7.00	12/17/06 19:49	5.00	40.00	
JAX47-MW23S-120506	12/05/06 10:46	12/06/06 14:22	12/12/06 07:55	7.00	7.00	12/17/06 20:13	6.00	40.00	
JAX47-MW24D-120506	12/05/06 11:39	12/06/06 14:22	12/12/06 07:55	7.00	7.00	12/17/06 20:38	6.00	40.00	
JAX47-MW12S-120806	12/08/06 13:32	12/08/06 15:50	12/12/06 07:55	4.00	7.00	12/17/06 21:02	6.00	40.00	
JAX47-MW14S-120806	12/08/06 09:54	12/08/06 15:50	12/12/06 07:55	4.00	7.00	12/17/06 21:27	6.00	40.00	
JAX47-MW25S-120806	12/08/06 12:36	12/08/06 15:50	12/12/06 07:55	4.00	7.00	12/17/06 21:52	6.00	40.00	
JAX47-MW26S-120806	12/08/06 11:48	12/08/06 15:50	12/12/06 07:55	4.00	7.00	12/17/06 22:17	6.00	40.00	
JAX47-MW28S-120806	12/08/06 10:44	12/08/06 15:50	12/12/06 07:55	4.00	7.00	12/17/06 22:42	6.00	40.00	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L08023-BLK1	File ID:	7LD007.D
Prepared:	12/08/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/08/06 12:38	Instrument:	JVGCMS1		
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	0.4	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
110-82-7	Cyclohexane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-20-9	Methyl acetate	1.0	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08023-BLK1	File ID:	7LD007.D
Prepared:	12/08/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/08/06 12:38	Instrument:	JVGCMS1		
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-87-2	Methyl cyclohexane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
60-29-7	Diethyl ether	1.0	U
76-13-1	Freon 113	1.0	U
NA	Xylenes (Total)	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	47.0	94	85 - 115	
Toluene-d8	50.0	47.3	95	85 - 120	
4-Bromofluorobenzene	50.0	44.6	89	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	310844	11.42	326390	11.41	
1,4-Difluorobenzene	692353	12.08	711773	12.07	
Chlorobenzene-d5	615145	15.26	641086	15.26	
1,4-Dichlorobenzene-d4	247420	17.45	262054	17.45	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08023-BLK2	File ID:	7LD030.D
Prepared:	12/08/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/09/06 00:24	Instrument:	JVGCMS1		
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	0.4	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
110-82-7	Cyclohexane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-20-9	Methyl acetate	1.0	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08023-BLK2	File ID:	7LD030.D
Prepared:	12/08/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/09/06 00:24	Instrument:	JVGCMS1		
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-87-2	Methyl cyclohexane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
60-29-7	Diethyl ether	1.0	U
76-13-1	Freon 113	1.0	U
NA	Xylenes (Total)	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	46.1	92	85 - 115	
Toluene-d8	50.0	47.7	95	85 - 120	
4-Bromofluorobenzene	50.0	44.7	89	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	336421	11.42	324835	11.41	
1,4-Difluorobenzene	721598	12.08	701153	12.07	
Chlorobenzene-d5	640713	15.26	623095	15.26	
1,4-Dichlorobenzene-d4	254284	17.45	263931	17.44	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08023-BLK3	File ID:	7LF004.D
Prepared:	12/09/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/11/06 17:55	Instrument:	JVGCMS1		
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	2.28	J
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	0.4	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
110-82-7	Cyclohexane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-20-9	Methyl acetate	1.0	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08023-BLK3	File ID:	7LF004.D
Prepared:	12/09/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/11/06 17:55	Instrument:	JVGCMS1		
Batch:	6L08023	Sequence:	BA00115	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-87-2	Methyl cyclohexane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
60-29-7	Diethyl ether	1.0	U
76-13-1	Freon 113	1.0	U
NA	Xylenes (Total)	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	44.8	90	85 - 115	
Toluene-d8	50.0	47.2	94	85 - 120	
4-Bromofluorobenzene	50.0	43.5	87	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	420135	11.43	440420	11.42	
1,4-Difluorobenzene	872987	12.09	903995	12.08	
Chlorobenzene-d5	777987	15.27	796147	15.26	
1,4-Dichlorobenzene-d4	311610	17.45	330071	17.45	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L12026-BLK1	File ID:	7LG004.D
Prepared:	12/12/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/12/06 12:03	Instrument:	JVGCMS1		
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	2.04	J
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	Methyl-tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	0.4	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
110-82-7	Cyclohexane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-20-9	Methyl acetate	1.0	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L12026-BLK1	File ID:	7LG004.D
Prepared:	12/12/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/12/06 12:03	Instrument:	JVGCMS1		
Batch:	6L12026	Sequence:	BA00118	Calibration:	0612011

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-87-2	Methyl cyclohexane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.210	J
60-29-7	Diethyl ether	1.0	U
76-13-1	Freon 113	1.0	U
NA	Xylenes (Total)	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	45.0	90	85 - 115	
Toluene-d8	50.0	45.9	92	85 - 120	
4-Bromofluorobenzene	50.0	43.0	86	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	410118	11.43	421640	11.43	
1,4-Difluorobenzene	855728	12.09	856095	12.09	
Chlorobenzene-d5	746861	15.28	776355	15.27	
1,4-Dichlorobenzene-d4	305191	17.46	311791	17.45	

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08004-BLK1	File ID:	5LM022.D
Prepared:	12/08/06 11:14	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/19/06 00:14	Instrument:	JSVGCMS1		
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	10	U
106-44-5	3 & 4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08004-BLK1	File ID:	5LM022.D
Prepared:	12/08/06 11:14	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/19/06 00:14	Instrument:	JSVGCMS1		
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
92-52-4	1,1'-Biphenyl	10	U
1912-24-9	Atrazine	10	U
85-68-7	Butylbenzylphthalate	10	U
100-52-7	Benzaldehyde	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
105-60-2	Caprolactam	10	U
56-55-3	Benzo(a)anthracene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08004-BLK1	File ID:	5LM022.D
Prepared:	12/08/06 11:14	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/19/06 00:14	Instrument:	JSVGCMS1		
Batch:	6L08004	Sequence:	BA00104	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
98-86-2	Acetophenone	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	34.9	35	20 - 110	
Nitrobenzene-d5	50.0	40.3	81	40 - 110	
2-Fluorobiphenyl	50.0	37.3	75	50 - 110	
2,4,6-Tribromophenol	100	93.3	93	40 - 125	
Terphenyl-d14	50.0	46.3	93	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	206873	4.77	226546	4.77	
Naphthalene-d8	690130	5.97	766895	5.97	
Acenaphthene-d10	468102	7.7	511088	7.7	
Phenanthrene-d10	800663	9.2	871153	9.2	
Chrysene-d12	960702	11.85	979468	11.85	
Perylene-d12	1033899	13.24	826548	13.24	

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L12004-BLK1	File ID:	5LL005.D
Prepared:	12/12/06 07:55	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/17/06 14:59	Instrument:	JSVGCMS1		
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	10	U
106-44-5	3 & 4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L12004-BLK1	File ID:	5LL005.D
Prepared:	12/12/06 07:55	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/17/06 14:59	Instrument:	JSVGCMS1		
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	2-Methyl-4,6-dinitrophenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
92-52-4	1,1'-Biphenyl	10	U
1912-24-9	Atrazine	10	U
85-68-7	Butylbenzylphthalate	10	U
100-52-7	Benzaldehyde	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
105-60-2	Caprolactam	10	U
56-55-3	Benzo(a)anthracene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L12004-BLK1	File ID:	5LL005.D
Prepared:	12/12/06 07:55	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	12/17/06 14:59	Instrument:	JSVGCMS1		
Batch:	6L12004	Sequence:	BA00101	Calibration:	0612007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
98-86-2	Acetophenone	10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	69.1	69	20 - 110	
Nitrobenzene-d5	50.0	56.1	112	40 - 110	*
2-Fluorobiphenyl	50.0	50.1	100	50 - 110	
2,4,6-Tribromophenol	100	141	141	40 - 125	*
Terphenyl-d14	50.0	61.4	123	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	176805	4.78	183809	4.78	
Naphthalene-d8	583354	5.98	642908	5.98	
Acenaphthene-d10	381926	7.71	423940	7.71	
Phenanthrene-d10	665887	9.2	727271	9.2	
Chrysene-d12	742017	11.85	758681	11.86	
Perylene-d12	755798	13.25	606423	13.25	

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08023
Laboratory ID: 6L08023-BS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	26.9	135	30 - 155
Chloromethane	20.0	24.0	120	40 - 125
Vinyl chloride	20.0	22.2	111	50 - 145
Bromomethane	20.0	20.5	102	30 - 145
Chloroethane	20.0	20.3	102	60 - 135
Trichlorofluoromethane	20.0	20.7	103	60 - 145
1,1-Dichloroethene	20.0	16.9	85	70 - 130
Acetone	50.0	40.5	81	40 - 140
Carbon disulfide	20.0	16.9	84	35 - 160
Methylene Chloride	20.0	17.4	87	55 - 140
Methyl-tert-Butyl Ether	20.0	16.9	84	65 - 125
trans-1,2-Dichloroethene	20.0	17.4	87	60 - 140
1,1-Dichloroethane	20.0	17.9	89	70 - 135
2-Butanone	50.0	41.0	82	30 - 150
cis-1,2-Dichloroethene	20.0	16.9	85	70 - 125
Chloroform	20.0	16.2	81	65 - 135
1,1,1-Trichloroethane	20.0	17.0	85	65 - 130
Carbon Tetrachloride	20.0	16.7	84	65 - 140
1,2-Dichloroethane	20.0	16.0	80	70 - 130
Benzene	20.0	18.4	92	80 - 120
Trichloroethene	20.0	17.1	86	70 - 125
1,2-Dichloropropane	20.0	19.5	98	75 - 125
Bromodichloromethane	20.0	15.6	78	75 - 102
cis-1,3-Dichloropropene	20.0	17.8	89	70 - 130
4-Methyl-2-pentanone	50.0	39.0	78	60 - 135
Toluene	20.0	20.0	100	75 - 120
trans-1,3-Dichloropropene	20.0	21.8	109	55 - 140
1,1,2-Trichloroethane	20.0	18.2	91	75 - 125
Tetrachloroethene	20.0	11.3	57	45 - 150
2-Hexanone	50.0	46.9	94	55 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08023
Laboratory ID: 6L08023-BS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	20.0	18.4	92	54 - 120
1,2-Dibromoethane	20.0	17.7	89	80 - 120
Chlorobenzene	20.0	19.7	98	80 - 120
Ethylbenzene	20.0	19.5	98	75 - 125
m,p-Xylenes	40.0	38.7	97	75 - 130
o-Xylene	20.0	19.2	96	80 - 120
Styrene	20.0	17.7	89	65 - 135
Bromoform	20.0	17.0	85	70 - 130
Isopropylbenzene	20.0	21.9	109	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.4	97	65 - 130
1,3-Dichlorobenzene	20.0	19.5	98	75 - 125
1,4-Dichlorobenzene	20.0	20.8	104	75 - 125
1,2-Dichlorobenzene	20.0	20.0	100	70 - 120
1,2-Dibromo-3-chloropropane	20.0	18.8	94	50 - 130
1,2,4-Trichlorobenzene	20.0	20.3	102	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L12026
Laboratory ID: 6L12026-BS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	20.7	103	30 - 155
Chloromethane	20.0	19.2	96	40 - 125
Vinyl chloride	20.0	19.8	99	50 - 145
Bromomethane	20.0	17.8	89	30 - 145
Chloroethane	20.0	19.8	99	60 - 135
Trichlorofluoromethane	20.0	18.8	94	60 - 145
1,1-Dichloroethene	20.0	15.5	77	70 - 130
Acetone	50.0	37.0	74	40 - 140
Carbon disulfide	20.0	15.4	77	35 - 160
Methylene Chloride	20.0	16.7	83	55 - 140
Methyl-tert-Butyl Ether	20.0	16.2	81	65 - 125
trans-1,2-Dichloroethene	20.0	16.5	83	60 - 140
1,1-Dichloroethane	20.0	16.1	81	70 - 135
2-Butanone	50.0	35.6	71	30 - 150
cis-1,2-Dichloroethene	20.0	15.4	77	70 - 125
Chloroform	20.0	14.9	74	65 - 135
1,1,1-Trichloroethane	20.0	15.0	75	65 - 130
Carbon Tetrachloride	20.0	16.3	82	65 - 140
1,2-Dichloroethane	20.0	14.5	72	70 - 130
Benzene	20.0	17.0	85	80 - 120
Trichloroethene	20.0	16.3	81	70 - 125
1,2-Dichloropropane	20.0	16.8	84	75 - 125
Bromodichloromethane	20.0	14.2	71 *	75 - 102
cis-1,3-Dichloropropene	20.0	17.5	87	70 - 130
4-Methyl-2-pentanone	50.0	38.4	77	60 - 135
Toluene	20.0	19.0	95	75 - 120
trans-1,3-Dichloropropene	20.0	21.3	107	55 - 140
1,1,2-Trichloroethane	20.0	18.2	91	75 - 125
Tetrachloroethene	20.0	12.0	60	45 - 150
2-Hexanone	50.0	42.7	85	55 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L12026	Laboratory ID:	6L12026-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	20.0	17.5	88	54 - 120
1,2-Dibromoethane	20.0	18.0	90	80 - 120
Chlorobenzene	20.0	18.9	94	80 - 120
Ethylbenzene	20.0	18.8	94	75 - 125
m,p-Xylenes	40.0	37.4	93	75 - 130
o-Xylene	20.0	18.7	94	80 - 120
Styrene	20.0	17.1	85	65 - 135
Bromoform	20.0	17.3	86	70 - 130
Isopropylbenzene	20.0	20.6	103	75 - 125
1,1,2,2-Tetrachloroethane	20.0	17.7	88	65 - 130
1,3-Dichlorobenzene	20.0	19.9	100	75 - 125
1,4-Dichlorobenzene	20.0	20.0	100	75 - 125
1,2-Dichlorobenzene	20.0	19.2	96	70 - 120
1,2-Dibromo-3-chloropropane	20.0	18.4	92	50 - 130
1,2,4-Trichlorobenzene	20.0	19.7	98	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L12004	Laboratory ID:	6L12004-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

12-17 @ 15:23

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	35.9	72	35 - 110
2-Chlorophenol	50.0	27.2	54	35 - 105
2-Methylphenol	50.0	23.0	46	40 - 110
Bis(2-chloroisopropyl)ether	50.0	44.8	90	25 - 130
3 & 4-Methylphenol	50.0	21.0	42	30 - 110
N-Nitroso-di-n-propylamine	50.0	42.4	85	35 - 130
Hexachloroethane	50.0	36.3	73	30 - 95
Nitrobenzene	50.0	45.2	90	45 - 110
Isophorone	50.0	46.9	94	50 - 110
2-Nitrophenol	50.0	39.0	78	40 - 115
2,4-Dimethylphenol	50.0	35.2	70	30 - 110
Bis(2-chloroethoxy)methane	50.0	43.6	87	45 - 105
2,4-Dichlorophenol	50.0	37.8	76	50 - 105
Naphthalene	50.0	39.4	79	40 - 100
4-Chloroaniline	50.0	83.4	167 *	15 - 110
Hexachlorobutadiene	50.0	42.5	85	25 - 105
4-Chloro-3-methylphenol	50.0	35.2	70	45 - 110
2-Methylnaphthalene	50.0	39.6	79	45 - 105
2,4,6-Trichlorophenol	50.0	41.8	84	50 - 115
2,4,5-Trichlorophenol	50.0	42.0	84	50 - 110
2-Chloronaphthalene	50.0	39.6	79	50 - 105
2-Nitroaniline	50.0	53.4	107	50 - 115
Dimethylphthalate	50.0	45.1	90	25 - 125
2,6-Dinitrotoluene	50.0	42.0	84	50 - 115
Acenaphthylene	50.0	44.0	88	50 - 105
3-Nitroaniline	50.0	156	312 *	20 - 125
Acenaphthene	50.0	41.6	83	45 - 110
2,4-Dinitrophenol	50.0	32.0	64	15 - 140
2,4-Dinitrotoluene	50.0	43.2	86	50 - 120
Diethylphthalate	50.0	45.3	91	40 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L12004	Laboratory ID:	6L12004-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
4-Chlorophenyl-phenylether	50.0	44.7	89	50 - 110
Fluorene	50.0	43.8	88	50 - 110
4-Nitroaniline	50.0	103	206 *	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	36.2	72	40 - 130
N-Nitrosodiphenylamine	50.0	70.3	141 *	50 - 110
Hexachlorobenzene	50.0	47.6	95	50 - 110
Pentachlorophenol	50.0	43.6	87	40 - 115
Phenanthrene	50.0	46.0	92	50 - 115
Anthracene	50.0	45.4	91	55 - 110
Carbazole	50.0	146	291 *	50 - 115
Di-n-butylphthalate	50.0	45.8	92	55 - 115
Fluoranthene	50.0	47.0	94	55 - 115
Pyrene	50.0	47.2	94	50 - 130
Butylbenzylphthalate	50.0	47.3	95	45 - 115
Benzo(a)anthracene	50.0	44.5	89	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	48.2	96	40 - 125
Chrysene	50.0	44.6	89	55 - 110
Di-n-octylphthalate	50.0	46.4	93	35 - 135
Benzo(b)fluoranthene	50.0	46.9	94	45 - 120
Benzo(k)fluoranthene	50.0	47.4	95	45 - 125
Benzo(a)pyrene	50.0	45.1	90	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	45.9	92	45 - 125
Dibenzo(a,h)anthracene	50.0	44.1	88	40 - 125
Benzo(g,h,i)perylene	50.0	42.2	84	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L08004	Laboratory ID:	6L08004-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	36.8	74	35 - 110
2-Chlorophenol	50.0	31.9	64	35 - 100
2-Methylphenol	50.0	30.0	60	40 - 100
Bis(2-chloroisopropyl)ether	50.0	44.9	90	25 - 130
3 & 4-Methylphenol	50.0	29.2	58	30 - 110
N-Nitroso-di-n-propylamine	50.0	44.6	89	35 - 115
Hexachloroethane	50.0	37.7	75	35 - 110
Nitrobenzene	50.0	42.9	86	40 - 115
Isophorone	50.0	45.2	90	45 - 110
2-Nitrophenol	50.0	35.7	71	40 - 115
2,4-Dimethylphenol	50.0	37.7	75	30 - 110
Bis(2-chloroethoxy)methane	50.0	41.4	83	45 - 105
2,4-Dichlorophenol	50.0	40.5	81	50 - 105
Naphthalene	50.0	39.3	79	40 - 100
4-Chloroaniline	50.0	54.1	108	15 - 110
Hexachlorobutadiene	50.0	44.3	89	40 - 115
4-Chloro-3-methylphenol	50.0	39.4	79	45 - 110
2-Methylnaphthalene	50.0	41.5	83	45 - 105
2,4,6-Trichlorophenol	50.0	41.2	82	50 - 115
2,4,5-Trichlorophenol	50.0	39.8	80	50 - 115
2-Chloronaphthalene	50.0	39.9	80	45 - 105
2-Nitroaniline	50.0	51.3	103	45 - 120
Dimethylphthalate	50.0	43.2	86	25 - 125
2,6-Dinitrotoluene	50.0	39.2	78	50 - 110
Acenaphthylene	50.0	43.1	86	50 - 105
3-Nitroaniline	50.0	113	226 *	25 - 110
Acenaphthene	50.0	41.9	84	45 - 108
2,4-Dinitrophenol	50.0	32.7	65	15 - 140
2,4-Dinitrotoluene	50.0	41.9	84	50 - 115
Diethylphthalate	50.0	42.8	86	40 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L08004	Laboratory ID:	6L08004-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
4-Chlorophenyl-phenylether	50.0	43.4	87	45 - 110
Fluorene	50.0	42.9	86	50 - 110
4-Nitroaniline	50.0	82.4	165 *	35 - 115
2-Methyl-4,6-dinitrophenol	50.0	34.3	69	40 - 130
N-Nitrosodiphenylamine	50.0	65.2	130 *	50 - 110
Hexachlorobenzene	50.0	46.6	93	45 - 120
Pentachlorophenol	50.0	42.8	86	40 - 115
Phenanthrene	50.0	45.5	91	50 - 115
Anthracene	50.0	45.0	90	55 - 110
Carbazole	50.0	129	257 *	45 - 115
Di-n-butylphthalate	50.0	45.2	90	55 - 115
Fluoranthene	50.0	47.1	94	55 - 115
Pyrene	50.0	47.4	95	50 - 130
Butylbenzylphthalate	50.0	47.0	94	45 - 115
Benzo(a)anthracene	50.0	42.4	85	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	45.1	90	40 - 125
Chrysene	50.0	43.0	86	55 - 110
Di-n-octylphthalate	50.0	42.7	85	35 - 135
Benzo(b)fluoranthene	50.0	43.9	88	45 - 120
Benzo(k)fluoranthene	50.0	45.6	91	55 - 110
Benzo(a)pyrene	50.0	43.9	88	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	46.7	93	45 - 125
Dibenzo(a,h)anthracene	50.0	45.1	90	40 - 125
Benzo(g,h,i)perylene	50.0	42.4	85	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-8

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08023
Laboratory ID: 6L08023-MS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	ND	32.9	164 *	30 - 155
Chloromethane	20.0	ND	29.8	149 *	40 - 125
Vinyl chloride	20.0	ND	28.4	142	50 - 145
Bromomethane	20.0	-5.22	26.1	157 *	30 - 145
Chloroethane	20.0	ND	26.2	131	60 - 135
Trichlorofluoromethane	20.0	ND	24.9	125	60 - 145
1,1-Dichloroethene	20.0	ND	19.6	98	70 - 130
Acetone	50.0	ND	52.9	106	40 - 140
Carbon disulfide	20.0	ND	21.1	106	35 - 160
Methylene Chloride	20.0	ND	21.5	107	55 - 140
Methyl-tert-Butyl Ether	20.0	ND	21.6	108	65 - 125
trans-1,2-Dichloroethene	20.0	ND	21.9	110	60 - 140
1,1-Dichloroethane	20.0	ND	21.2	106	70 - 135
2-Butanone	50.0	ND	47.9	96	30 - 150
cis-1,2-Dichloroethene	20.0	ND	19.8	99	70 - 125
Chloroform	20.0	ND	19.8	99	65 - 135
1,1,1-Trichloroethane	20.0	ND	20.6	103	65 - 130
Carbon Tetrachloride	20.0	ND	20.5	103	65 - 140
1,2-Dichloroethane	20.0	ND	19.1	96	70 - 130
Benzene	20.0	ND	22.1	110	80 - 120
Trichloroethene	20.0	ND	20.1	101	70 - 125
1,2-Dichloropropane	20.0	ND	22.4	112	75 - 125
Bromodichloromethane	20.0	ND	19.2	96	75 - 120
cis-1,3-Dichloropropene	20.0	ND	22.0	110	70 - 130
4-Methyl-2-pentanone	50.0	ND	49.6	99	60 - 135
Toluene	20.0	ND	23.5	118	75 - 120
trans-1,3-Dichloropropene	20.0	ND	26.7	133	55 - 140
1,1,2-Trichloroethane	20.0	ND	22.3	111	75 - 125
Tetrachloroethene	20.0	ND	16.4	82	45 - 150
2-Hexanone	50.0	ND	64.0	128	55 - 130
Dibromochloromethane	20.0	ND	22.8	114	60 - 136
1,2-Dibromoethane	20.0	ND	23.7	119	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-8

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08023
Laboratory ID: 6L08023-MS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Chlorobenzene	20.0	ND	24.9	124 *	80 - 120
Ethylbenzene	20.0	ND	23.0	115	75 - 125
m,p-Xylenes	40.0	ND	48.8	122	75 - 130
o-Xylene	20.0	ND	24.1	120	80 - 120
Styrene	20.0	ND	23.2	116	65 - 135
Bromoform	20.0	ND	21.5	108	70 - 130
Isopropylbenzene	20.0	ND	26.4	132 *	75 - 125
1,1,2,2-Tetrachloroethane	20.0	ND	25.6	128	65 - 130
1,3-Dichlorobenzene	20.0	ND	25.0	125	75 - 125
1,4-Dichlorobenzene	20.0	ND	25.3	127 *	75 - 125
1,2-Dichlorobenzene	20.0	ND	25.0	125 *	70 - 120
1,2-Dibromo-3-chloropropane	20.0	ND	23.9	119	50 - 130
1,2,4-Trichlorobenzene	20.0	ND	24.5	122	65 - 135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	33.7	168 *	2	30	30 - 155
Chloromethane	20.0	29.2	146 *	2	30	40 - 125
Vinyl chloride	20.0	28.2	141	0.5	30	50 - 145
Bromomethane	20.0	25.8	155 *	1	30	30 - 145
Chloroethane	20.0	25.8	129	1	30	60 - 135
Trichlorofluoromethane	20.0	25.5	127	2	30	60 - 145
1,1-Dichloroethene	20.0	20.8	104	6	30	70 - 130
Acetone	50.0	47.0	94	12	30	40 - 140
Carbon disulfide	20.0	20.5	102	3	30	35 - 160
Methylene Chloride	20.0	22.1	110	3	30	55 - 140
Methyl-tert-Butyl Ether	20.0	20.4	102	6	30	65 - 125
trans-1,2-Dichloroethene	20.0	21.2	106	3	30	60 - 140
1,1-Dichloroethane	20.0	21.4	107	0.9	30	70 - 135
2-Butanone	50.0	49.8	100	4	30	30 - 150
cis-1,2-Dichloroethene	20.0	20.5	103	3	30	70 - 125
Chloroform	20.0	20.2	101	2	30	65 - 135

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-8

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08023
Laboratory ID: 6L08023-MSD1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-8

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	20.0	20.9	104	1	30	65 - 130
Carbon Tetrachloride	20.0	20.3	102	0.9	30	65 - 140
1,2-Dichloroethane	20.0	19.6	98	3	30	70 - 130
Benzene	20.0	22.2	111	0.4	30	80 - 120
Trichloroethene	20.0	20.9	105	4	30	70 - 125
1,2-Dichloropropane	20.0	22.6	113	0.6	30	75 - 125
Bromodichloromethane	20.0	19.5	97	1	30	75 - 120
cis-1,3-Dichloropropene	20.0	22.7	113	3	30	70 - 130
4-Methyl-2-pentanone	50.0	49.7	99	0.08	30	60 - 135
Toluene	20.0	24.2	121 *	3	30	75 - 120
trans-1,3-Dichloropropene	20.0	26.5	133	0.5	30	55 - 140
1,1,2-Trichloroethane	20.0	22.1	111	0.6	30	75 - 125
Tetrachloroethene	20.0	14.0	70	15	30	45 - 150
2-Hexanone	50.0	57.4	115	11	30	55 - 130
Dibromochloromethane	20.0	22.6	113	1	27	60 - 136
1,2-Dibromoethane	20.0	23.3	116	2	30	80 - 120
Chlorobenzene	20.0	24.8	124 *	0.6	30	80 - 120
Ethylbenzene	20.0	24.3	122	5	30	75 - 125
m,p-Xylenes	40.0	48.8	122	0.2	30	75 - 130
o-Xylene	20.0	23.9	120	0.5	30	80 - 120
Styrene	20.0	24.0	120	3	30	65 - 135
Bromoform	20.0	21.5	108	0.1	30	70 - 130
Isopropylbenzene	20.0	27.1	136 *	3	30	75 - 125
1,1,2,2-Tetrachloroethane	20.0	25.3	127	1	30	65 - 130
1,3-Dichlorobenzene	20.0	24.6	123	2	30	75 - 125
1,4-Dichlorobenzene	20.0	25.8	129 *	2	30	75 - 125
1,2-Dichlorobenzene	20.0	25.9	129 *	3	30	70 - 120
1,2-Dibromo-3-chloropropane	20.0	23.6	118	1	30	50 - 130
1,2,4-Trichlorobenzene	20.0	25.7	128	5	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-10

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L12026
Laboratory ID: 6L12026-MS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	ND	24.8	124	30 - 155
Chloromethane	20.0	ND	24.4	122	40 - 125
Vinyl chloride	20.0	ND	24.8	124	50 - 145
Bromomethane	20.0	-5.09	21.4	132	30 - 145
Chloroethane	20.0	ND	21.8	109	60 - 135
Trichlorofluoromethane	20.0	ND	22.0	110	60 - 145
1,1-Dichloroethene	20.0	ND	19.1	96	70 - 130
Acetone	50.0	2.08	45.1	86	40 - 140
Carbon disulfide	20.0	ND	18.8	94	35 - 160
Methylene Chloride	20.0	-0.250	19.0	96	55 - 140
Methyl-tert-Butyl Ether	20.0	ND	19.2	96	65 - 125
trans-1,2-Dichloroethene	20.0	ND	19.9	100	60 - 140
1,1-Dichloroethane	20.0	ND	18.7	93	70 - 135
2-Butanone	50.0	ND	44.5	89	30 - 150
cis-1,2-Dichloroethene	20.0	ND	18.4	92	70 - 125
Chloroform	20.0	ND	18.1	90	65 - 135
1,1,1-Trichloroethane	20.0	ND	18.0	90	65 - 130
Carbon Tetrachloride	20.0	ND	20.2	101	65 - 140
1,2-Dichloroethane	20.0	ND	17.6	88	70 - 130
Benzene	20.0	ND	20.8	104	80 - 120
Trichloroethene	20.0	ND	20.3	102	70 - 125
1,2-Dichloropropane	20.0	ND	20.1	101	75 - 125
Bromodichloromethane	20.0	ND	17.9	90	75 - 120
cis-1,3-Dichloropropene	20.0	ND	20.8	104	70 - 130
4-Methyl-2-pentanone	50.0	ND	46.2	92	60 - 135
Toluene	20.0	ND	22.9	114	75 - 120
trans-1,3-Dichloropropene	20.0	ND	25.5	127	55 - 140
1,1,2-Trichloroethane	20.0	ND	22.1	110	75 - 125
Tetrachloroethene	20.0	ND	17.5	88	45 - 150
2-Hexanone	50.0	ND	49.9	100	55 - 130
Dibromochloromethane	20.0	ND	20.3	102	60 - 136
1,2-Dibromoethane	20.0	ND	21.7	108	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-10

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L12026
Laboratory ID: 6L12026-MS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Chlorobenzene	20.0	ND	23.3	116	80 - 120
Ethylbenzene	20.0	ND	22.9	114	75 - 125
m,p-Xylenes	40.0	ND	45.4	114	75 - 130
o-Xylene	20.0	ND	22.6	113	80 - 120
Styrene	20.0	ND	20.6	103	65 - 135
Bromoform	20.0	ND	19.7	98	70 - 130
Isopropylbenzene	20.0	ND	25.1	126 *	75 - 125
1,1,2,2-Tetrachloroethane	20.0	ND	21.4	107	65 - 130
1,3-Dichlorobenzene	20.0	ND	23.4	117	75 - 125
1,4-Dichlorobenzene	20.0	ND	24.6	123	75 - 125
1,2-Dichlorobenzene	20.0	ND	23.6	118	70 - 120
1,2-Dibromo-3-chloropropane	20.0	ND	23.7	119	50 - 130
1,2,4-Trichlorobenzene	20.0	0.210	23.0	114	65 - 135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	26.1	130	5	30	30 - 155
Chloromethane	20.0	24.9	124	2	30	40 - 125
Vinyl chloride	20.0	23.9	120	4	30	50 - 145
Bromomethane	20.0	24.1	146 *	12	30	30 - 145
Chloroethane	20.0	22.9	115	5	30	60 - 135
Trichlorofluoromethane	20.0	24.0	120	9	30	60 - 145
1,1-Dichloroethene	20.0	19.8	99	4	30	70 - 130
Acetone	50.0	45.9	88	2	30	40 - 140
Carbon disulfide	20.0	19.6	98	4	30	35 - 160
Methylene Chloride	20.0	20.5	104	8	30	55 - 140
Methyl-tert-Butyl Ether	20.0	20.0	100	4	30	65 - 125
trans-1,2-Dichloroethene	20.0	21.3	106	7	30	60 - 140
1,1-Dichloroethane	20.0	20.6	103	10	30	70 - 135
2-Butanone	50.0	46.2	92	4	30	30 - 150
cis-1,2-Dichloroethene	20.0	20.0	100	8	30	70 - 125
Chloroform	20.0	19.2	96	6	30	65 - 135

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-10

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L12026
Laboratory ID: 6L12026-MSD1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: MW-10

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	20.0	19.3	97	7	30	65 - 130
Carbon Tetrachloride	20.0	20.9	105	4	30	65 - 140
1,2-Dichloroethane	20.0	18.5	93	5	30	70 - 130
Benzene	20.0	21.7	108	4	30	80 - 120
Trichloroethene	20.0	21.4	107	5	30	70 - 125
1,2-Dichloropropane	20.0	21.8	109	8	30	75 - 125
Bromodichloromethane	20.0	19.1	95	6	30	75 - 120
cis-1,3-Dichloropropene	20.0	22.3	111	7	30	70 - 130
4-Methyl-2-pentanone	50.0	49.0	98	6	30	60 - 135
Toluene	20.0	23.9	120	4	30	75 - 120
trans-1,3-Dichloropropene	20.0	26.3	132	3	30	55 - 140
1,1,2-Trichloroethane	20.0	23.0	115	4	30	75 - 125
Tetrachloroethene	20.0	16.8	84	4	30	45 - 150
2-Hexanone	50.0	54.7	109	9	30	55 - 130
Dibromochloromethane	20.0	22.7	113	11	27	60 - 136
1,2-Dibromoethane	20.0	23.2	116	7	30	80 - 120
Chlorobenzene	20.0	24.6	123 *	6	30	80 - 120
Ethylbenzene	20.0	24.1	120	5	30	75 - 125
m,p-Xylenes	40.0	48.5	121	6	30	75 - 130
o-Xylene	20.0	22.6	113	0.3	30	80 - 120
Styrene	20.0	22.3	111	8	30	65 - 135
Bromoform	20.0	22.4	112	13	30	70 - 130
Isopropylbenzene	20.0	26.1	130 *	4	30	75 - 125
1,1,2,2-Tetrachloroethane	20.0	22.9	114	7	30	65 - 130
1,3-Dichlorobenzene	20.0	25.1	125	7	30	75 - 125
1,4-Dichlorobenzene	20.0	26.1	131 *	6	30	75 - 125
1,2-Dichlorobenzene	20.0	25.7	128 *	8	30	70 - 120
1,2-Dibromo-3-chloropropane	20.0	24.8	124	4	30	50 - 130
1,2,4-Trichlorobenzene	20.0	25.9	128	12	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08004
Laboratory ID: 6L08004-MS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	ND	36.4	73	35 - 110
2-Chlorophenol	50.0	ND	31.0	62	10 - 126
2-Methylphenol	50.0	ND	28.3	57	40 - 110
Bis(2-chloroisopropyl)ether	50.0	ND	43.4	87	25 - 130
3 & 4-Methylphenol	50.0	ND	26.2	52	30 - 110
N-Nitroso-di-n-propylamine	50.0	ND	42.2	84	10 - 115
Hexachloroethane	50.0	ND	36.6	73	30 - 95
Nitrobenzene	50.0	ND	42.5	85	45 - 110
Isophorone	50.0	ND	43.8	88	50 - 110
2-Nitrophenol	50.0	ND	35.9	72	40 - 115
2,4-Dimethylphenol	50.0	ND	33.6	67	30 - 110
Bis(2-chloroethoxy)methane	50.0	ND	39.6	79	45 - 105
2,4-Dichlorophenol	50.0	ND	38.1	76	50 - 105
Naphthalene	50.0	ND	37.4	75	40 - 100
4-Chloroaniline	50.0	ND	53.3	107	15 - 110
Hexachlorobutadiene	50.0	ND	42.8	86	25 - 105
4-Chloro-3-methylphenol	50.0	ND	37.4	75	18 - 151
2-Methylnaphthalene	50.0	ND	39.6	79	45 - 105
2,4,6-Trichlorophenol	50.0	ND	38.5	77	50 - 115
2,4,5-Trichlorophenol	50.0	ND	39.3	79	50 - 110
2-Chloronaphthalene	50.0	ND	38.0	76	50 - 105
2-Nitroaniline	50.0	ND	50.3	101	50 - 115
Dimethylphthalate	50.0	ND	40.7	81	25 - 125
2,6-Dinitrotoluene	50.0	ND	39.5	79	50 - 115
Acenaphthylene	50.0	ND	42.0	84	50 - 105
3-Nitroaniline	50.0	ND	115	231 *	20 - 125
Acenaphthene	50.0	ND	39.9	80	15 - 137
2,4-Dinitrophenol	50.0	ND	32.7	65	15 - 140
2,4-Dinitrotoluene	50.0	ND	40.3	81	19 - 160
Diethylphthalate	50.0	ND	41.8	84	40 - 120
4-Chlorophenyl-phenylether	50.0	ND	41.5	83	50 - 110
Fluorene	50.0	ND	40.8	82	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08004
Laboratory ID: 6L08004-MS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
4-Nitroaniline	50.0	ND	73.0	146 *	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	ND	35.6	71	40 - 130
N-Nitrosodiphenylamine	50.0	ND	63.0	126 *	50 - 110
Hexachlorobenzene	50.0	ND	44.7	89	50 - 110
Pentachlorophenol	50.0	ND	43.0	86	10 - 211
Phenanthrene	50.0	ND	42.6	85	50 - 115
Anthracene	50.0	ND	42.8	86	55 - 110
Carbazole	50.0	ND	122	245 *	50 - 115
Di-n-butylphthalate	50.0	ND	43.2	86	55 - 115
Fluoranthene	50.0	ND	44.7	89	55 - 115
Pyrene	50.0	ND	44.6	89	18 - 195
Butylbenzylphthalate	50.0	ND	44.5	89	45 - 115
Benzo(a)anthracene	50.0	ND	41.3	83	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	ND	43.0	86	40 - 125
Chrysene	50.0	ND	40.9	82	55 - 110
Di-n-octylphthalate	50.0	ND	41.1	82	35 - 135
Benzo(b)fluoranthene	50.0	ND	40.1	80	45 - 120
Benzo(k)fluoranthene	50.0	ND	44.2	88	45 - 125
Benzo(a)pyrene	50.0	ND	41.2	82	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	ND	43.9	88	45 - 125
Dibenzo(a,h)anthracene	50.0	ND	42.5	85	40 - 125
Benzo(g,h,i)perylene	50.0	ND	39.9	80	40 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	33.4	67	9	35	35 - 110
2-Chlorophenol	50.0	28.1	56	10	41	10 - 126
2-Methylphenol	50.0	26.8	54	5	34	40 - 110
Bis(2-chloroisopropyl)ether	50.0	38.3	77	13	28	25 - 130
3 & 4-Methylphenol	50.0	24.8	50	6	32	30 - 110
N-Nitroso-di-n-propylamine	50.0	38.8	78	8	22	10 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08004
Laboratory ID: 6L08004-MSD1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachloroethane	50.0	31.8	64	14	35	30 - 95
Nitrobenzene	50.0	37.7	75	12	27	45 - 110
Isophorone	50.0	40.9	82	7	27	50 - 110
2-Nitrophenol	50.0	32.0	64	11	26	40 - 115
2,4-Dimethylphenol	50.0	30.0	60	11	26	30 - 110
Bis(2-chloroethoxy)methane	50.0	36.3	73	9	27	45 - 105
2,4-Dichlorophenol	50.0	34.2	68	11	30	50 - 105
Naphthalene	50.0	33.7	67	10	35	40 - 100
4-Chloroaniline	50.0	50.8	102	5	30	15 - 110
Hexachlorobutadiene	50.0	37.5	75	13	31	25 - 105
4-Chloro-3-methylphenol	50.0	35.4	71	6	22	18 - 151
2-Methylnaphthalene	50.0	36.8	74	7	35	45 - 105
2,4,6-Trichlorophenol	50.0	38.2	76	0.8	25	50 - 115
2,4,5-Trichlorophenol	50.0	36.7	73	7	32	50 - 110
2-Chloronaphthalene	50.0	36.2	72	5	32	50 - 105
2-Nitroaniline	50.0	49.4	99	2	23	50 - 115
Dimethylphthalate	50.0	41.7	83	2	24	25 - 125
2,6-Dinitrotoluene	50.0	38.9	78	2	24	50 - 115
Acenaphthylene	50.0	40.2	80	5	26	50 - 105
3-Nitroaniline	50.0	115	229 *	0.7	35	20 - 125
Acenaphthene	50.0	39.0	78	2	28	15 - 137
2,4-Dinitrophenol	50.0	32.0	64	2	22	15 - 140
2,4-Dinitrotoluene	50.0	41.2	82	2	21	19 - 160
Diethylphthalate	50.0	42.0	84	0.3	22	40 - 120
4-Chlorophenyl-phenylether	50.0	41.9	84	1	26	50 - 110
Fluorene	50.0	40.8	82	0.1	24	50 - 110
4-Nitroaniline	50.0	68.3	137 *	7	35	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	36.4	73	2	32	40 - 130
N-Nitrosodiphenylamine	50.0	62.5	125 *	0.9	22	50 - 110
Hexachlorobenzene	50.0	45.0	90	0.7	23	50 - 110
Pentachlorophenol	50.0	40.8	82	5	50	10 - 211
Phenanthrene	50.0	43.2	86	1	22	50 - 115
Anthracene	50.0	43.1	86	0.6	30	55 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08004
Laboratory ID: 6L08004-MSD1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Carbazole	50.0	121	243 *	0.9	25	50 - 115
Di-n-butylphthalate	50.0	43.6	87	0.9	19	55 - 115
Fluoranthene	50.0	45.2	90	1	28	55 - 115
Pyrene	50.0	45.6	91	2	32	18 - 195
Butylbenzylphthalate	50.0	45.0	90	1	29	45 - 115
Benzo(a)anthracene	50.0	40.5	81	2	30	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	42.6	85	0.8	30	40 - 125
Chrysene	50.0	40.4	81	1	30	55 - 110
Di-n-octylphthalate	50.0	40.5	81	2	28	35 - 135
Benzo(b)fluoranthene	50.0	43.5	87	8	30	45 - 120
Benzo(k)fluoranthene	50.0	43.5	87	2	32	45 - 125
Benzo(a)pyrene	50.0	41.6	83	1	30	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	45.3	91	3	27	45 - 125
Dibenzo(a,h)anthracene	50.0	44.1	88	4	22	40 - 125
Benzo(g,h,i)perylene	50.0	40.5	81	2	25	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L12004
Laboratory ID: 6L12004-MS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	ND	39.3	79	35 - 110
2-Chlorophenol	50.0	ND	34.1	68	35 - 105
2-Methylphenol	50.0	ND	31.8	64	40 - 110
Bis(2-chloroisopropyl)ether	50.0	ND	49.1	98	25 - 130
3 & 4-Methylphenol	50.0	ND	29.5	59	30 - 110
N-Nitroso-di-n-propylamine	50.0	ND	47.7	95	35 - 130
Hexachloroethane	50.0	ND	38.8	78	30 - 95
Nitrobenzene	50.0	ND	46.2	92	45 - 110
Isophorone	50.0	ND	48.5	97	50 - 110
2-Nitrophenol	50.0	ND	41.2	82	40 - 115
2,4-Dimethylphenol	50.0	ND	38.2	76	30 - 110
Bis(2-chloroethoxy)methane	50.0	ND	44.4	89	45 - 105
2,4-Dichlorophenol	50.0	ND	42.6	85	50 - 105
Naphthalene	50.0	ND	41.0	82	40 - 100
4-Chloroaniline	50.0	ND	85.0	170 *	15 - 110
Hexachlorobutadiene	50.0	ND	44.0	88	25 - 105
4-Chloro-3-methylphenol	50.0	ND	40.9	82	45 - 110
2-Methylnaphthalene	50.0	ND	42.6	85	45 - 105
2,4,6-Trichlorophenol	50.0	ND	40.9	82	50 - 115
2,4,5-Trichlorophenol	50.0	ND	40.8	82	50 - 110
2-Chloronaphthalene	50.0	ND	38.4	77	50 - 105
2-Nitroaniline	50.0	ND	51.1	102	50 - 115
Dimethylphthalate	50.0	ND	42.6	85	25 - 125
2,6-Dinitrotoluene	50.0	ND	40.6	81	50 - 115
Acenaphthylene	50.0	ND	42.0	84	50 - 105
3-Nitroaniline	50.0	ND	139	277 *	20 - 125
Acenaphthene	50.0	ND	40.0	80	45 - 110
2,4-Dinitrophenol	50.0	ND	34.3	69	15 - 140
2,4-Dinitrotoluene	50.0	ND	40.8	82	50 - 120
Diethylphthalate	50.0	ND	42.6	85	40 - 120
4-Chlorophenyl-phenylether	50.0	ND	43.2	86	50 - 110
Fluorene	50.0	ND	41.9	84	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L12004
Laboratory ID: 6L12004-MS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
4-Nitroaniline	50.0	ND	92.0	184 *	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	ND	36.2	72	40 - 130
N-Nitrosodiphenylamine	50.0	ND	64.9	130 *	50 - 110
Hexachlorobenzene	50.0	ND	43.6	87	50 - 110
Pentachlorophenol	50.0	ND	41.5	83	40 - 115
Phenanthrene	50.0	ND	42.0	84	50 - 115
Anthracene	50.0	ND	41.2	82	55 - 110
Carbazole	50.0	ND	132	263 *	50 - 115
Di-n-butylphthalate	50.0	ND	42.0	84	55 - 115
Fluoranthene	50.0	ND	43.0	86	55 - 115
Pyrene	50.0	ND	43.4	87	50 - 130
Butylbenzylphthalate	50.0	ND	42.7	85	45 - 115
Benzo(a)anthracene	50.0	ND	40.4	81	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	ND	43.2	86	40 - 125
Chrysene	50.0	ND	40.5	81	55 - 110
Di-n-octylphthalate	50.0	ND	41.5	83	35 - 135
Benzo(b)fluoranthene	50.0	ND	44.1	88	45 - 120
Benzo(k)fluoranthene	50.0	ND	43.9	88	45 - 125
Benzo(a)pyrene	50.0	ND	41.5	83	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	ND	42.6	85	45 - 125
Dibenzo(a,h)anthracene	50.0	ND	41.7	83	40 - 125
Benzo(g,h,i)perylene	50.0	ND	39.0	78	40 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	37.4	75	5	30	35 - 110
2-Chlorophenol	50.0	30.6	61	11	30	35 - 105
2-Methylphenol	50.0	26.7	53	17	30	40 - 110
Bis(2-chloroisopropyl)ether	50.0	44.5	89	10	30	25 - 130
3 & 4-Methylphenol	50.0	23.9	48	21	30	30 - 110
N-Nitroso-di-n-propylamine	50.0	43.2	86	10	30	35 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L12004
Laboratory ID: 6L12004-MSD1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachloroethane	50.0	35.4	71	9	30	30 - 95
Nitrobenzene	50.0	45.5	91	1	30	45 - 110
Isophorone	50.0	46.4	93	4	30	50 - 110
2-Nitrophenol	50.0	39.4	79	5	30	40 - 115
2,4-Dimethylphenol	50.0	35.7	71	7	30	30 - 110
Bis(2-chloroethoxy)methane	50.0	43.8	88	1	30	45 - 105
2,4-Dichlorophenol	50.0	40.0	80	6	30	50 - 105
Naphthalene	50.0	40.0	80	3	30	40 - 100
4-Chloroaniline	50.0	78.2	156 *	8	30	15 - 110
Hexachlorobutadiene	50.0	43.2	86	2	30	25 - 105
4-Chloro-3-methylphenol	50.0	38.5	77	6	30	45 - 110
2-Methylnaphthalene	50.0	41.2	82	3	30	45 - 105
2,4,6-Trichlorophenol	50.0	43.3	87	6	30	50 - 115
2,4,5-Trichlorophenol	50.0	45.4	91	11	30	50 - 110
2-Chloronaphthalene	50.0	40.8	82	6	30	50 - 105
2-Nitroaniline	50.0	55.5	111	8	30	50 - 115
Dimethylphthalate	50.0	45.4	91	6	30	25 - 125
2,6-Dinitrotoluene	50.0	42.7	85	5	30	50 - 115
Acenaphthylene	50.0	45.4	91	8	30	50 - 105
3-Nitroaniline	50.0	149	297 *	7	30	20 - 125
Acenaphthene	50.0	43.4	87	8	30	45 - 110
2,4-Dinitrophenol	50.0	39.4	79	14	30	15 - 140
2,4-Dinitrotoluene	50.0	45.7	91	11	30	50 - 120
Diethylphthalate	50.0	46.4	93	8	30	40 - 120
4-Chlorophenyl-phenylether	50.0	45.7	91	6	30	50 - 110
Fluorene	50.0	44.9	90	7	30	50 - 110
4-Nitroaniline	50.0	114	229 *	22	30	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	43.1	86	17	30	40 - 130
N-Nitrosodiphenylamine	50.0	71.5	143 *	10	30	50 - 110
Hexachlorobenzene	50.0	47.3	95	8	30	50 - 110
Pentachlorophenol	50.0	44.6	89	7	30	40 - 115
Phenanthrene	50.0	45.2	90	7	30	50 - 115
Anthracene	50.0	45.1	90	9	30	55 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	6L12004	Laboratory ID:	6L12004-MSD1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Carbazole	50.0	145	290 *	9	30	50 - 115
Di-n-butylphthalate	50.0	45.7	91	9	30	55 - 115
Fluoranthene	50.0	47.0	94	9	30	55 - 115
Pyrene	50.0	47.5	95	9	30	50 - 130
Butylbenzylphthalate	50.0	47.5	95	11	30	45 - 115
Benzo(a)anthracene	50.0	44.2	88	9	30	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	47.2	94	9	30	40 - 125
Chrysene	50.0	44.8	90	10	30	55 - 110
Di-n-octylphthalate	50.0	46.1	92	11	30	35 - 135
Benzo(b)fluoranthene	50.0	45.4	91	3	30	45 - 120
Benzo(k)fluoranthene	50.0	49.1	98	11	30	45 - 125
Benzo(a)pyrene	50.0	44.8	90	7	30	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	47.1	94	10	30	45 - 125
Dibenzo(a,h)anthracene	50.0	45.0	90	8	30	40 - 125
Benzo(g,h,i)perylene	50.0	42.8	86	9	30	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00115	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L08023-BLK1)			Lab File ID: 7LD007.D		Analyzed: 12/08/06 12:38			
Dibromofluoromethane	50.0	94	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	95	85 - 120	13.6	13.63	-0.0300	+/-0.5	
4-Bromofluorobenzene	50.0	89	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-937MW4S-120106 (B610566-01)			Lab File ID: 7LD014.D		Analyzed: 12/08/06 16:13			
Dibromofluoromethane	50.0	95	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	87	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-937MW11S-120106 (B610566-03)			Lab File ID: 7LD016.D		Analyzed: 12/08/06 17:15			
Dibromofluoromethane	50.0	93	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	98	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	86	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-937MW14D-120106 (B610566-04)			Lab File ID: 7LD017.D		Analyzed: 12/08/06 17:45			
Dibromofluoromethane	50.0	93	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	98	85 - 120	13.6	13.63	-0.0300	+/-0.5	
4-Bromofluorobenzene	50.0	91	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-MW16D-120506 (B610567-01)			Lab File ID: 7LD018.D		Analyzed: 12/08/06 18:16			
Dibromofluoromethane	50.0	92	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	90	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-MW16S-120506 (B610567-02)			Lab File ID: 7LD019.D		Analyzed: 12/08/06 18:47			
Dibromofluoromethane	50.0	94	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	88	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-MW17D-120506 (B610567-03)			Lab File ID: 7LD020.D		Analyzed: 12/08/06 19:17			
Dibromofluoromethane	50.0	95	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	87	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-MW19S-120506 (B610567-05)			Lab File ID: 7LD022.D		Analyzed: 12/08/06 20:19			
Dibromofluoromethane	50.0	93	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	87	75 - 120	16.39	16.40833	-0.0183	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00115	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW23S-120506 (B610567-06)			Lab File ID: 7LD023.D		Analyzed: 12/08/06 20:50			
Dibromofluoromethane	50.0	93	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	89	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-MW24D-120506 (B610567-07)			Lab File ID: 7LD024.D		Analyzed: 12/08/06 21:20			
Dibromofluoromethane	50.0	93	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	88	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
Blank (6L08023-BLK2)			Lab File ID: 7LD030.D		Analyzed: 12/09/06 00:24			
Dibromofluoromethane	50.0	92	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	95	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	89	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-937MW4S-120106 (B610566-01RE1)			Lab File ID: 7LD031.D		Analyzed: 12/09/06 00:55			
Dibromofluoromethane	50.0	93	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	89	75 - 120	16.39	16.40833	-0.0183	+/-0.5	
JAX47-937MW11D-120106 (B610566-02)			Lab File ID: 7LD032.D		Analyzed: 12/09/06 01:25			
Dibromofluoromethane	50.0	93	85 - 115	10.86	10.89	-0.0300	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	87	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
Blank (6L08023-BLK3)			Lab File ID: 7LF004.D		Analyzed: 12/11/06 17:55			
Dibromofluoromethane	50.0	90	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	94	85 - 120	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	87	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX47-MW17S-120506 (B610567-04)			Lab File ID: 7LF005.D		Analyzed: 12/11/06 18:25			
Dibromofluoromethane	50.0	91	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	94	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	88	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX47-MW17D-120506 (B610567-03RE1)			Lab File ID: 7LF006.D		Analyzed: 12/11/06 18:56			
Dibromofluoromethane	50.0	89	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	93	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	89	75 - 120	16.4	16.40833	-0.0083	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00118	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L12026-BLK1)			Lab File ID: 7LG004.D		Analyzed: 12/12/06 12:03			
Dibromofluoromethane	50.0	90	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	92	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	86	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX47-MW12S-120806 (B610655-01)			Lab File ID: 7LG010.D		Analyzed: 12/12/06 15:37			
Dibromofluoromethane	50.0	93	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	93	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	87	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX47-MW14S-120806 (B610655-02)			Lab File ID: 7LG011.D		Analyzed: 12/12/06 16:08			
Dibromofluoromethane	50.0	93	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	85	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX47-MW25S-120806 (B610655-03)			Lab File ID: 7LG012.D		Analyzed: 12/12/06 16:39			
Dibromofluoromethane	50.0	92	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	86	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX47-MW26S-120806 (B610655-04)			Lab File ID: 7LG013.D		Analyzed: 12/12/06 17:09			
Dibromofluoromethane	50.0	93	85 - 115	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	97	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	87	75 - 120	16.4	16.40833	-0.0083	+/-0.5	
JAX47-MW28S-120806 (B610655-05)			Lab File ID: 7LG014.D		Analyzed: 12/12/06 17:40			
Dibromofluoromethane	50.0	90	85 - 115	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	96	85 - 120	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	86	75 - 120	16.4	16.40833	-0.0083	+/-0.5	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00115	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (6L08023-BLK1)			Lab File ID: 7LD007.D			Analyzed: 12/08/06 12:38			
Pentafluorobenzene	310844	11.42	326390	11.41	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	692353	12.08	711773	12.07	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	615145	15.26	641086	15.26	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	247420	17.45	262054	17.45	94	50 - 200	0.0000	+/-0.50	
JAX47-937MW4S-120106 (B610566-01)			Lab File ID: 7LD014.D			Analyzed: 12/08/06 16:13			
Pentafluorobenzene	283214	11.41	326390	11.41	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	602672	12.07	711773	12.07	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	569140	15.26	641086	15.26	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	225247	17.45	262054	17.45	86	50 - 200	0.0000	+/-0.50	
JAX47-937MW11S-120106 (B610566-03)			Lab File ID: 7LD016.D			Analyzed: 12/08/06 17:15			
Pentafluorobenzene	310548	11.42	326390	11.41	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	673570	12.08	711773	12.07	95	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	604063	15.26	641086	15.26	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	244238	17.44	262054	17.45	93	50 - 200	-0.0100	+/-0.50	
JAX47-937MW14D-120106 (B610566-04)			Lab File ID: 7LD017.D			Analyzed: 12/08/06 17:45			
Pentafluorobenzene	333083	11.42	326390	11.41	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	719391	12.08	711773	12.07	101	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	635749	15.26	641086	15.26	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	258414	17.45	262054	17.45	99	50 - 200	0.0000	+/-0.50	
JAX47-MW16D-120506 (B610567-01)			Lab File ID: 7LD018.D			Analyzed: 12/08/06 18:16			
Pentafluorobenzene	326736	11.41	326390	11.41	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	716290	12.07	711773	12.07	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	631218	15.26	641086	15.26	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	252134	17.45	262054	17.45	96	50 - 200	0.0000	+/-0.50	
JAX47-MW16S-120506 (B610567-02)			Lab File ID: 7LD019.D			Analyzed: 12/08/06 18:47			
Pentafluorobenzene	331194	11.42	326390	11.41	101	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	701356	12.08	711773	12.07	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	625589	15.26	641086	15.26	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	252970	17.44	262054	17.45	97	50 - 200	-0.0100	+/-0.50	
JAX47-MW17D-120506 (B610567-03)			Lab File ID: 7LD020.D			Analyzed: 12/08/06 19:17			
Pentafluorobenzene	320984	11.41	326390	11.41	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	699276	12.07	711773	12.07	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	634274	15.26	641086	15.26	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	250761	17.45	262054	17.45	96	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00115	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-MW19S-120506 (B610567-05)			Lab File ID: 7LD022.D			Analyzed: 12/08/06 20:19			
Pentafluorobenzene	325701	11.41	326390	11.41	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	700943	12.07	711773	12.07	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	643314	15.26	641086	15.26	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	247031	17.45	262054	17.45	94	50 - 200	0.0000	+/-0.50	
JAX47-MW23S-120506 (B610567-06)			Lab File ID: 7LD023.D			Analyzed: 12/08/06 20:50			
Pentafluorobenzene	327101	11.42	326390	11.41	100	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	700488	12.08	711773	12.07	98	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	619008	15.26	641086	15.26	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	243816	17.45	262054	17.45	93	50 - 200	0.0000	+/-0.50	
JAX47-MW24D-120506 (B610567-07)			Lab File ID: 7LD024.D			Analyzed: 12/08/06 21:20			
Pentafluorobenzene	322788	11.41	326390	11.41	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	701198	12.07	711773	12.07	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	629289	15.26	641086	15.26	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	247566	17.45	262054	17.45	94	50 - 200	0.0000	+/-0.50	
Blank (6L08023-BLK2)			Lab File ID: 7LD030.D			Analyzed: 12/09/06 00:24			
Pentafluorobenzene	336421	11.42	324835	11.41	104	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	721598	12.08	701153	12.07	103	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	640713	15.26	623095	15.26	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	254284	17.45	263931	17.44	96	50 - 200	0.0100	+/-0.50	
JAX47-937MW4S-120106 (B610566-01RE1)			Lab File ID: 7LD031.D			Analyzed: 12/09/06 00:55			
Pentafluorobenzene	322836	11.42	324835	11.41	99	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	693839	12.08	701153	12.07	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	613081	15.26	623095	15.26	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	245121	17.45	263931	17.44	93	50 - 200	0.0100	+/-0.50	
JAX47-937MW11D-120106 (B610566-02)			Lab File ID: 7LD032.D			Analyzed: 12/09/06 01:25			
Pentafluorobenzene	325884	11.42	324835	11.41	100	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	696656	12.08	701153	12.07	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	617953	15.26	623095	15.26	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	238374	17.45	263931	17.44	90	50 - 200	0.0100	+/-0.50	
Blank (6L08023-BLK3)			Lab File ID: 7LF004.D			Analyzed: 12/11/06 17:55			
Pentafluorobenzene	420135	11.43	440420	11.42	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	872987	12.09	903995	12.08	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	777987	15.27	796147	15.26	98	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	311610	17.45	330071	17.45	94	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00115	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-MW17S-120506 (B610567-04)			Lab File ID: 7LF005.D			Analyzed: 12/11/06 18:25			
Pentafluorobenzene	398922	11.42	440420	11.42	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	842264	12.08	903995	12.08	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	754846	15.26	796147	15.26	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	309575	17.45	330071	17.45	94	50 - 200	0.0000	+/-0.50	
JAX47-MW17D-120506 (B610567-03RE1)			Lab File ID: 7LF006.D			Analyzed: 12/11/06 18:56			
Pentafluorobenzene	409508	11.43	440420	11.42	93	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	847933	12.08	903995	12.08	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	752798	15.26	796147	15.26	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	305330	17.45	330071	17.45	93	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00118	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (6L12026-BLK1)			Lab File ID: 7LG004.D			Analyzed: 12/12/06 12:03			
Pentafluorobenzene	410118	11.43	421640	11.43	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	855728	12.09	856095	12.09	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	746861	15.28	776355	15.27	96	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	305191	17.46	311791	17.45	98	50 - 200	0.0100	+/-0.50	
JAX47-MW12S-120806 (B610655-01)			Lab File ID: 7LG010.D			Analyzed: 12/12/06 15:37			
Pentafluorobenzene	355986	11.43	421640	11.43	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	777249	12.09	856095	12.09	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	681714	15.28	776355	15.27	88	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	268167	17.46	311791	17.45	86	50 - 200	0.0100	+/-0.50	
JAX47-MW14S-120806 (B610655-02)			Lab File ID: 7LG011.D			Analyzed: 12/12/06 16:08			
Pentafluorobenzene	351800	11.43	421640	11.43	83	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	742388	12.09	856095	12.09	87	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	670674	15.28	776355	15.27	86	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	263961	17.46	311791	17.45	85	50 - 200	0.0100	+/-0.50	
JAX47-MW25S-120806 (B610655-03)			Lab File ID: 7LG012.D			Analyzed: 12/12/06 16:39			
Pentafluorobenzene	352582	11.43	421640	11.43	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	736570	12.09	856095	12.09	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	663450	15.28	776355	15.27	85	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	259951	17.46	311791	17.45	83	50 - 200	0.0100	+/-0.50	
JAX47-MW26S-120806 (B610655-04)			Lab File ID: 7LG013.D			Analyzed: 12/12/06 17:09			
Pentafluorobenzene	349503	11.43	421640	11.43	83	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	741157	12.09	856095	12.09	87	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	667296	15.27	776355	15.27	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	255530	17.46	311791	17.45	82	50 - 200	0.0100	+/-0.50	
JAX47-MW28S-120806 (B610655-05)			Lab File ID: 7LG014.D			Analyzed: 12/12/06 17:40			
Pentafluorobenzene	341065	11.43	421640	11.43	81	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	726693	12.09	856095	12.09	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	636905	15.27	776355	15.27	82	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	254100	17.46	311791	17.45	81	50 - 200	0.0100	+/-0.50	

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00102	Instrument:	JVGCMS1
Calibration:	0612011		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6L0029	8260 Calibration standard #1 (0.0002mg/L)	BA00102-CAL1	7KY005.D	11/30/06 16:52
B6L0031	8260 Calibration standard #2(0.001mg/L)	BA00102-CAL2	7KY007.D	11/30/06 17:54
B6L0032	8260 Calibration standard #3(0.005mg/L)	BA00102-CAL3	7KY008.D	11/30/06 18:25
B6L0033	8260 Calibration standard #4(0.020mg/L)	BA00102-CAL4	7KY009.D	11/30/06 18:55
B6L0037	8260 Calibration standard #5(0.050mg/L)	BA00102-CAL5	7KY010.D	11/30/06 19:26
B6L0036	8260 Calibration standard #6(0.100mg/L)	BA00102-CAL6	7KY012.D	11/30/06 20:27
B6L0035	8260 Calibration standard #7(0.200mg/L)	BA00102-CAL7	7KY015.D	11/30/06 21:59

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00101	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00101-CCV1)			Lab File ID: 5LL002.D		Analyzed: 12/17/06 13:47			
2-Fluorophenol	40.0	103	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	40.0	109	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	40.0	100	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	40.0	105	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	40.0	102	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
Blank (6L12004-BLK1)			Lab File ID: 5LL005.D		Analyzed: 12/17/06 14:59			
2-Fluorophenol	100	69	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	112	40 - 110	5.29	5.323333	-0.0333	+/-0.1	*
2-Fluorobiphenyl	50.0	100	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	141	40 - 125	8.5	8.531666	-0.0317	+/-0.1	*
Terphenyl-d14	50.0	123	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
LCS (6L12004-BS1)			Lab File ID: 5LL006.D		Analyzed: 12/17/06 15:23			
2-Fluorophenol	100	26	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	97	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	89	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	126	40 - 125	8.51	8.531666	-0.0217	+/-0.1	*
Terphenyl-d14	50.0	108	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
Matrix Spike (6L12004-MS1)			Lab File ID: 5LL007.D		Analyzed: 12/17/06 15:47			
2-Fluorophenol	100	42	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	96	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	81	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	111	40 - 125	8.51	8.531666	-0.0217	+/-0.1	
Terphenyl-d14	50.0	93	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW16D-120506 (B610567-01)			Lab File ID: 5LL013.D		Analyzed: 12/17/06 18:12			
2-Fluorophenol	100	33	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	102	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	93	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	131	40 - 125	8.5	8.531666	-0.0317	+/-0.1	*
Terphenyl-d14	50.0	112	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00101	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW16S-120506 (B610567-02)			Lab File ID: 5LL014.D		Analyzed: 12/17/06 18:37			
2-Fluorophenol	100	36	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	110	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	98	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	122	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	121	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW17D-120506 (B610567-03)			Lab File ID: 5LL015.D		Analyzed: 12/17/06 19:01			
2-Fluorophenol	100	44	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	114	40 - 110	5.29	5.323333	-0.0333	+/-0.1	*
2-Fluorobiphenyl	50.0	100	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	146	40 - 125	8.5	8.531666	-0.0317	+/-0.1	*
Terphenyl-d14	50.0	121	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW17S-120506 (B610567-04)			Lab File ID: 5LL016.D		Analyzed: 12/17/06 19:25			
2-Fluorophenol	100	32	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	89	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	84	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	111	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	94	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW19S-120506 (B610567-05)			Lab File ID: 5LL017.D		Analyzed: 12/17/06 19:49			
2-Fluorophenol	100	32	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	80	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	68	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	99	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	82	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW23S-120506 (B610567-06)			Lab File ID: 5LL018.D		Analyzed: 12/17/06 20:13			
2-Fluorophenol	100	38	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	96	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	86	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	120	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	105	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00101	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW24D-120506 (B610567-07)			Lab File ID: 5LL019.D		Analyzed: 12/17/06 20:38			
2-Fluorophenol	100	27	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	72	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	64	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	100	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	93	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW12S-120806 (B610655-01)			Lab File ID: 5LL020.D		Analyzed: 12/17/06 21:02			
2-Fluorophenol	100	41	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	108	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	94	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	138	40 - 125	8.5	8.531666	-0.0317	+/-0.1	*
Terphenyl-d14	50.0	124	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW14S-120806 (B610655-02)			Lab File ID: 5LL021.D		Analyzed: 12/17/06 21:27			
2-Fluorophenol	100	37	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	97	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	86	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	126	40 - 125	8.5	8.531666	-0.0317	+/-0.1	*
Terphenyl-d14	50.0	112	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW25S-120806 (B610655-03)			Lab File ID: 5LL022.D		Analyzed: 12/17/06 21:52			
2-Fluorophenol	100	22	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	69	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	63	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	101	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	92	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-MW26S-120806 (B610655-04)			Lab File ID: 5LL023.D		Analyzed: 12/17/06 22:17			
2-Fluorophenol	100	27	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	69	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	62	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	85	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	83	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00101	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW28S-120806 (B610655-05)			Lab File ID: 5LL024.D		Analyzed: 12/17/06 22:42			
2-Fluorophenol	100	24	20 - 110	3.68	3.703333	-0.0233	+/-0.1	
Nitrobenzene-d5	50.0	81	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	75	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	103	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	101	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
Matrix Spike Dup (6L12004-MSD1)			Lab File ID: 5LL026.D		Analyzed: 12/17/06 23:32			
2-Fluorophenol	100	37	20 - 110	3.69	3.703333	-0.0133	+/-0.1	
Nitrobenzene-d5	50.0	94	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	89	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	127	40 - 125	8.51	8.531666	-0.0217	+/-0.1	*
Terphenyl-d14	50.0	106	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00104	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00104-CCV1)			Lab File ID: 5LM008.D		Analyzed: 12/18/06 17:53			
2-Fluorophenol	40.0	91	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Nitrobenzene-d5	40.0	110	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	40.0	102	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	40.0	108	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	40.0	102	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
Blank (6L08004-BLK1)			Lab File ID: 5LM022.D		Analyzed: 12/19/06 00:14			
2-Fluorophenol	100	35	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Nitrobenzene-d5	50.0	81	40 - 110	5.28	5.323333	-0.0433	+/-0.1	
2-Fluorobiphenyl	50.0	75	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	93	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	93	50 - 135	10.77	10.80167	-0.0317	+/-0.1	
LCS (6L08004-BS1)			Lab File ID: 5LM023.D		Analyzed: 12/19/06 00:39			
2-Fluorophenol	100	42	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Nitrobenzene-d5	50.0	89	40 - 110	5.29	5.323333	-0.0333	+/-0.1	
2-Fluorobiphenyl	50.0	85	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	115	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	102	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
Matrix Spike (6L08004-MS1)			Lab File ID: 5LM024.D		Analyzed: 12/19/06 01:04			
2-Fluorophenol	100	43	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Nitrobenzene-d5	50.0	88	40 - 110	5.28	5.323333	-0.0433	+/-0.1	
2-Fluorobiphenyl	50.0	84	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	114	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	98	50 - 135	10.77	10.80167	-0.0317	+/-0.1	
Matrix Spike Dup (6L08004-MSD1)			Lab File ID: 5LM025.D		Analyzed: 12/19/06 01:28			
2-Fluorophenol	100	38	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Nitrobenzene-d5	50.0	77	40 - 110	5.28	5.323333	-0.0433	+/-0.1	
2-Fluorobiphenyl	50.0	76	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	110	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	97	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00104	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-937MW4S-120106 (B610566-01)			Lab File ID: 5LM027.D		Analyzed: 12/19/06 02:18			
2-Fluorophenol	100	43	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Phenol-d5	100	29	10 - 94	4.44	4.476667	-0.0367	+/-0.1	
Nitrobenzene-d5	50.0	82	40 - 110	5.28	5.323333	-0.0433	+/-0.1	
2-Fluorobiphenyl	50.0	82	50 - 110	7.04	7.055	-0.0150	+/-0.1	
2,4,6-Tribromophenol	100	118	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	108	50 - 135	10.8	10.80167	-0.0017	+/-0.1	
JAX47-937MW11D-120106 (B610566-02)			Lab File ID: 5LM028.D		Analyzed: 12/19/06 02:43			
2-Fluorophenol	100	43	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Phenol-d5	100	28	10 - 94	4.44	4.476667	-0.0367	+/-0.1	
Nitrobenzene-d5	50.0	86	40 - 110	5.28	5.323333	-0.0433	+/-0.1	
2-Fluorobiphenyl	50.0	82	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	97	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	97	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-937MW11S-120106 (B610566-03)			Lab File ID: 5LM029.D		Analyzed: 12/19/06 03:08			
2-Fluorophenol	100	45	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Phenol-d5	100	28	10 - 94	4.44	4.476667	-0.0367	+/-0.1	
Nitrobenzene-d5	50.0	89	40 - 110	5.28	5.323333	-0.0433	+/-0.1	
2-Fluorobiphenyl	50.0	82	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	117	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	103	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-937MW14D-120106 (B610566-04)			Lab File ID: 5LM030.D		Analyzed: 12/19/06 03:33			
2-Fluorophenol	100	40	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Phenol-d5	100	25	10 - 94	4.44	4.476667	-0.0367	+/-0.1	
Nitrobenzene-d5	50.0	83	40 - 110	5.28	5.323333	-0.0433	+/-0.1	
2-Fluorobiphenyl	50.0	80	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	97	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	50.0	96	50 - 135	10.78	10.80167	-0.0217	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00105	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00105-CCV1)			Lab File ID: 5LN004.D		Analyzed: 12/19/06 11:18			
2-Fluorophenol	40.0	98	20 - 110	3.67	3.703333	-0.0333	+/-0.1	
Nitrobenzene-d5	40.0	112	40 - 110	5.29	5.323333	-0.0333	+/-0.1	*
2-Fluorobiphenyl	40.0	100	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	40.0	100	40 - 125	8.5	8.531666	-0.0317	+/-0.1	
Terphenyl-d14	40.0	97	50 - 135	10.78	10.80167	-0.0217	+/-0.1	
JAX47-937MW11S-120106 (B610566-03RE1)			Lab File ID: 5LN011.D		Analyzed: 12/19/06 15:20			
2-Fluorophenol	100	29	20 - 110	3.66	3.703333	-0.0433	+/-0.1	
Phenol-d5	100	12	10 - 94	4.44	4.476667	-0.0367	+/-0.1	
Nitrobenzene-d5	50.0	57	40 - 110	5.28	5.323333	-0.0433	+/-0.1	
2-Fluorobiphenyl	50.0	74	50 - 110	7.02	7.055	-0.0350	+/-0.1	
2,4,6-Tribromophenol	100	85	40 - 125	8.49	8.531666	-0.0417	+/-0.1	
Terphenyl-d14	50.0	79	50 - 135	10.77	10.80167	-0.0317	+/-0.1	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00101	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (6L12004-BLK1)			Lab File ID: 5LL005.D			Analyzed: 12/17/06 14:59			
1,4-Dichlorobenzene-d4	176805	4.78	183809	4.78	96	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	583354	5.98	642908	5.98	91	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	381926	7.71	423940	7.71	90	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	665887	9.2	727271	9.2	92	50 - 200	0.0000	+/-0.05	
Chrysene-d12	742017	11.85	758681	11.86	98	50 - 200	-0.0100	+/-0.05	
Perylene-d12	755798	13.25	606423	13.25	125	50 - 200	0.0000	+/-0.05	
JAX47-MW16D-120506 (B610567-01)			Lab File ID: 5LL013.D			Analyzed: 12/17/06 18:12			
1,4-Dichlorobenzene-d4	184878	4.78	183809	4.78	101	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	604261	5.98	642908	5.98	94	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	400578	7.71	423940	7.71	94	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	709364	9.2	727271	9.2	98	50 - 200	0.0000	+/-0.05	
Chrysene-d12	786182	11.86	758681	11.86	104	50 - 200	0.0000	+/-0.05	
Perylene-d12	811134	13.25	606423	13.25	134	50 - 200	0.0000	+/-0.05	
JAX47-MW16S-120506 (B610567-02)			Lab File ID: 5LL014.D			Analyzed: 12/17/06 18:37			
1,4-Dichlorobenzene-d4	166689	4.78	183809	4.78	91	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	536690	5.98	642908	5.98	83	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	372801	7.71	423940	7.71	88	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	650883	9.2	727271	9.2	89	50 - 200	0.0000	+/-0.05	
Chrysene-d12	730720	11.86	758681	11.86	96	50 - 200	0.0000	+/-0.05	
Perylene-d12	747235	13.25	606423	13.25	123	50 - 200	0.0000	+/-0.05	
JAX47-MW17D-120506 (B610567-03)			Lab File ID: 5LL015.D			Analyzed: 12/17/06 19:01			
1,4-Dichlorobenzene-d4	152962	4.78	183809	4.78	83	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	508219	5.98	642908	5.98	79	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	344596	7.71	423940	7.71	81	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	608452	9.2	727271	9.2	84	50 - 200	0.0000	+/-0.05	
Chrysene-d12	664001	11.86	758681	11.86	88	50 - 200	0.0000	+/-0.05	
Perylene-d12	695286	13.25	606423	13.25	115	50 - 200	0.0000	+/-0.05	
JAX47-MW17S-120506 (B610567-04)			Lab File ID: 5LL016.D			Analyzed: 12/17/06 19:25			
1,4-Dichlorobenzene-d4	188447	4.78	183809	4.78	103	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	637544	5.98	642908	5.98	99	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	411817	7.71	423940	7.71	97	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	735624	9.2	727271	9.2	101	50 - 200	0.0000	+/-0.05	
Chrysene-d12	814375	11.86	758681	11.86	107	50 - 200	0.0000	+/-0.05	
Perylene-d12	845082	13.25	606423	13.25	139	50 - 200	0.0000	+/-0.05	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00101	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-MW19S-120506 (B610567-05)			Lab File ID: 5LL017.D			Analyzed: 12/17/06 19:49			
1,4-Dichlorobenzene-d4	215595	4.78	183809	4.78	117	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	723232	5.98	642908	5.98	112	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	512020	7.71	423940	7.71	121	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	929411	9.2	727271	9.2	128	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1014529	11.85	758681	11.86	134	50 - 200	-0.0100	+/-0.05	
Perylene-d12	1049440	13.25	606423	13.25	173	50 - 200	0.0000	+/-0.05	
JAX47-MW23S-120506 (B610567-06)			Lab File ID: 5LL018.D			Analyzed: 12/17/06 20:13			
1,4-Dichlorobenzene-d4	191133	4.78	183809	4.78	104	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	633384	5.98	642908	5.98	99	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	416384	7.71	423940	7.71	98	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	744272	9.2	727271	9.2	102	50 - 200	0.0000	+/-0.05	
Chrysene-d12	829134	11.85	758681	11.86	109	50 - 200	-0.0100	+/-0.05	
Perylene-d12	858076	13.25	606423	13.25	141	50 - 200	0.0000	+/-0.05	
JAX47-MW24D-120506 (B610567-07)			Lab File ID: 5LL019.D			Analyzed: 12/17/06 20:38			
1,4-Dichlorobenzene-d4	171956	4.78	183809	4.78	94	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	570663	5.98	642908	5.98	89	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	382237	7.71	423940	7.71	90	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	660147	9.2	727271	9.2	91	50 - 200	0.0000	+/-0.05	
Chrysene-d12	724931	11.86	758681	11.86	96	50 - 200	0.0000	+/-0.05	
Perylene-d12	770969	13.25	606423	13.25	127	50 - 200	0.0000	+/-0.05	
JAX47-MW12S-120806 (B610655-01)			Lab File ID: 5LL020.D			Analyzed: 12/17/06 21:02			
1,4-Dichlorobenzene-d4	141163	4.78	183809	4.78	77	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	437354	5.98	642908	5.98	68	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	291178	7.71	423940	7.71	69	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	506689	9.2	727271	9.2	70	50 - 200	0.0000	+/-0.05	
Chrysene-d12	570033	11.85	758681	11.86	75	50 - 200	-0.0100	+/-0.05	
Perylene-d12	575949	13.25	606423	13.25	95	50 - 200	0.0000	+/-0.05	
JAX47-MW14S-120806 (B610655-02)			Lab File ID: 5LL021.D			Analyzed: 12/17/06 21:27			
1,4-Dichlorobenzene-d4	180840	4.78	183809	4.78	98	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	577834	5.98	642908	5.98	90	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	381557	7.71	423940	7.71	90	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	671289	9.2	727271	9.2	92	50 - 200	0.0000	+/-0.05	
Chrysene-d12	750016	11.85	758681	11.86	99	50 - 200	-0.0100	+/-0.05	
Perylene-d12	759892	13.25	606423	13.25	125	50 - 200	0.0000	+/-0.05	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00101	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-MW25S-120806 (B610655-03)			Lab File ID: 5LL022.D			Analyzed: 12/17/06 21:52			
1,4-Dichlorobenzene-d4	174809	4.78	183809	4.78	95	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	594783	5.98	642908	5.98	93	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	396715	7.71	423940	7.71	94	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	722065	9.2	727271	9.2	99	50 - 200	0.0000	+/-0.05	
Chrysene-d12	865365	11.85	758681	11.86	114	50 - 200	-0.0100	+/-0.05	
Perylene-d12	880794	13.25	606423	13.25	145	50 - 200	0.0000	+/-0.05	
JAX47-MW26S-120806 (B610655-04)			Lab File ID: 5LL023.D			Analyzed: 12/17/06 22:17			
1,4-Dichlorobenzene-d4	193387	4.78	183809	4.78	105	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	655751	5.98	642908	5.98	102	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	443985	7.71	423940	7.71	105	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	785262	9.2	727271	9.2	108	50 - 200	0.0000	+/-0.05	
Chrysene-d12	864143	11.86	758681	11.86	114	50 - 200	0.0000	+/-0.05	
Perylene-d12	878310	13.25	606423	13.25	145	50 - 200	0.0000	+/-0.05	
JAX47-MW28S-120806 (B610655-05)			Lab File ID: 5LL024.D			Analyzed: 12/17/06 22:42			
1,4-Dichlorobenzene-d4	166174	4.78	183809	4.78	90	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	550165	5.98	642908	5.98	86	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	367530	7.71	423940	7.71	87	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	653283	9.2	727271	9.2	90	50 - 200	0.0000	+/-0.05	
Chrysene-d12	743058	11.85	758681	11.86	98	50 - 200	-0.0100	+/-0.05	
Perylene-d12	768545	13.25	606423	13.25	127	50 - 200	0.0000	+/-0.05	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00104	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (6L08004-BLK1)			Lab File ID: 5LM022.D			Analyzed: 12/19/06 00:14			
1,4-Dichlorobenzene-d4	206873	4.77	226546	4.77	91	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	690130	5.97	766895	5.97	90	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	468102	7.7	511088	7.7	92	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	800663	9.2	871153	9.2	92	50 - 200	0.0000	+/-0.05	
Chrysene-d12	960702	11.85	979468	11.85	98	50 - 200	0.0000	+/-0.05	
Perylene-d12	1033899	13.24	826548	13.24	125	50 - 200	0.0000	+/-0.05	
JAX47-937MW4S-120106 (B610566-01)			Lab File ID: 5LM027.D			Analyzed: 12/19/06 02:18			
1,4-Dichlorobenzene-d4	216426	4.77	226546	4.77	96	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	743758	5.97	766895	5.97	97	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	460259	7.71	511088	7.7	90	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	849702	9.2	871153	9.2	98	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1301199	11.88	979468	11.85	133	50 - 200	0.0300	+/-0.05	
Perylene-d12	1319512	13.25	826548	13.24	160	50 - 200	0.0100	+/-0.05	
JAX47-937MW11D-120106 (B610566-02)			Lab File ID: 5LM028.D			Analyzed: 12/19/06 02:43			
1,4-Dichlorobenzene-d4	281552	4.77	226546	4.77	124	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	920400	5.97	766895	5.97	120	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	586302	7.7	511088	7.7	115	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	1021162	9.2	871153	9.2	117	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1220920	11.85	979468	11.85	125	50 - 200	0.0000	+/-0.05	
Perylene-d12	1354960	13.24	826548	13.24	164	50 - 200	0.0000	+/-0.05	
JAX47-937MW11S-120106 (B610566-03)			Lab File ID: 5LM029.D			Analyzed: 12/19/06 03:08			
1,4-Dichlorobenzene-d4	276890	4.77	226546	4.77	122	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	952991	5.97	766895	5.97	124	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	637531	7.71	511088	7.7	125	50 - 200	0.0100	+/-0.05	
Phenanthrene-d10	1129644	9.2	871153	9.2	130	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1508228	11.86	979468	11.85	154	50 - 200	0.0100	+/-0.05	
Perylene-d12	1556161	13.25	826548	13.24	188	50 - 200	0.0100	+/-0.05	
JAX47-937MW14D-120106 (B610566-04)			Lab File ID: 5LM030.D			Analyzed: 12/19/06 03:33			
1,4-Dichlorobenzene-d4	278946	4.77	226546	4.77	123	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	930697	5.97	766895	5.97	121	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	597405	7.7	511088	7.7	117	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	1021908	9.2	871153	9.2	117	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1187308	11.85	979468	11.85	121	50 - 200	0.0000	+/-0.05	
Perylene-d12	1290926	13.24	826548	13.24	156	50 - 200	0.0000	+/-0.05	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00105	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0612007

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
JAX47-937MW11S-120106 (B610566-03RE1)			Lab File ID: 5LN011.D			Analyzed: 12/19/06 15:20			
1,4-Dichlorobenzene-d4	165272	4.77	254223	4.77	65	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	574838	5.97	823111	5.97	70	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	403050	7.7	528211	7.71	76	50 - 200	-0.0100	+/-0.05	
Phenanthrene-d10	712943	9.19	864217	9.2	82	50 - 200	-0.0100	+/-0.05	
Chrysene-d12	831952	11.85	1132072	11.85	73	50 - 200	0.0000	+/-0.05	
Perylene-d12	873552	13.24	1129997	13.25	77	50 - 200	-0.0100	+/-0.05	

INITIAL CALIBRATION STANDARDS

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00069	Instrument:	JSVGCMS1
Calibration:	0612007		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6J0127	8270 - 8270 Tune Working Std	BA00069-TUN2	5K1020.D	11/01/06 23:36
B6F0036	8270 - 10ug/mL Basic Extractables	BA00069-CAL7	5K1021.D	11/01/06 23:54
B6F0037	8270 - 20ug/mL Basic Extractables	BA00069-CAL8	5K1022.D	11/02/06 00:19
B6F0038	8270 - 40ug/mL Basic Extractables	BA00069-CAL9	5K1023.D	11/02/06 00:43
B6F0039	8270 - 60ug/mL Basic Extractables	BA00069-CALA	5K1024.D	11/02/06 01:08
B6F0040	8270 - 80ug/mL Basic Extractables	BA00069-CALB	5K1025.D	11/02/06 01:33
B6F0041	8270 - 100ug/mL Basic Extractables	BA00069-CALC	5K1026.D	11/02/06 01:58
B6J0127	8270 - 8270 Tune Working Std	BA00069-TUN3	5KC002.D	11/08/06 09:45
B6K0041	8270 - BNA 10ug/mL std	BA00069-CALD	5KC004.D	11/08/06 11:20
B6K0040	8270 - BNA 20ug/mL std	BA00069-CALE	5KC005.D	11/08/06 11:44
B6K0039	8270 - BNA 40ug/mL std	BA00069-CALF	5KC006.D	11/08/06 12:09
B6K0038	8270 - BNA 60ug/mL std	BA00069-CALG	5KC007.D	11/08/06 12:34
B6K0037	8270 - BNA 80ug/mL std	BA00069-CALH	5KC008.D	11/08/06 12:58
B6K0036	8270 - BNA 100ug/mL std	BA00069-CALI	5KC009.D	11/08/06 13:23
B6K0103	8270 - 8270 Tune Working Std	BA00069-TUN1	5KX014.D	11/29/06 16:09
B6K0109	8270 Curve - 10ppm curve std	BA00069-CAL1	5KX015.D	11/29/06 16:27
B6K0108	8270 Curve - 20ppm curve std	BA00069-CAL2	5KX016.D	11/29/06 16:51
B6K0107	8270 Curve - 40ppm curve std	BA00069-CAL3	5KX017.D	11/29/06 17:15
B6K0106	8270 Curve - 60ppm curve std	BA00069-CAL4	5KX018.D	11/29/06 17:39
B6K0105	8270 Curve - 80ppm curve std	BA00069-CAL5	5KX019.D	11/29/06 18:04
B6K0104	8270 Curve - 100ppm curve std	BA00069-CAL6	5KX020.D	11/29/06 18:28

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L08003-BLK1	File ID:	9LHA004-0
Prepared:	12/08/06 11:09	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/13/06 13:45	Instrument:	JSVGCECD2		
Batch:	6L08003	Sequence:	BA00099	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4'-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4'-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4'-DDT	0.00200	J
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.0	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L08003-BLK1	File ID:	9LHB004-0
Prepared:	12/08/06 11:09	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/13/06 13:45	Instrument:	JSVGCECD2		
Batch:	6L08003	Sequence:	BA00099	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.00200	J
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.697	70	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.714	71	25 - 140	
DBC	1.00	0.677	68	30 - 135	
DBC [2C]	1.00	0.703	70	30 - 135	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L11022-BLK1	File ID:	9LGA013-0
Prepared:	12/11/06 15:02	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/12/06 21:57	Instrument:	JSVGCECD2		
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
NA	Chlordane-gamma	0.050	U
NA	Chlordane-alpha	0.050	U
72-55-9	4,4´-DDE	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.050	U
72-20-8	Endrin	0.050	U
72-54-8	4,4´-DDD	0.050	U
33213-65-9	Endosulfan II	0.050	U
50-29-3	4,4´-DDT	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
72-43-5	Methoxychlor	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
53494-70-5	Endrin ketone	0.050	U
8001-35-2	Toxaphene	1.0	U
319-84-6	alpha-BHC [2C]	0.050	U
58-89-9	gamma-BHC [2C]	0.050	U
319-85-7	beta-BHC [2C]	0.050	U
319-86-8	delta-BHC [2C]	0.050	U
76-44-8	Heptachlor [2C]	0.050	U
309-00-2	Aldrin [2C]	0.050	U
1024-57-3	Heptachlor epoxide [2C]	0.050	U
NA	Chlordane-gamma [2C]	0.050	U
NA	Chlordane-alpha [2C]	0.050	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L11022-BLK1	File ID:	9LGB013-0
Prepared:	12/11/06 15:02	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	12/12/06 21:57	Instrument:	JSVGCECD2		
Batch:	6L11022	Sequence:	BA00090	Calibration:	0612008

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.050	U
959-98-8	Endosulfan I [2C]	0.050	U
60-57-1	Dieldrin [2C]	0.050	U
72-20-8	Endrin [2C]	0.050	U
72-54-8	4,4'-DDD [2C]	0.050	U
33213-65-9	Endosulfan II [2C]	0.050	U
50-29-3	4,4'-DDT [2C]	0.050	U
7421-93-4	Endrin aldehyde [2C]	0.050	U
72-43-5	Methoxychlor [2C]	0.050	U
1031-07-8	Endosulfan sulfate [2C]	0.050	U
53494-70-5	Endrin ketone [2C]	0.050	U
8001-35-2	Toxaphene [2C]	1.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	1.18	118	25 - 140	
2,4,5,6-TCMX [2C]	1.00	1.19	119	25 - 140	
DBC	1.00	1.36	136	30 - 135	*
DBC [2C]	1.00	1.38	138	30 - 135	*

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L11022 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L11022-BLK1	9LGB013-0	12/11/06 15:02	
Blank	6L11022-BLK1	9LGA013-0	12/11/06 15:02	
LCS	6L11022-BS1	9LGB014-0	12/11/06 15:02	
LCS	6L11022-BS1	9LGA014-0	12/11/06 15:02	
MW-1	6L11022-MS1	9LGB015-0	12/11/06 15:02	
MW-1	6L11022-MS1	9LGA015-0	12/11/06 15:02	
MW-1	6L11022-MSD1	9LGA016-0	12/11/06 15:02	
MW-1	6L11022-MSD1	9LGB016-0	12/11/06 15:02	
JAX47-MW16D-120506	B610567-01	9LGB018-0	12/11/06 15:02	
JAX47-MW16D-120506	B610567-01	9LGA018-0	12/11/06 15:02	
JAX47-MW16S-120506	B610567-02	9LGA019-0	12/11/06 15:02	
JAX47-MW16S-120506	B610567-02	9LGB019-0	12/11/06 15:02	
JAX47-MW17D-120506	B610567-03	9LGA020-0	12/11/06 15:02	
JAX47-MW17D-120506	B610567-03	9LGB020-0	12/11/06 15:02	
JAX47-MW17S-120506	B610567-04	9LGA021-0	12/11/06 15:02	
JAX47-MW17S-120506	B610567-04	9LGB021-0	12/11/06 15:02	
JAX47-MW17S-120506	B610567-04RE1	9LHA015-0	12/11/06 15:02	Added 12/14/06 by JBH
JAX47-MW17S-120506	B610567-04RE1	9LHB015-0	12/11/06 15:02	Added 12/14/06 by JBH
JAX47-MW19S-120506	B610567-05	9LGB022-0	12/11/06 15:02	
JAX47-MW19S-120506	B610567-05	9LGA022-0	12/11/06 15:02	
JAX47-MW23S-120506	B610567-06	9LGB023-0	12/11/06 15:02	
JAX47-MW23S-120506	B610567-06	9LGA023-0	12/11/06 15:02	
JAX47-MW24D-120506	B610567-07	9LGA032-0	12/11/06 15:02	
JAX47-MW24D-120506	B610567-07	9LGB032-0	12/11/06 15:02	
JAX47-MW12S-120806	B610655-01	9LGA037-0	12/11/06 15:02	
JAX47-MW12S-120806	B610655-01	9LGB037-0	12/11/06 15:02	
JAX47-MW14S-120806	B610655-02	9LGB038-0	12/11/06 15:02	
JAX47-MW14S-120806	B610655-02	9LGA038-0	12/11/06 15:02	
JAX47-MW25S-120806	B610655-03	9LGA039-0	12/11/06 15:02	
JAX47-MW25S-120806	B610655-03	9LGB039-0	12/11/06 15:02	
JAX47-MW25S-120806	B610655-03RE1	9LHB016-0	12/11/06 15:02	Added 12/14/06 by JBH
JAX47-MW25S-120806	B610655-03RE1	9LHA016-0	12/11/06 15:02	Added 12/14/06 by JBH
JAX47-MW26S-120806	B610655-04	9LGA040-0	12/11/06 15:02	

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L11022 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
JAX47-MW26S-120806	B610655-04	9LGB040-0	12/11/06 15:02	
JAX47-MW28S-120806	B610655-05	9LGA042-0	12/11/06 15:02	
JAX47-MW28S-120806	B610655-05	9LGB042-0	12/11/06 15:02	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00090	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00090-IBL1	9LGB001-0	12/12/06 16:33
Instrument Blank	BA00090-IBL1	9LGA001-0	12/12/06 16:33
Performance Mix	BA00090-PEM1	9LGB002-0	12/12/06 16:59
Performance Mix	BA00090-PEM1	9LGA002-0	12/12/06 16:59
Calibration Check	BA00090-CCV1	9LGB012-0	12/12/06 21:31
Calibration Check	BA00090-CCV1	9LGA012-0	12/12/06 21:31
Blank	6L11022-BLK1	9LGA013-0	12/12/06 21:57
Blank	6L11022-BLK1	9LGB013-0	12/12/06 21:57
LCS	6L11022-BS1	9LGA014-0	12/12/06 22:23
LCS	6L11022-BS1	9LGB014-0	12/12/06 22:23
MW-1	6L11022-MS1	9LGA015-0	12/12/06 22:49
MW-1	6L11022-MS1	9LGB015-0	12/12/06 22:49
MW-1	6L11022-MSD1	9LGA016-0	12/12/06 23:15
MW-1	6L11022-MSD1	9LGB016-0	12/12/06 23:15
JAX47-MW16D-120506	B610567-01	9LGA018-0	12/13/06 00:07
JAX47-MW16D-120506	B610567-01	9LGB018-0	12/13/06 00:07
JAX47-MW16S-120506	B610567-02	9LGA019-0	12/13/06 00:33
JAX47-MW16S-120506	B610567-02	9LGB019-0	12/13/06 00:33
JAX47-MW17D-120506	B610567-03	9LGB020-0	12/13/06 00:59
JAX47-MW17D-120506	B610567-03	9LGA020-0	12/13/06 00:59
JAX47-MW17S-120506	B610567-04	9LGA021-0	12/13/06 01:25
JAX47-MW17S-120506	B610567-04	9LGB021-0	12/13/06 01:25
JAX47-MW19S-120506	B610567-05	9LGA022-0	12/13/06 01:51
JAX47-MW19S-120506	B610567-05	9LGB022-0	12/13/06 01:51
JAX47-MW23S-120506	B610567-06	9LGA023-0	12/13/06 02:17
JAX47-MW23S-120506	B610567-06	9LGB023-0	12/13/06 02:17
Calibration Check	BA00090-CCV2	9LGA024-0	12/13/06 02:43
Calibration Check	BA00090-CCV2	9LGB024-0	12/13/06 02:43
JAX47-MW24D-120506	B610567-07	9LGB032-0	12/13/06 03:09
JAX47-MW24D-120506	B610567-07	9LGA032-0	12/13/06 03:09
JAX47-MW12S-120806	B610655-01	9LGB037-0	12/13/06 05:19
JAX47-MW12S-120806	B610655-01	9LGA037-0	12/13/06 05:19

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00090	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-MW14S-120806	B610655-02	9LGB038-0	12/13/06 05:45
JAX47-MW14S-120806	B610655-02	9LGA038-0	12/13/06 05:45
JAX47-MW25S-120806	B610655-03	9LGB039-0	12/13/06 06:11
JAX47-MW25S-120806	B610655-03	9LGA039-0	12/13/06 06:11
JAX47-MW26S-120806	B610655-04	9LGA040-0	12/13/06 06:37
JAX47-MW26S-120806	B610655-04	9LGB040-0	12/13/06 06:37
Calibration Check	BA00090-CCV3	9LGA041-0	12/13/06 07:03
Calibration Check	BA00090-CCV3	9LGB041-0	12/13/06 07:03
JAX47-MW28S-120806	B610655-05	9LGA042-0	12/13/06 07:29
JAX47-MW28S-120806	B610655-05	9LGB042-0	12/13/06 07:29
Calibration Check	BA00090-CCV4	9LGB046-0	12/13/06 09:13
Calibration Check	BA00090-CCV4	9LGA046-0	12/13/06 09:13
Instrument Blank	BA00090-IBL2	9LHA001-0	12/13/06 12:27
Instrument Blank	BA00090-IBL2	9LHB001-0	12/13/06 12:27
Performance Mix	BA00090-PEM2	9LHA002-0	12/13/06 12:53
Performance Mix	BA00090-PEM2	9LHB002-0	12/13/06 12:53
Calibration Check	BA00090-CCV5	9LHA014-0	12/13/06 18:15
Calibration Check	BA00090-CCV5	9LHB014-0	12/13/06 18:15
JAX47-MW17S-120506	B610567-04RE1	9LHA015-0	12/13/06 18:41
JAX47-MW17S-120506	B610567-04RE1	9LHB015-0	12/13/06 18:41
JAX47-MW25S-120806	B610655-03RE1	9LHB016-0	12/13/06 19:07
JAX47-MW25S-120806	B610655-03RE1	9LHA016-0	12/13/06 19:07
Calibration Check	BA00090-CCV6	9LHB018-0	12/13/06 19:59
Calibration Check	BA00090-CCV6	9LHA018-0	12/13/06 19:59

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00099	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00099-IBL1	9LHB001-0	12/13/06 12:27
Instrument Blank	BA00099-IBL1	9LHA001-0	12/13/06 12:27
Performance Mix	BA00099-PEM1	9LHA002-0	12/13/06 12:53
Performance Mix	BA00099-PEM1	9LHB002-0	12/13/06 12:53
Calibration Check	BA00099-CCV1	9LHA003-0	12/13/06 13:19
Calibration Check	BA00099-CCV1	9LHB003-0	12/13/06 13:19
Blank	6L08003-BLK1	9LHB004-0	12/13/06 13:45
Blank	6L08003-BLK1	9LHA004-0	12/13/06 13:45
LCS	6L08003-BS1	9LHA005-0	12/13/06 14:11
LCS	6L08003-BS1	9LHB005-0	12/13/06 14:11
MW-1	6L08003-MS1	9LHA006-0	12/13/06 14:37
MW-1	6L08003-MS1	9LHB006-0	12/13/06 14:37
MW-1	6L08003-MSD1	9LHA007-0	12/13/06 15:13
MW-1	6L08003-MSD1	9LHB007-0	12/13/06 15:13
JAX47-937MW4S-120106	B610566-01	9LHA010-0	12/13/06 16:31
JAX47-937MW4S-120106	B610566-01	9LHB010-0	12/13/06 16:31
JAX47-937MW11D-120106	B610566-02	9LHA011-0	12/13/06 16:57
JAX47-937MW11D-120106	B610566-02	9LHB011-0	12/13/06 16:57
JAX47-937MW11S-120106	B610566-03	9LHA012-0	12/13/06 17:23
JAX47-937MW11S-120106	B610566-03	9LHB012-0	12/13/06 17:23
JAX47-937MW14D-120106	B610566-04	9LHB013-0	12/13/06 17:49
JAX47-937MW14D-120106	B610566-04	9LHA013-0	12/13/06 17:49
Calibration Check	BA00099-CCV2	9LHA014-0	12/13/06 18:15
Calibration Check	BA00099-CCV2	9LHB014-0	12/13/06 18:15
Instrument Blank	BA00099-IBL2	9LIB001A-0	12/14/06 16:58
Instrument Blank	BA00099-IBL2	9LIA001A-0	12/14/06 16:58
Performance Mix	BA00099-PEM2	9LIB008-0	12/14/06 19:59
Performance Mix	BA00099-PEM2	9LIA008-0	12/14/06 19:59
Calibration Check	BA00099-CCV3	9LIB009-0	12/14/06 20:25
Calibration Check	BA00099-CCV3	9LIA009-0	12/14/06 20:25
JAX47-937MW4S-120106	B610566-01RE1	9LIB010-0	12/14/06 20:51
JAX47-937MW4S-120106	B610566-01RE1	9LIA010-0	12/14/06 20:51

DOD only

← 1841

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00099	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

2PAC
γ-BHC
δ-BHC ONLY

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
JAX47-937MW11S-120106	B610566-03RE1	9LIB011-0	12/14/06 21:17
JAX47-937MW11S-120106	B610566-03RE1	9LIA011-0	12/14/06 21:17
Calibration Check	BA00099-CCV4	9LIB013-0	12/14/06 22:09
Calibration Check	BA00099-CCV4	9LIA013-0	12/14/06 22:09

HOLDING TIME SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-937MW4S-120106	12/01/06 11:30	12/05/06 10:50	12/08/06 11:09	7.00	7.00	12/13/06 16:31	5.00	40.00	
JAX47-937MW4S-120106	12/01/06 11:30	12/05/06 10:50	12/08/06 11:09	7.00	7.00	12/14/06 20:51	6.00	40.00	
JAX47-937MW11D-120106	12/01/06 16:15	12/05/06 10:50	12/08/06 11:09	7.00	7.00	12/13/06 16:57	5.00	40.00	
JAX47-937MW11S-120106	12/01/06 15:00	12/05/06 10:50	12/08/06 11:09	7.00	7.00	12/13/06 17:23	5.00	40.00	
JAX47-937MW11S-120106	12/01/06 15:00	12/05/06 10:50	12/08/06 11:09	7.00	7.00	12/14/06 21:17	6.00	40.00	
JAX47-937MW14D-120106	12/01/06 15:00	12/05/06 10:50	12/08/06 11:09	7.00	7.00	12/13/06 17:49	5.00	40.00	
JAX47-MW16D-120506	12/05/06 12:46	12/06/06 14:22	12/11/06 15:02	6.00	7.00	12/13/06 00:07	1.00	40.00	
JAX47-MW16S-120506	12/05/06 13:38	12/06/06 14:22	12/11/06 15:02	6.00	7.00	12/13/06 00:33	1.00	40.00	
JAX47-MW17D-120506	12/05/06 14:41	12/06/06 14:22	12/11/06 15:02	6.00	7.00	12/13/06 00:59	1.00	40.00	
JAX47-MW17S-120506	12/05/06 15:31	12/06/06 14:22	12/11/06 15:02	6.00	7.00	12/13/06 01:25	1.00	40.00	
JAX47-MW17S-120506	12/05/06 15:31	12/06/06 14:22	12/11/06 15:02	6.00	7.00	12/13/06 18:41	2.00	40.00	
JAX47-MW19S-120506	12/05/06 16:17	12/06/06 14:22	12/11/06 15:02	6.00	7.00	12/13/06 01:51	1.00	40.00	
JAX47-MW23S-120506	12/05/06 10:46	12/06/06 14:22	12/11/06 15:02	6.00	7.00	12/13/06 02:17	1.00	40.00	
JAX47-MW24D-120506	12/05/06 11:39	12/06/06 14:22	12/11/06 15:02	6.00	7.00	12/13/06 03:09	2.00	40.00	
JAX47-MW12S-120806	12/08/06 13:32	12/08/06 15:50	12/11/06 15:02	3.00	7.00	12/13/06 05:19	2.00	40.00	
JAX47-MW14S-120806	12/08/06 09:54	12/08/06 15:50	12/11/06 15:02	3.00	7.00	12/13/06 05:45	2.00	40.00	
JAX47-MW25S-120806	12/08/06 12:36	12/08/06 15:50	12/11/06 15:02	3.00	7.00	12/13/06 06:11	2.00	40.00	
JAX47-MW25S-120806	12/08/06 12:36	12/08/06 15:50	12/11/06 15:02	3.00	7.00	12/13/06 19:07	2.00	40.00	
JAX47-MW26S-120806	12/08/06 11:48	12/08/06 15:50	12/11/06 15:02	3.00	7.00	12/13/06 06:37	2.00	40.00	
JAX47-MW28S-120806	12/08/06 10:44	12/08/06 15:50	12/11/06 15:02	3.00	7.00	12/13/06 07:29	2.00	40.00	

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00089	Instrument:	JSVGCECD2
Calibration:	0612008		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGB004-0	12/12/06 18:03
B6H0044	608/8081 - .005 ppm curve solution	BA00089-CAL1	9LGA004-0	12/12/06 18:03
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGB005-0	12/12/06 18:29
B6H0045	608/8081 - .010 ppm curve solution	BA00089-CAL2	9LGA005-0	12/12/06 18:29
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGB006-0	12/12/06 18:55
B6H0046	608/8081 - .025 ppm curve solution	BA00089-CAL3	9LGA006-0	12/12/06 18:55
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGB007-0	12/12/06 19:21
B6H0047	608/8081 - .05 ppm curve solution	BA00089-CAL4	9LGA007-0	12/12/06 19:21
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGB008-0	12/12/06 19:47
B6H0048	608/8081 - .10 ppm curve solution	BA00089-CAL5	9LGA008-0	12/12/06 19:47
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGB009-0	12/12/06 20:13
B6H0049	608/8081 - .15 ppm curve solution	BA00089-CAL6	9LGA009-0	12/12/06 20:13
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGB010-0	12/12/06 20:39
B6H0050	608/8081 - .20 ppm curve solution	BA00089-CAL7	9LGA010-0	12/12/06 20:39

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	5.060346E+07	0.01	6.733882E+07	0.025	7.063852E+07	0.05	7.743766E+07	0.1	8.911844E+07	0.15	7.431086E+07
gamma-BHC	0.005	4.721244E+07	0.01	6.100204E+07	0.025	6.28576E+07	0.05	6.813218E+07	0.1	7.791886E+07	0.15	6.504991E+07
beta-BHC	0.005	2.069612E+07	0.01	2.279765E+07	0.025	2.316347E+07	0.05	2.427322E+07	0.1	2.570072E+07	0.15	2.266171E+07
delta-BHC	0.005	4.007922E+07	0.01	5.072156E+07	0.025	5.389164E+07	0.05	6.024782E+07	0.1	6.949235E+07	0.15	5.886825E+07
Heptachlor	0.005	5.136774E+07	0.01	6.441887E+07	0.025	6.29448E+07	0.05	6.66806E+07	0.1	7.522589E+07	0.15	6.168784E+07
Aldrin	0.005	4.589054E+07	0.01	5.922084E+07	0.025	5.94912E+07	0.05	6.432602E+07	0.1	7.400812E+07	0.15	6.104451E+07
Isodrin	0.005	3.757466E+07	0.01	4.664834E+07	0.025	4.542364E+07	0.05	4.81714E+07	0.1	5.484141E+07	0.15	4.520865E+07
Heptachlor epoxide	0.005	4.438502E+07	0.01	5.401368E+07	0.025	5.266472E+07	0.05	5.581114E+07	0.1	6.314208E+07	0.15	5.200953E+07
Chlordane-gamma	0.005	4.339222E+07	0.01	5.364294E+07	0.025	5.309284E+07	0.05	5.695302E+07	0.1	6.567371E+07	0.15	5.444672E+07
Chlordane-alpha	0.005	4.26481E+07	0.01	5.224964E+07	0.025	5.102804E+07	0.05	5.434686E+07	0.1	6.235563E+07	0.15	5.150626E+07
4,4'-DDE	0.005	4.029312E+07	0.01	5.053464E+07	0.025	5.019888E+07	0.05	5.420462E+07	0.1	6.292055E+07	0.15	5.184796E+07
Endosulfan I	0.005	4.010582E+07	0.01	4.949033E+07	0.025	4.836556E+07	0.05	5.136332E+07	0.1	5.832141E+07	0.15	4.805982E+07
Dieldrin	0.005	4.164522E+07	0.01	5.23867E+07	0.025	5.241316E+07	0.05	5.651272E+07	0.1	6.511307E+07	0.15	5.376067E+07
Endrin	0.005	3.555354E+07	0.01	4.395535E+07	0.025	4.40902E+07	0.05	4.7996E+07	0.1	5.58034E+07	0.15	4.623103E+07
4,4'-DDD	0.005	2.993326E+07	0.01	3.743807E+07	0.025	3.799318E+07	0.05	4.14572E+07	0.1	4.85058E+07	0.15	4.040991E+07
Endosulfan II	0.005	3.681638E+07	0.01	4.398752E+07	0.025	4.302652E+07	0.05	4.553934E+07	0.1	5.170342E+07	0.15	4.317294E+07
4,4'-DDT	0.005	3.271292E+07	0.01	3.931949E+07	0.025	3.905108E+07	0.05	4.244794E+07	0.1	5.009385E+07	0.15	4.158223E+07
Endrin aldehyde	0.005	2.766058E+07	0.01	3.056894E+07	0.025	3.121508E+07	0.05	3.315086E+07	0.1	3.496548E+07	0.15	3.069053E+07
Methoxychlor	0.005	1.855329E+07	0.01	2.134998E+07	0.025	2.028608E+07	0.05	2.123944E+07	0.1	2.431059E+07	0.15	2.022433E+07
Mirex	0.0025	3.439462E+07	0.005	3.839246E+07	0.0125	3.39543E+07	0.025	3.364455E+07	0.05	3.675138E+07	0.075	3.007759E+07
Endosulfan sulfate	0.005	3.19952E+07	0.01	3.603601E+07	0.025	3.606318E+07	0.05	3.8083E+07	0.1	4.16473E+07	0.15	3.578587E+07
Endrin ketone	0.005	3.812338E+07	0.01	4.53495E+07	0.025	4.460288E+07	0.05	4.699036E+07	0.1	5.27468E+07	0.15	4.434494E+07
alpha-BHC [2C]	0.005	5.443232E+07	0.01	7.206373E+07	0.025	7.481312E+07	0.05	8.130752E+07	0.1	9.102437E+07	0.15	7.527946E+07
gamma-BHC [2C]	0.005	5.068892E+07	0.01	6.463946E+07	0.025	6.634604E+07	0.05	7.139146E+07	0.1	8.007953E+07	0.15	6.645407E+07
beta-BHC [2C]	0.005	2.218628E+07	0.01	2.41169E+07	0.025	2.46218E+07	0.05	2.604936E+07	0.1	2.745747E+07	0.15	2.400629E+07
delta-BHC [2C]	0.005	4.237094E+07	0.01	5.345636E+07	0.025	5.69952E+07	0.05	6.290156E+07	0.1	7.095082E+07	0.15	5.937515E+07
Heptachlor [2C]	0.005	5.394736E+07	0.01	6.763198E+07	0.025	6.623296E+07	0.05	7.026638E+07	0.1	7.771563E+07	0.15	6.353547E+07
Aldrin [2C]	0.005	4.853216E+07	0.01	6.232909E+07	0.025	6.250984E+07	0.05	6.72771E+07	0.1	7.56761E+07	0.15	6.196319E+07
Isodrin [2C]	0.005	3.962986E+07	0.01	4.891455E+07	0.025	4.754176E+07	0.05	5.048896E+07	0.1	5.654825E+07	0.15	4.628636E+07
Heptachlor epoxide [2C]	0.005	4.648872E+07	0.01	5.721472E+07	0.025	5.567628E+07	0.05	5.89433E+07	0.1	6.52634E+07	0.15	5.325777E+07
Chlordane-gamma [2C]	0.005	4.559338E+07	0.01	5.654621E+07	0.025	5.54932E+07	0.05	5.95809E+07	0.1	6.754093E+07	0.15	5.560106E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	4.46817E+07	0.01	5.488971E+07	0.025	5.337504E+07	0.05	5.672568E+07	0.1	6.401779E+07	0.15	5.253263E+07
4,4'-DDE [2C]	0.005	3.95617E+07	0.01	5.106145E+07	0.025	5.157736E+07	0.05	5.620206E+07	0.1	6.462434E+07	0.15	5.299003E+07
Endosulfan I [2C]	0.005	4.145248E+07	0.01	5.135694E+07	0.025	4.998496E+07	0.05	5.304662E+07	0.1	5.93444E+07	0.15	4.856488E+07
Dieldrin [2C]	0.005	4.32194E+07	0.01	5.490879E+07	0.025	5.49468E+07	0.05	5.918824E+07	0.1	6.67857E+07	0.15	5.460407E+07
Endrin [2C]	0.005	3.546568E+07	0.01	4.453889E+07	0.025	4.449392E+07	0.05	4.832032E+07	0.1	5.510604E+07	0.15	4.528365E+07
4,4'-DDD [2C]	0.005	3.111378E+07	0.01	3.902244E+07	0.025	3.989702E+07	0.05	4.37074E+07	0.1	5.032559E+07	0.15	4.16699E+07
Endosulfan II [2C]	0.005	3.782478E+07	0.01	4.583533E+07	0.025	4.491444E+07	0.05	4.775156E+07	0.1	5.3344E+07	0.15	4.417825E+07
4,4'-DDT [2C]	0.005	3.179644E+07	0.01	3.890519E+07	0.025	3.930106E+07	0.05	4.335386E+07	0.1	5.093629E+07	0.15	4.216127E+07
Endrin aldehyde [2C]	0.005	2.807352E+07	0.01	3.136024E+07	0.025	3.265141E+07	0.05	3.456176E+07	0.1	3.598994E+07	0.15	3.174944E+07
Methoxychlor [2C]	0.005	1.729909E+07	0.01	1.995955E+07	0.025	1.914604E+07	0.05	2.03556E+07	0.1	2.35947E+07	0.15	1.94793E+07
Mirex [2C]	0.0025	3.650136E+07	0.005	3.824636E+07	0.0125	3.449327E+07	0.025	3.488396E+07	0.05	3.833516E+07	0.075	3.142335E+07
Endosulfan sulfate [2C]	0.005	3.27926E+07	0.01	3.740735E+07	0.025	3.7988E+07	0.05	4.044336E+07	0.1	4.372099E+07	0.15	3.728517E+07
Endrin ketone [2C]	0.005	3.843418E+07	0.01	4.540562E+07	0.025	4.503844E+07	0.05	4.791374E+07	0.1	5.329625E+07	0.15	4.433078E+07
2,4,5,6-TCMX	0.005	3.561378E+07	0.01	4.381781E+07	0.025	4.28652E+07	0.05	4.542924E+07	0.1	5.244991E+07	0.15	4.333708E+07
2,4,5,6-TCMX [2C]	0.005	4.001872E+07	0.01	4.883629E+07	0.025	4.734092E+07	0.05	5.04304E+07	0.1	5.710797E+07	0.15	4.693766E+07
DBC	0.005	3.148824E+07	0.01	3.768816E+07	0.025	3.620065E+07	0.05	3.836634E+07	0.1	4.442606E+07	0.15	3.671409E+07
DBC [2C]	0.005	3.26524E+07	0.01	3.761162E+07	0.025	3.633586E+07	0.05	3.939182E+07	0.1	4.512016E+07	0.15	3.711629E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.2	8.018545E+07										
gamma-BHC	0.2	7.042745E+07										
beta-BHC	0.2	2.332166E+07										
delta-BHC	0.2	6.357185E+07										
Heptachlor	0.2	6.665865E+07										
Aldrin	0.2	6.64601E+07										
Isodrin	0.2	4.920382E+07										
Heptachlor epoxide	0.2	5.63935E+07										
Chlordane-gamma	0.2	5.97248E+07										
Chlordane-alpha	0.2	5.66045E+07										
4,4'-DDE	0.2	5.71291E+07										
Endosulfan I	0.2	5.24003E+07										
Dieldrin	0.2	5.872395E+07										
Endrin	0.2	5.032605E+07										
4,4'-DDD	0.2	4.435708E+07										
Endosulfan II	0.2	4.675878E+07										
4,4'-DDT	0.2	4.632652E+07										
Endrin aldehyde	0.2	3.127692E+07										
Methoxychlor	0.2	2.225104E+07										
Mirex	0.1	3.289806E+07										
Endosulfan sulfate	0.2	3.754804E+07										
Endrin ketone	0.2	4.765368E+07										
alpha-BHC [2C]	0.2	7.977795E+07										
gamma-BHC [2C]	0.2	7.07384E+07										
beta-BHC [2C]	0.2	2.466527E+07										
delta-BHC [2C]	0.2	6.346455E+07										
Heptachlor [2C]	0.2	6.77578E+07										
Aldrin [2C]	0.2	6.67195E+07										
Isodrin [2C]	0.2	4.995754E+07										
Heptachlor epoxide [2C]	0.2	5.69934E+07										
Chlordane-gamma [2C]	0.2	6.0226E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 13:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.2	5.68699E+07										
4,4'-DDE [2C]	0.2	5.79223E+07										
Endosulfan I [2C]	0.2	5.23986E+07										
Dieldrin [2C]	0.2	5.895035E+07										
Endrin [2C]	0.2	4.914343E+07										
4,4'-DDD [2C]	0.2	4.53145E+07										
Endosulfan II [2C]	0.2	4.736413E+07										
4,4'-DDT [2C]	0.2	4.647151E+07										
Endrin aldehyde [2C]	0.2	3.191086E+07										
Methoxychlor [2C]	0.2	2.146176E+07										
Mirex [2C]	0.1	3.444216E+07										
Endosulfan sulfate [2C]	0.2	3.889298E+07										
Endrin ketone [2C]	0.2	4.730704E+07										
2,4,5,6-TCMX	0.2	4.759164E+07										
2,4,5,6-TCMX [2C]	0.2	5.11031E+07										
DBC	0.2	4.039039E+07										
DBC [2C]	0.2	4.049462E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	7.280474E+07	16.55677	8.023286	1.005693E-02			20	
gamma-BHC	6.465721E+07	14.70393	8.628	4.480688E-03			20	
beta-BHC	2.323065E+07	6.607339	8.816429	9.283995E-03			20	
delta-BHC	5.66961E+07	16.85679	9.124286	1.311189E-02			20	
Heptachlor	6.414063E+07	11.14029	9.463429	1.932334E-02			20	
Aldrin	6.149162E+07	13.96	9.967572	1.211953E-02			20	
Isodrin	4.672456E+07	11.11533	10.50886	2.013795E-02			20	
Heptachlor epoxide	5.405995E+07	10.43004	10.95643	8.393153E-03			20	
Chlordane-gamma	5.527518E+07	12.36007	11.14771	7.129377E-03			20	
Chlordane-alpha	5.296272E+07	11.33316	11.34971	0.0190855			20	
4,4'-DDE	5.244698E+07	13.28979	11.48286	8.457253E-03			20	
Endosulfan I	4.972951E+07	11.04288	11.55586	2.287824E-02			20	
Dieldrin	5.436507E+07	13.20063	11.91886	1.642234E-02			20	
Endrin	4.627937E+07	13.53067	12.26457	2.156473E-02			20	
4,4'-DDD	4.00135E+07	14.62783	12.37786	1.406865E-02			20	
Endosulfan II	4.442927E+07	10.11884	12.60057	0.0123036			20	
4,4'-DDT	4.164772E+07	13.36393	12.78071	8.373153E-03			20	
Endrin aldehyde	3.13612E+07	7.247231	13.21929	1.078785E-02			20	
Methoxychlor	2.117353E+07	8.534318	13.48543	8.117061E-03			20	
Mirex	3.430185E+07	7.814382	13.67443	8.365503E-03			20	
Endosulfan sulfate	3.673694E+07	7.929493	13.853	8.710912E-03			20	
Endrin ketone	4.568736E+07	9.611834	14.25229	1.794489E-02			20	
alpha-BHC [2C]	7.552835E+07	14.79498	7.838	0.0228948			20	
gamma-BHC [2C]	6.719113E+07	13.26207	8.497428	0.0201597			20	
beta-BHC [2C]	2.472905E+07	6.719297	8.687429	1.862011E-02			20	
delta-BHC [2C]	5.850208E+07	15.4103	9.180286	1.892826E-02			20	
Heptachlor [2C]	6.67268E+07	10.75322	9.237571	1.443879E-02			20	
Aldrin [2C]	6.357242E+07	12.86926	9.759429	1.937137E-02			20	
Isodrin [2C]	4.848104E+07	10.50142	10.388	1.977367E-02			20	
Heptachlor epoxide [2C]	5.626251E+07	10.12075	10.67843	1.345784E-02			20	
Chlordane-gamma [2C]	5.722595E+07	11.55541	10.97329	0.0143935			20	
Chlordane-alpha [2C]	5.472749E+07	10.61484	11.19143	1.478065E-02			20	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0612008
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 12/12/06 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	5.341989E+07	14.3939	11.47543	8.08958E-03			20	
Endosulfan I [2C]	5.087841E+07	10.58173	11.26443	1.539903E-02			20	
Dieldrin [2C]	5.608619E+07	12.66497	11.67429	1.409461E-02			20	
Endrin [2C]	4.605028E+07	12.97046	12.121	2.238532E-02			20	
4,4'-DDD [2C]	4.157866E+07	14.35952	12.32514	1.059572E-02			20	
Endosulfan II [2C]	4.58875E+07	10.14901	12.43571	1.446175E-02			20	
4,4'-DDT [2C]	4.184652E+07	14.55292	12.77157	8.580655E-03			20	
Endrin aldehyde [2C]	3.232817E+07	7.789696	12.927	1.772171E-02			20	
Methoxychlor [2C]	2.018515E+07	9.750557	13.77371	1.730293E-02			20	
Mirex [2C]	3.547509E+07	6.876961	14.01514	1.529709E-02			20	
Endosulfan sulfate [2C]	3.836149E+07	8.682433	13.32643	5.86847E-03			20	
Endrin ketone [2C]	4.596086E+07	9.726303	14.08214	6.664486E-03			20	
2,4,5,6-TCMX	4.444352E+07	11.51179	6.848286	1.831726E-02			20	
2,4,5,6-TCMX [2C]	4.882501E+07	10.56625	6.564286	1.786851E-02			20	
DBC	3.789628E+07	10.47004	14.10214	1.501689E-02			20	
DBC [2C]	3.838897E+07	10.09417	13.90914	1.274315E-02			20	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LGA012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/12/06
Lab Sample ID:	BA00090-CCV1	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0913	7.280474E+07	6.64903E+07		-8.7	20
gamma-BHC	A	0.100	0.0910	6.465721E+07	5.88373E+07		-9.0	20
beta-BHC	A	0.100	0.0941	2.323065E+07	2.18696E+07		-5.9	20
delta-BHC	A	0.100	0.0944	5.66961E+07	5.35468E+07		-5.6	20
Heptachlor	A	0.100	0.0873	6.414063E+07	5.60092E+07		-12.7	20
Aldrin	A	0.100	0.0889	6.149162E+07	5.4636E+07		-11.1	20
Heptachlor epoxide	A	0.100	0.0866	5.405995E+07	4.67915E+07		-13.4	20
Chlordane-gamma	A	0.100	0.0880	5.527518E+07	4.86244E+07		-12.0	20
Chlordane-alpha	A	0.100	0.0870	5.296272E+07	4.61023E+07		-13.0	20
4,4′-DDE	A	0.100	0.0876	5.244698E+07	4.59403E+07		-12.4	20
Endosulfan I	A	0.100	0.0874	4.972951E+07	4.34448E+07		-12.6	20
Dieldrin	A	0.100	0.0881	5.436507E+07	4.79119E+07		-11.9	20
Endrin	A	0.100	0.0879	4.627937E+07	4.06766E+07		-12.1	20
4,4′-DDD	A	0.100	0.0888	4.00135E+07	3.55458E+07		-11.2	20
Endosulfan II	A	0.100	0.0881	4.442927E+07	3.91252E+07		-11.9	20
4,4′-DDT	A	0.100	0.0869	4.164772E+07	3.61773E+07		-13.1	20
Endrin aldehyde	A	0.100	0.0926	3.13612E+07	2.90312E+07		-7.4	20
Methoxychlor	A	0.100	0.0833	2.117353E+07	1.76465E+07		-16.7	20
Endosulfan sulfate	A	0.100	0.0900	3.673694E+07	3.30732E+07		-10.0	20
Endrin ketone	A	0.100	0.0858	4.568736E+07	3.92147E+07		-14.2	20
alpha-BHC [2C]	A	0.100	0.0922	7.552835E+07	6.966E+07		-7.8	20
gamma-BHC [2C]	A	0.100	0.0916	6.719113E+07	6.15772E+07		-8.4	20
beta-BHC [2C]	A	0.100	0.0958	2.472905E+07	2.36981E+07		-4.2	20
delta-BHC [2C]	A	0.100	0.0956	5.850208E+07	5.59078E+07		-4.4	20
Heptachlor [2C]	A	0.100	0.0889	6.67268E+07	5.92886E+07		-11.1	20
Aldrin [2C]	A	0.100	0.0899	6.357242E+07	5.71449E+07		-10.1	20
Heptachlor epoxide [2C]	A	0.100	0.0881	5.626251E+07	4.95614E+07		-11.9	20
Chlordane-gamma [2C]	A	0.100	0.0895	5.722595E+07	5.12002E+07		-10.5	20
Chlordane-alpha [2C]	A	0.100	0.0884	5.472749E+07	4.84032E+07		-11.6	20

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LGB012-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/12/06
Lab Sample ID:	BA00090-CCV1	Injection Time:	21:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0902	5.341989E+07	4.81591E+07		-9.8	20
Endosulfan I [2C]	A	0.100	0.0886	5.087841E+07	4.50749E+07		-11.4	20
Dieldrin [2C]	A	0.100	0.0898	5.608619E+07	5.03544E+07		-10.2	20
Endrin [2C]	A	0.100	0.0900	4.605028E+07	4.14483E+07		-10.0	20
4,4'-DDD [2C]	A	0.100	0.0910	4.157866E+07	3.78448E+07		-9.0	20
Endosulfan II [2C]	A	0.100	0.0900	4.58875E+07	4.12939E+07		-10.0	20
4,4'-DDT [2C]	A	0.100	0.0894	4.184652E+07	3.74268E+07		-10.6	20
Endrin aldehyde [2C]	A	0.100	0.0947	3.232817E+07	3.06237E+07		-5.3	20
Methoxychlor [2C]	A	0.100	0.0851	2.018515E+07	1.71825E+07		-14.9	20
Endosulfan sulfate [2C]	A	0.100	0.0923	3.836149E+07	3.54151E+07		-7.7	20
Endrin ketone [2C]	A	0.100	0.0874	4.596086E+07	4.01542E+07		-12.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LGA024-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV2	Injection Time:	02:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0946	7.280474E+07	90		-100	20 *
gamma-BHC	A	0.100	0.0941	6.465721E+07	6.08554E+07		-5.9	20
beta-BHC	A	0.100	0.0966	2.323065E+07	2.24352E+07		-3.4	20
delta-BHC	A	0.100	0.0978	5.66961E+07	5.54413E+07		-2.2	20
Heptachlor	A	0.100	0.0891	6.414063E+07	5.71209E+07		-10.9	20
Aldrin	A	0.100	0.0917	6.149162E+07	5.63625E+07		-8.3	20
Heptachlor epoxide	A	0.100	0.0888	5.405995E+07	4.80258E+07		-11.2	20
Chlordane-gamma	A	0.100	0.0909	5.527518E+07	5.02636E+07		-9.1	20
Chlordane-alpha	A	0.100	0.0900	5.296272E+07	4.76706E+07		-10.0	20
4,4'-DDE	A	0.100	0.0897	5.244698E+07	4.70452E+07		-10.3	20
Endosulfan I	A	0.100	0.0898	4.972951E+07	4.46421E+07		-10.2	20
Dieldrin	A	0.100	0.0905	5.436507E+07	4.91858E+07		-9.5	20
Endrin	A	0.100	0.0922	4.627937E+07	4.26739E+07		-7.8	20
4,4'-DDD	A	0.100	0.0905	4.00135E+07	3.62122E+07		-9.5	20
Endosulfan II	A	0.100	0.0904	4.442927E+07	4.01609E+07		-9.6	20
4,4'-DDT	A	0.100	0.0894	4.164772E+07	3.72397E+07		-10.6	20
Endrin aldehyde	A	0.100	0.0960	3.13612E+07	3.01176E+07		-4.0	20
Methoxychlor	A	0.100	0.0848	2.117353E+07	1.79512E+07		-15.2	20
Endosulfan sulfate	A	0.100	0.0931	3.673694E+07	3.41842E+07		-6.9	20
Endrin ketone	A	0.100	0.0886	4.568736E+07	4.04943E+07		-11.4	20
alpha-BHC [2C]	A	0.100	0.0964	7.552835E+07	7.28087E+07		-3.6	20
gamma-BHC [2C]	A	0.100	0.0959	6.719113E+07	6.44206E+07		-4.1	20
beta-BHC [2C]	A	0.100	0.0996	2.472905E+07	2.4638E+07		-0.4	20
delta-BHC [2C]	A	0.100	0.0996	5.850208E+07	5.82828E+07		-0.4	20
Heptachlor [2C]	A	0.100	0.0921	6.67268E+07	6.14615E+07		-7.9	20
Aldrin [2C]	A	0.100	0.0939	6.357242E+07	5.9686E+07		-6.1	20
Heptachlor epoxide [2C]	A	0.100	0.0914	5.626251E+07	5.14134E+07		-8.6	20
Chlordane-gamma [2C]	A	0.100	0.0939	5.722595E+07	5.37277E+07		-6.1	20
Chlordane-alpha [2C]	A	0.100	0.0926	5.472749E+07	5.06896E+07		-7.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LGB024-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV2	Injection Time:	02:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0937	5.341989E+07	5.00386E+07		-6.3	20
Endosulfan I [2C]	A	0.100	0.0920	5.087841E+07	4.6821E+07		-8.0	20
Dieldrin [2C]	A	0.100	0.0933	5.608619E+07	5.23072E+07		-6.7	20
Endrin [2C]	A	0.100	0.0946	4.605028E+07	4.35657E+07		-5.4	20
4,4'-DDD [2C]	A	0.100	0.0944	4.157866E+07	3.92701E+07		-5.6	20
Endosulfan II [2C]	A	0.100	0.0934	4.58875E+07	4.28707E+07		-6.6	20
4,4'-DDT [2C]	A	0.100	0.0956	4.184652E+07	4.00013E+07		-4.4	20
Endrin aldehyde [2C]	A	0.100	0.0993	3.232817E+07	3.21026E+07		-0.7	20
Methoxychlor [2C]	A	0.100	0.0901	2.018515E+07	1.81865E+07		-9.9	20
Endosulfan sulfate [2C]	A	0.100	0.0965	3.836149E+07	3.70275E+07		-3.5	20
Endrin ketone [2C]	A	0.100	0.0920	4.596086E+07	4.22818E+07		-8.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LGA041-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV3	Injection Time:	07:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0946	7.280474E+07	6.88708E+07		-5.4	20
gamma-BHC	A	0.100	0.0941	6.465721E+07	6.08438E+07		-5.9	20
beta-BHC	A	0.100	0.0965	2.323065E+07	2.24135E+07		-3.5	20
delta-BHC	A	0.100	0.0975	5.66961E+07	5.52978E+07		-2.5	20
Heptachlor	A	0.100	0.0886	6.414063E+07	5.68593E+07		-11.4	20
Aldrin	A	0.100	0.0915	6.149162E+07	5.6272E+07		-8.5	20
Heptachlor epoxide	A	0.100	0.0886	5.405995E+07	4.79133E+07		-11.4	20
Chlordane-gamma	A	0.100	0.0907	5.527518E+07	5.01331E+07		-9.3	20
Chlordane-alpha	A	0.100	0.0899	5.296272E+07	4.76135E+07		-10.1	20
4,4′-DDE	A	0.100	0.0887	5.244698E+07	4.6531E+07		-11.3	20
Endosulfan I	A	0.100	0.0900	4.972951E+07	4.47424E+07		-10.0	20
Dieldrin	A	0.100	0.0902	5.436507E+07	4.90292E+07		-9.8	20
Endrin	A	0.100	0.0916	4.627937E+07	4.24102E+07		-8.4	20
4,4′-DDD	A	0.100	0.0894	4.00135E+07	3.57535E+07		-10.6	20
Endosulfan II	A	0.100	0.0901	4.442927E+07	4.00408E+07		-9.9	20
4,4′-DDT	A	0.100	0.0869	4.164772E+07	3.6198E+07		-13.1	20
Endrin aldehyde	A	0.100	0.0957	3.13612E+07	2.99982E+07		-4.3	20
Methoxychlor	A	0.100	0.0816	2.117353E+07	1.72748E+07		-18.4	20
Endosulfan sulfate	A	0.100	0.0945	3.673694E+07	3.47286E+07		-5.5	20
Endrin ketone	A	0.100	0.0894	4.568736E+07	4.08316E+07		-10.6	20
alpha-BHC [2C]	A	0.100	0.0964	7.552835E+07	7.27792E+07		-3.6	20
gamma-BHC [2C]	A	0.100	0.0958	6.719113E+07	6.43897E+07		-4.2	20
beta-BHC [2C]	A	0.100	0.0994	2.472905E+07	2.45859E+07		-0.6	20
delta-BHC [2C]	A	0.100	0.0994	5.850208E+07	5.81435E+07		-0.6	20
Heptachlor [2C]	A	0.100	0.0917	6.67268E+07	6.12193E+07		-8.3	20
Aldrin [2C]	A	0.100	0.0937	6.357242E+07	5.95778E+07		-6.3	20
Heptachlor epoxide [2C]	A	0.100	0.0912	5.626251E+07	5.13013E+07		-8.8	20
Chlordane-gamma [2C]	A	0.100	0.0939	5.722595E+07	5.37123E+07		-6.1	20
Chlordane-alpha [2C]	A	0.100	0.0926	5.472749E+07	5.06954E+07		-7.4	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LGB041-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV3	Injection Time:	07:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0934	5.341989E+07	4.98782E+07		-6.6	20
Endosulfan I [2C]	A	0.100	0.0919	5.087841E+07	4.67781E+07		-8.1	20
Dieldrin [2C]	A	0.100	0.0929	5.608619E+07	5.2128E+07		-7.1	20
Endrin [2C]	A	0.100	0.0947	4.605028E+07	4.35997E+07		-5.3	20
4,4'-DDD [2C]	A	0.100	0.0933	4.157866E+07	3.87936E+07		-6.7	20
Endosulfan II [2C]	A	0.100	0.0931	4.58875E+07	4.27436E+07		-6.9	20
4,4'-DDT [2C]	A	0.100	0.0913	4.184652E+07	3.82121E+07		-8.7	20
Endrin aldehyde [2C]	A	0.100	0.0990	3.232817E+07	3.20093E+07		-1.0	20
Methoxychlor [2C]	A	0.100	0.0846	2.018515E+07	1.70797E+07		-15.4	20
Endosulfan sulfate [2C]	A	0.100	0.0975	3.836149E+07	3.74053E+07		-2.5	20
Endrin ketone [2C]	A	0.100	0.0918	4.596086E+07	4.22122E+07		-8.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LGA046-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV4	Injection Time:	09:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0957	7.280474E+07	6.96693E+07		-4.3	20
gamma-BHC	A	0.100	0.0953	6.465721E+07	6.15924E+07		-4.7	20
beta-BHC	A	0.100	0.0974	2.323065E+07	2.26211E+07		-2.6	20
delta-BHC	A	0.100	0.0988	5.66961E+07	5.60234E+07		-1.2	20
Heptachlor	A	0.100	0.0899	6.414063E+07	5.76833E+07		-10.1	20
Aldrin	A	0.100	0.0925	6.149162E+07	5.68751E+07		-7.5	20
Heptachlor epoxide	A	0.100	0.0898	5.405995E+07	4.85412E+07		-10.2	20
Chlordane-gamma	A	0.100	0.0918	5.527518E+07	5.07347E+07		-8.2	20
Chlordane-alpha	A	0.100	0.0908	5.296272E+07	4.81158E+07		-9.2	20
4,4'-DDE	A	0.100	0.0898	5.244698E+07	4.70836E+07		-10.2	20
Endosulfan I	A	0.100	0.0909	4.972951E+07	4.51892E+07		-9.1	20
Dieldrin	A	0.100	0.0913	5.436507E+07	4.96416E+07		-8.7	20
Endrin	A	0.100	0.0932	4.627937E+07	4.31346E+07		-6.8	20
4,4'-DDD	A	0.100	0.0906	4.00135E+07	3.62715E+07		-9.4	20
Endosulfan II	A	0.100	0.0914	4.442927E+07	4.06291E+07		-8.6	20
4,4'-DDT	A	0.100	0.0902	4.164772E+07	3.75744E+07		-9.8	20
Endrin aldehyde	A	0.100	0.0971	3.13612E+07	3.04511E+07		-2.9	20
Methoxychlor	A	0.100	0.0858	2.117353E+07	1.81715E+07		-14.2	20
Endosulfan sulfate	A	0.100	0.0973	3.673694E+07	3.57304E+07		-2.7	20
Endrin ketone	A	0.100	0.0926	4.568736E+07	4.22975E+07		-7.4	20
alpha-BHC [2C]	A	0.100	0.0966	7.552835E+07	7.29745E+07		-3.4	20
gamma-BHC [2C]	A	0.100	0.0970	6.719113E+07	6.51657E+07		-3.0	20
beta-BHC [2C]	A	0.100	0.0999	2.472905E+07	2.47024E+07		-0.1	20
delta-BHC [2C]	A	0.100	0.100	5.850208E+07	5.84863E+07		-0.03	20
Heptachlor [2C]	A	0.100	0.0923	6.67268E+07	6.15945E+07		-7.7	20
Aldrin [2C]	A	0.100	0.0940	6.357242E+07	5.97556E+07		-6.0	20
Heptachlor epoxide [2C]	A	0.100	0.0914	5.626251E+07	5.14222E+07		-8.6	20
Chlordane-gamma [2C]	A	0.100	0.0942	5.722595E+07	5.39031E+07		-5.8	20
Chlordane-alpha [2C]	A	0.100	0.0930	5.472749E+07	5.08706E+07		-7.0	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LGB046-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV4	Injection Time:	09:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0936	5.341989E+07	5.00261E+07		-6.4	20
Endosulfan I [2C]	A	0.100	0.0922	5.087841E+07	4.69204E+07		-7.8	20
Dieldrin [2C]	A	0.100	0.0933	5.608619E+07	5.23467E+07		-6.7	20
Endrin [2C]	A	0.100	0.0962	4.605028E+07	4.43129E+07		-3.8	20
4,4'-DDD [2C]	A	0.100	0.0944	4.157866E+07	3.92519E+07		-5.6	20
Endosulfan II [2C]	A	0.100	0.0939	4.58875E+07	4.30764E+07		-6.1	20
4,4'-DDT [2C]	A	0.100	0.0959	4.184652E+07	4.0124E+07		-4.1	20
Endrin aldehyde [2C]	A	0.100	0.0997	3.232817E+07	3.22249E+07		-0.3	20
Methoxychlor [2C]	A	0.100	0.0907	2.018515E+07	1.83117E+07		-9.3	20
Endosulfan sulfate [2C]	A	0.100	0.0996	3.836149E+07	3.82258E+07		-0.4	20
Endrin ketone [2C]	A	0.100	0.0951	4.596086E+07	4.37311E+07		-4.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHA003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00099	Injection Date:	12/13/06
Lab Sample ID:	BA00099-CCV1	Injection Time:	13:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0956	7.280474E+07	6.95995E+07		-4.4	20
gamma-BHC	A	0.100	0.0951	6.465721E+07	6.14913E+07		-4.9	20
beta-BHC	A	0.100	0.0979	2.323065E+07	2.27449E+07		-2.1	20
delta-BHC	A	0.100	0.0979	5.66961E+07	5.55309E+07		-2.1	20
Heptachlor	A	0.100	0.0890	6.414063E+07	5.70754E+07		-11.0	20
Aldrin	A	0.100	0.0921	6.149162E+07	5.66422E+07		-7.9	20
Heptachlor epoxide	A	0.100	0.0893	5.405995E+07	4.82512E+07		-10.7	20
Chlordane-gamma	A	0.100	0.0916	5.527518E+07	5.06522E+07		-8.4	20
Chlordane-alpha	A	0.100	0.0907	5.296272E+07	4.80325E+07		-9.3	20
4,4'-DDE	A	0.100	0.0894	5.244698E+07	4.68994E+07		-10.6	20
Endosulfan I	A	0.100	0.0905	4.972951E+07	4.5008E+07		-9.5	20
Dieldrin	A	0.100	0.0907	5.436507E+07	4.92864E+07		-9.3	20
Endrin	A	0.100	0.0927	4.627937E+07	4.28984E+07		-7.3	20
4,4'-DDD	A	0.100	0.0897	4.00135E+07	3.58827E+07		-10.3	20
Endosulfan II	A	0.100	0.0907	4.442927E+07	4.02786E+07		-9.3	20
4,4'-DDT	A	0.100	0.0872	4.164772E+07	3.63268E+07		-12.8	20
Endrin aldehyde	A	0.100	0.0958	3.13612E+07	3.00593E+07		-4.2	20
Methoxychlor	A	0.100	0.0812	2.117353E+07	1.71874E+07		-18.8	20
Endosulfan sulfate	A	0.100	0.0951	3.673694E+07	3.49213E+07		-4.9	20
Endrin ketone	A	0.100	0.0896	4.568736E+07	4.09463E+07		-10.4	20
alpha-BHC [2C]	A	0.100	0.0966	7.552835E+07	7.29536E+07		-3.4	20
gamma-BHC [2C]	A	0.100	0.0957	6.719113E+07	6.43077E+07		-4.3	20
beta-BHC [2C]	A	0.100	0.0994	2.472905E+07	2.45748E+07		-0.6	20
delta-BHC [2C]	A	0.100	0.0993	5.850208E+07	5.80915E+07		-0.7	20
Heptachlor [2C]	A	0.100	0.0920	6.67268E+07	6.13851E+07		-8.0	20
Aldrin [2C]	A	0.100	0.0943	6.357242E+07	5.99188E+07		-5.7	20
Heptachlor epoxide [2C]	A	0.100	0.0915	5.626251E+07	5.14721E+07		-8.5	20
Chlordane-gamma [2C]	A	0.100	0.0945	5.722595E+07	5.41014E+07		-5.5	20
Chlordane-alpha [2C]	A	0.100	0.0932	5.472749E+07	5.10124E+07		-6.8	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHB003-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00099	Injection Date:	12/13/06
Lab Sample ID:	BA00099-CCV1	Injection Time:	13:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0941	5.341989E+07	5.02476E+07		-5.9	20
Endosulfan I [2C]	A	0.100	0.0925	5.087841E+07	4.70656E+07		-7.5	20
Dieldrin [2C]	A	0.100	0.0935	5.608619E+07	5.24289E+07		-6.5	20
Endrin [2C]	A	0.100	0.0947	4.605028E+07	4.36306E+07		-5.3	20
4,4'-DDD [2C]	A	0.100	0.0935	4.157866E+07	3.8878E+07		-6.5	20
Endosulfan II [2C]	A	0.100	0.0934	4.58875E+07	4.28569E+07		-6.6	20
4,4'-DDT [2C]	A	0.100	0.0916	4.184652E+07	3.83288E+07		-8.4	20
Endrin aldehyde [2C]	A	0.100	0.0990	3.232817E+07	3.20011E+07		-1.0	20
Methoxychlor [2C]	A	0.100	0.0835	2.018515E+07	1.68577E+07		-16.5	20
Endosulfan sulfate [2C]	A	0.100	0.0976	3.836149E+07	3.74294E+07		-2.4	20
Endrin ketone [2C]	A	0.100	0.0922	4.596086E+07	4.238E+07		-7.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHA014-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV5	Injection Time:	18:15

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0971	7.280474E+07	7.06704E+07		-2.9	20
gamma-BHC	A	0.100	0.0964	6.465721E+07	6.23065E+07		-3.6	20
beta-BHC	A	0.100	0.0992	2.323065E+07	2.30458E+07		-0.8	20
delta-BHC	A	0.100	0.101	5.66961E+07	5.7424E+07		1.3	20
Heptachlor	A	0.100	0.0915	6.414063E+07	5.87013E+07		-8.5	20
Aldrin	A	0.100	0.0928	6.149162E+07	5.7036E+07		-7.2	20
Heptachlor epoxide	A	0.100	0.0897	5.405995E+07	4.84664E+07		-10.3	20
Chlordane-gamma	A	0.100	0.0913	5.527518E+07	5.04627E+07		-8.7	20
Chlordane-alpha	A	0.100	0.0906	5.296272E+07	4.79693E+07		-9.4	20
4,4′-DDE	A	0.100	0.0898	5.244698E+07	4.71054E+07		-10.2	20
Endosulfan I	A	0.100	0.0904	4.972951E+07	4.49568E+07		-9.6	20
Dieldrin	A	0.100	0.0911	5.436507E+07	4.95274E+07		-8.9	20
Endrin	A	0.100	0.0939	4.627937E+07	4.34775E+07		-6.1	20
4,4′-DDD	A	0.100	0.0917	4.00135E+07	3.66818E+07		-8.3	20
Endosulfan II	A	0.100	0.0913	4.442927E+07	4.05783E+07		-8.7	20
4,4′-DDT	A	0.100	0.0918	4.164772E+07	3.82203E+07		-8.2	20
Endrin aldehyde	A	0.100	0.0960	3.13612E+07	3.01117E+07		-4.0	20
Methoxychlor	A	0.100	0.0881	2.117353E+07	1.86435E+07		-11.9	20
Endosulfan sulfate	A	0.100	0.0980	3.673694E+07	3.59993E+07		-2.0	20
Endrin ketone	A	0.100	0.0937	4.568736E+07	4.27924E+07		-6.3	20
alpha-BHC [2C]	A	0.100	0.0979	7.552835E+07	7.39458E+07		-2.1	20
gamma-BHC [2C]	A	0.100	0.0980	6.719113E+07	6.58376E+07		-2.0	20
beta-BHC [2C]	A	0.100	0.101	2.472905E+07	2.5005E+07		1.1	20
delta-BHC [2C]	A	0.100	0.102	5.850208E+07	5.99406E+07		2.5	20
Heptachlor [2C]	A	0.100	0.0938	6.67268E+07	6.26028E+07		-6.2	20
Aldrin [2C]	A	0.100	0.0943	6.357242E+07	5.9956E+07		-5.7	20
Heptachlor epoxide [2C]	A	0.100	0.0915	5.626251E+07	5.14984E+07		-8.5	20
Chlordane-gamma [2C]	A	0.100	0.0940	5.722595E+07	5.37961E+07		-6.0	20
Chlordane-alpha [2C]	A	0.100	0.0927	5.472749E+07	5.07358E+07		-7.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHB014-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV5	Injection Time:	18:15

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0938	5.341989E+07	5.01252E+07		-6.2	20
Endosulfan I [2C]	A	0.100	0.0921	5.087841E+07	4.68569E+07		-7.9	20
Dieldrin [2C]	A	0.100	0.0931	5.608619E+07	5.22368E+07		-6.9	20
Endrin [2C]	A	0.100	0.0967	4.605028E+07	4.45088E+07		-3.3	20
4,4'-DDD [2C]	A	0.100	0.0947	4.157866E+07	3.93628E+07		-5.3	20
Endosulfan II [2C]	A	0.100	0.0933	4.58875E+07	4.27967E+07		-6.7	20
4,4'-DDT [2C]	A	0.100	0.0955	4.184652E+07	3.99698E+07		-4.5	20
Endrin aldehyde [2C]	A	0.100	0.0988	3.232817E+07	3.19487E+07		-1.2	20
Methoxychlor [2C]	A	0.100	0.0904	2.018515E+07	1.82401E+07		-9.6	20
Endosulfan sulfate [2C]	A	0.100	0.100	3.836149E+07	3.84509E+07		0.2	20
Endrin ketone [2C]	A	0.100	0.0956	4.596086E+07	4.39363E+07		-4.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHA018-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV6	Injection Time:	19:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0873	7.280474E+07	6.35538E+07		-12.7	20
gamma-BHC	A	0.100	0.0880	6.465721E+07	5.69285E+07		-12.0	20
beta-BHC	A	0.100	0.0894	2.323065E+07	2.07704E+07		-10.6	20
delta-BHC	A	0.100	0.0879	5.66961E+07	4.9855E+07		-12.1	20
Heptachlor	A	0.100	0.0826	6.414063E+07	5.29631E+07		-17.4	20
Aldrin	A	0.100	0.0857	6.149162E+07	5.26852E+07		-14.3	20
Heptachlor epoxide	A	0.100	0.0822	5.405995E+07	4.44486E+07		-17.8	20
Chlordane-gamma	A	0.100	0.0838	5.527518E+07	4.63142E+07		-16.2	20
Chlordane-alpha	A	0.100	0.0833	5.296272E+07	4.41025E+07		-16.7	20
4,4′-DDE	A	0.100	0.0820	5.244698E+07	4.30094E+07		-18.0	20
Endosulfan I	A	0.100	0.0837	4.972951E+07	4.16149E+07		-16.3	20
Dieldrin	A	0.100	0.0842	5.436507E+07	4.57842E+07		-15.8	20
Endrin	A	0.100	0.0852	4.627937E+07	3.94375E+07		-14.8	20
4,4′-DDD	A	0.100	0.0827	4.00135E+07	3.30864E+07		-17.3	20
Endosulfan II	A	0.100	0.0832	4.442927E+07	3.69818E+07		-16.8	20
4,4′-DDT	A	0.100	0.0835	4.164772E+07	3.47719E+07		-16.5	20
Endrin aldehyde	A	0.100	0.0893	3.13612E+07	2.79993E+07		-10.7	20
Methoxychlor	A	0.100	0.0800	2.117353E+07	1.69314E+07		-20.0	20
Endosulfan sulfate	A	0.100	0.0905	3.673694E+07	3.32599E+07		-9.5	20
Endrin ketone	A	0.100	0.0862	4.568736E+07	3.93916E+07		-13.8	20
alpha-BHC [2C]	A	0.100	0.0987	7.552835E+07	7.45564E+07		-1.3	20
gamma-BHC [2C]	A	0.100	0.0989	6.719113E+07	6.64251E+07		-1.1	20
beta-BHC [2C]	A	0.100	0.102	2.472905E+07	2.52684E+07		2.2	20
delta-BHC [2C]	A	0.100	0.102	5.850208E+07	5.99088E+07		2.4	20
Heptachlor [2C]	A	0.100	0.0946	6.67268E+07	6.31024E+07		-5.4	20
Aldrin [2C]	A	0.100	0.0955	6.357242E+07	6.07062E+07		-4.5	20
Heptachlor epoxide [2C]	A	0.100	0.0925	5.626251E+07	5.20242E+07		-7.5	20
Chlordane-gamma [2C]	A	0.100	0.0958	5.722595E+07	5.48154E+07		-4.2	20
Chlordane-alpha [2C]	A	0.100	0.0943	5.472749E+07	5.16228E+07		-5.7	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LHB018-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00090	Injection Date:	12/13/06
Lab Sample ID:	BA00090-CCV6	Injection Time:	19:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0952	5.341989E+07	5.0857E+07		-4.8	20
Endosulfan I [2C]	A	0.100	0.0934	5.087841E+07	4.75019E+07		-6.6	20
Dieldrin [2C]	A	0.100	0.0943	5.608619E+07	5.2906E+07		-5.7	20
Endrin [2C]	A	0.100	0.0969	4.605028E+07	4.46121E+07		-3.1	20
4,4'-DDD [2C]	A	0.100	0.0954	4.157866E+07	3.96517E+07		-4.6	20
Endosulfan II [2C]	A	0.100	0.0945	4.58875E+07	4.33605E+07		-5.5	20
4,4'-DDT [2C]	A	0.100	0.0958	4.184652E+07	4.01048E+07		-4.2	20
Endrin aldehyde [2C]	A	0.100	0.100	3.232817E+07	3.23173E+07		-0.03	20
Methoxychlor [2C]	A	0.100	0.0901	2.018515E+07	1.81941E+07		-9.9	20
Endosulfan sulfate [2C]	A	0.100	0.101	3.836149E+07	3.86129E+07		0.7	20
Endrin ketone [2C]	A	0.100	0.0957	4.596086E+07	4.39931E+07		-4.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIA009-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00099	Injection Date:	12/14/06
Lab Sample ID:	BA00099-CCV3	Injection Time:	20:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0932	7.280474E+07	6.78813E+07		-6.8	20
gamma-BHC	A	0.100	0.0924	6.465721E+07	5.97746E+07		-7.6	20
beta-BHC	A	0.100	0.0951	2.323065E+07	2.21027E+07		-4.9	20
delta-BHC	A	0.100	0.0962	5.66961E+07	5.45694E+07		-3.8	20
Heptachlor	A	0.100	0.0882	6.414063E+07	5.65552E+07		-11.8	20
Aldrin	A	0.100	0.0900	6.149162E+07	5.532E+07		-10.0	20
Heptachlor epoxide	A	0.100	0.0879	5.405995E+07	4.75276E+07		-12.1	20
Chlordane-gamma	A	0.100	0.0884	5.527518E+07	4.88886E+07		-11.6	20
Chlordane-alpha	A	0.100	0.0877	5.296272E+07	4.64442E+07		-12.3	20
4,4'-DDE	A	0.100	0.0877	5.244698E+07	4.60166E+07		-12.3	20
Endosulfan I	A	0.100	0.0882	4.972951E+07	4.38535E+07		-11.8	20
Dieldrin	A	0.100	0.0887	5.436507E+07	4.8235E+07		-11.3	20
Endrin	A	0.100	0.0884	4.627937E+07	4.09088E+07		-11.6	20
4,4'-DDD	A	0.100	0.0886	4.00135E+07	3.54486E+07		-11.4	20
Endosulfan II	A	0.100	0.0883	4.442927E+07	3.92483E+07		-11.7	20
4,4'-DDT	A	0.100	0.0861	4.164772E+07	3.58408E+07		-13.9	20
Endrin aldehyde	A	0.100	0.0920	3.13612E+07	2.88378E+07		-8.0	20
Methoxychlor	A	0.100	0.0810	2.117353E+07	1.71407E+07		-19.0	20
Endosulfan sulfate	A	0.100	0.0925	3.673694E+07	3.39971E+07		-7.5	20
Endrin ketone	A	0.100	0.0890	4.568736E+07	4.06411E+07		-11.0	20
alpha-BHC [2C]	A	0.100	0.0932	7.552835E+07	7.04185E+07		-6.8	20
gamma-BHC [2C]	A	0.100	0.0929	6.719113E+07	6.24497E+07		-7.1	20
beta-BHC [2C]	A	0.100	0.0964	2.472905E+07	2.38417E+07		-3.6	20
delta-BHC [2C]	A	0.100	0.0963	5.850208E+07	5.63267E+07		-3.7	20
Heptachlor [2C]	A	0.100	0.0893	6.67268E+07	5.95675E+07		-10.7	20
Aldrin [2C]	A	0.100	0.0902	6.357242E+07	5.7339E+07		-9.8	20
Heptachlor epoxide [2C]	A	0.100	0.0879	5.626251E+07	4.94712E+07		-12.1	20
Chlordane-gamma [2C]	A	0.100	0.0885	5.722595E+07	5.06371E+07		-11.5	20
Chlordane-alpha [2C]	A	0.100	0.0879	5.472749E+07	4.80821E+07		-12.1	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIB009-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00099	Injection Date:	12/14/06
Lab Sample ID:	BA00099-CCV3	Injection Time:	20:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0888	5.341989E+07	4.74623E+07		-11.2	20
Endosulfan I [2C]	A	0.100	0.0883	5.087841E+07	4.49301E+07		-11.7	20
Dieldrin [2C]	A	0.100	0.0891	5.608619E+07	4.99643E+07		-10.9	20
Endrin [2C]	A	0.100	0.0883	4.605028E+07	4.06744E+07		-11.7	20
4,4'-DDD [2C]	A	0.100	0.0890	4.157866E+07	3.69993E+07		-11.0	20
Endosulfan II [2C]	A	0.100	0.0887	4.58875E+07	4.07136E+07		-11.3	20
4,4'-DDT [2C]	A	0.100	0.0861	4.184652E+07	3.60278E+07		-13.9	20
Endrin aldehyde [2C]	A	0.100	0.0925	3.232817E+07	2.98949E+07		-7.5	20
Methoxychlor [2C]	A	0.100	0.0816	2.018515E+07	1.64617E+07		-18.4	20
Endosulfan sulfate [2C]	A	0.100	0.0935	3.836149E+07	3.58541E+07		-6.5	20
Endrin ketone [2C]	A	0.100	0.0891	4.596086E+07	4.09503E+07		-10.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIA013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00099	Injection Date:	12/14/06
Lab Sample ID:	BA00099-CCV4	Injection Time:	22:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.0943	7.280474E+07	6.86584E+07		-5.7	20
gamma-BHC	A	0.100	0.0933	6.465721E+07	6.02971E+07		-6.7	20
beta-BHC	A	0.100	0.0963	2.323065E+07	2.23667E+07		-3.7	20
delta-BHC	A	0.100	0.0978	5.66961E+07	5.54468E+07		-2.2	20
Heptachlor	A	0.100	0.0891	6.414063E+07	5.71259E+07		-10.9	20
Aldrin	A	0.100	0.0911	6.149162E+07	5.60341E+07		-8.9	20
Heptachlor epoxide	A	0.100	0.0889	5.405995E+07	4.80416E+07		-11.1	20
Chlordane-gamma	A	0.100	0.0898	5.527518E+07	4.96328E+07		-10.2	20
Chlordane-alpha	A	0.100	0.0890	5.296272E+07	4.71404E+07		-11.0	20
4,4'-DDE	A	0.100	0.0886	5.244698E+07	4.64899E+07		-11.4	20
Endosulfan I	A	0.100	0.0897	4.972951E+07	4.46053E+07		-10.3	20
Dieldrin	A	0.100	0.0901	5.436507E+07	4.89883E+07		-9.9	20
Endrin	A	0.100	0.0904	4.627937E+07	4.1843E+07		-9.6	20
4,4'-DDD	A	0.100	0.0896	4.00135E+07	3.58683E+07		-10.4	20
Endosulfan II	A	0.100	0.0899	4.442927E+07	3.99405E+07		-10.1	20
4,4'-DDT	A	0.100	0.0874	4.164772E+07	3.63799E+07		-12.6	20
Endrin aldehyde	A	0.100	0.0948	3.13612E+07	2.97202E+07		-5.2	20
Methoxychlor	A	0.100	0.0815	2.117353E+07	1.72667E+07		-18.5	20
Endosulfan sulfate	A	0.100	0.0944	3.673694E+07	3.46704E+07		-5.6	20
Endrin ketone	A	0.100	0.0902	4.568736E+07	4.11946E+07		-9.8	20
alpha-BHC [2C]	A	0.100	0.0970	7.552835E+07	7.32564E+07		-3.0	20
gamma-BHC [2C]	A	0.100	0.0959	6.719113E+07	6.44311E+07		-4.1	20
beta-BHC [2C]	A	0.100	0.100	2.472905E+07	2.47756E+07		0.2	20
delta-BHC [2C]	A	0.100	0.100	5.850208E+07	5.87617E+07		0.4	20
Heptachlor [2C]	A	0.100	0.0931	6.67268E+07	6.21379E+07		-6.9	20
Aldrin [2C]	A	0.100	0.0939	6.357242E+07	5.97042E+07		-6.1	20
Heptachlor epoxide [2C]	A	0.100	0.0916	5.626251E+07	5.15516E+07		-8.4	20
Chlordane-gamma [2C]	A	0.100	0.0925	5.722595E+07	5.2937E+07		-7.5	20
Chlordane-alpha [2C]	A	0.100	0.0917	5.472749E+07	5.02051E+07		-8.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0612008
Lab File ID:	9LIB013-0	Calibration Date:	12/12/06 13:26
Sequence:	BA00099	Injection Date:	12/14/06
Lab Sample ID:	BA00099-CCV4	Injection Time:	22:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.0928	5.341989E+07	4.95653E+07		-7.2	20
Endosulfan I [2C]	A	0.100	0.0921	5.087841E+07	4.68738E+07		-7.9	20
Dieldrin [2C]	A	0.100	0.0929	5.608619E+07	5.21248E+07		-7.1	20
Endrin [2C]	A	0.100	0.0933	4.605028E+07	4.29422E+07		-6.7	20
4,4'-DDD [2C]	A	0.100	0.0930	4.157866E+07	3.86694E+07		-7.0	20
Endosulfan II [2C]	A	0.100	0.0929	4.58875E+07	4.26126E+07		-7.1	20
4,4'-DDT [2C]	A	0.100	0.0902	4.184652E+07	3.77256E+07		-9.8	20
Endrin aldehyde [2C]	A	0.100	0.0981	3.232817E+07	3.17249E+07		-1.9	20
Methoxychlor [2C]	A	0.100	0.0849	2.018515E+07	1.71456E+07		-15.1	20
Endosulfan sulfate [2C]	A	0.100	0.0981	3.836149E+07	3.76174E+07		-1.9	20
Endrin ketone [2C]	A	0.100	0.0932	4.596086E+07	4.28409E+07		-6.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L11022 12-13 11:23
Laboratory ID: 6L11022-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.628	63	60 - 130
gamma-BHC	1.00	0.637	64	25 - 135
beta-BHC	1.00	0.674	67	65 - 125
delta-BHC	1.00	0.637	64	45 - 135
Heptachlor	1.00	0.614	61	40 - 130
Aldrin	1.00	0.616	62	25 - 140
Heptachlor epoxide	1.00	0.624	62	60 - 130
Chlordane-gamma	1.00	0.627	63	60 - 125
Chlordane-alpha	1.00	0.624	62 *	65 - 125
4,4'-DDE	1.00	0.626	63	35 - 140
Endosulfan I	1.00	0.625	62	50 - 110
Dieldrin	1.00	0.633	63	60 - 130
Endrin	1.00	0.644	64	55 - 135
4,4'-DDD	1.00	0.632	63	25 - 150
Endosulfan II	1.00	0.637	64	30 - 130
4,4'-DDT	1.00	0.625	62	45 - 140
Endrin aldehyde	1.00	0.660	66	55 - 135
Methoxychlor	1.00	0.616	62	55 - 150
Endosulfan sulfate	1.00	0.649	65	55 - 135
Endrin ketone	1.00	0.625	62 *	75 - 125
alpha-BHC [2C]	1.00	0.650	65	60 - 130
gamma-BHC [2C]	1.00	0.655	66	25 - 135
beta-BHC [2C]	1.00	0.696	70	65 - 125
delta-BHC [2C]	1.00	0.661	66	45 - 135
Heptachlor [2C]	1.00	0.635	64	40 - 130
Aldrin [2C]	1.00	0.637	64	25 - 140
Heptachlor epoxide [2C]	1.00	0.648	65	60 - 130
Chlordane-gamma [2C]	1.00	0.654	65	60 - 125
Chlordane-alpha [2C]	1.00	0.648	65	65 - 125
4,4'-DDE [2C]	1.00	0.656	66	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L11022
Laboratory ID: 6L11022-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.649	65	50 - 110
Dieldrin [2C]	1.00	0.657	66	60 - 130
Endrin [2C]	1.00	0.667	67	55 - 135
4,4'-DDD [2C]	1.00	0.664	66	25 - 150
Endosulfan II [2C]	1.00	0.664	66	30 - 130
4,4'-DDT [2C]	1.00	0.657	66	45 - 140
Endrin aldehyde [2C]	1.00	0.687	69	55 - 135
Methoxychlor [2C]	1.00	0.642	64	55 - 150
Endosulfan sulfate [2C]	1.00	0.679	68	55 - 135
Endrin ketone [2C]	1.00	0.650	65 *	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08003 12-13 14:11
Laboratory ID: 6L08003-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.760	76	60 - 130
gamma-BHC	1.00	0.770	77	25 - 135
beta-BHC	1.00	0.804	80	65 - 125
delta-BHC	1.00	0.768	77	45 - 135
Heptachlor	1.00	0.728	73	40 - 130
Aldrin	1.00	0.735	74	25 - 140
Heptachlor epoxide	1.00	0.741	74	60 - 130
Chlordane-gamma	1.00	0.752	75	60 - 125
Chlordane-alpha	1.00	0.747	75	65 - 125
4,4′-DDE	1.00	0.734	73	35 - 140
Endosulfan I	1.00	0.747	75	50 - 110
Dieldrin	1.00	0.751	75	60 - 130
Endrin	1.00	0.774	77	55 - 135
4,4′-DDD	1.00	0.741	74	25 - 150
Endosulfan II	1.00	0.756	76	30 - 130
4,4′-DDT	1.00	0.732	73	45 - 140
Endrin aldehyde	1.00	0.780	78	55 - 135
Methoxychlor	1.00	0.694	69	55 - 150
Endosulfan sulfate	1.00	0.788	79	55 - 135
Endrin ketone	1.00	0.750	75	75 - 125
alpha-BHC [2C]	1.00	0.780	78	60 - 130
gamma-BHC [2C]	1.00	0.787	79	25 - 135
beta-BHC [2C]	1.00	0.827	83	65 - 125
delta-BHC [2C]	1.00	0.791	79	45 - 135
Heptachlor [2C]	1.00	0.756	76	40 - 130
Aldrin [2C]	1.00	0.760	76	25 - 140
Heptachlor epoxide [2C]	1.00	0.767	77	60 - 130
Chlordane-gamma [2C]	1.00	0.788	79	60 - 125
Chlordane-alpha [2C]	1.00	0.778	78	65 - 125
4,4'-DDE [2C]	1.00	0.779	78	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08003
Laboratory ID: 6L08003-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.772	77	50 - 110
Dieldrin [2C]	1.00	0.781	78	60 - 130
Endrin [2C]	1.00	0.801	80	55 - 135
4,4'-DDD [2C]	1.00	0.786	79	25 - 150
Endosulfan II [2C]	1.00	0.787	79	30 - 130
4,4'-DDT [2C]	1.00	0.777	78	45 - 140
Endrin aldehyde [2C]	1.00	0.812	81	55 - 135
Methoxychlor [2C]	1.00	0.707	71	55 - 150
Endosulfan sulfate [2C]	1.00	0.817	82	55 - 135
Endrin ketone [2C]	1.00	0.775	78	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08003
Laboratory ID: 6L08003-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	ND	0.747	75	60 - 130
gamma-BHC	1.00	ND	0.756	76	25 - 135
beta-BHC	1.00	ND	0.787	79	65 - 125
delta-BHC	1.00	ND	0.740	74	45 - 135
Heptachlor	1.00	ND	0.714	71	40 - 130
Aldrin	1.00	ND	0.725	72	25 - 140
Heptachlor epoxide	1.00	ND	0.726	73	60 - 130
Chlordane-gamma	1.00	ND	0.736	74	60 - 125
Chlordane-alpha	1.00	ND	0.731	73	65 - 125
4,4′-DDE	1.00	ND	0.716	72	35 - 140
Endosulfan I	1.00	ND	0.731	73	50 - 110
Dieldrin	1.00	ND	0.735	74	60 - 130
Endrin	1.00	ND	0.758	76	55 - 135
4,4′-DDD	1.00	ND	0.721	72	25 - 150
Endosulfan II	1.00	ND	0.739	74	30 - 130
4,4′-DDT	1.00	0.00700	0.703	70	45 - 140
Endrin aldehyde	1.00	ND	0.763	76	55 - 135
Methoxychlor	1.00	ND	0.679	68	55 - 150
Endosulfan sulfate	1.00	ND	0.771	77	55 - 135
Endrin ketone	1.00	ND	0.735	74 *	75 - 125
alpha-BHC [2C]	1.00	ND	0.769	77	60 - 130
gamma-BHC [2C]	1.00	ND	0.772	77	25 - 135
beta-BHC [2C]	1.00	ND	0.812	81	65 - 125
delta-BHC [2C]	1.00	ND	0.777	78	45 - 135
Heptachlor [2C]	1.00	ND	0.741	74	40 - 130
Aldrin [2C]	1.00	ND	0.749	75	25 - 140
Heptachlor epoxide [2C]	1.00	ND	0.752	75	60 - 130
Chlordane-gamma [2C]	1.00	ND	0.770	77	60 - 125
Chlordane-alpha [2C]	1.00	ND	0.761	76	65 - 125
4,4'-DDE [2C]	1.00	ND	0.760	76	35 - 140
Endosulfan I [2C]	1.00	ND	0.757	76	50 - 110
Dieldrin [2C]	1.00	ND	0.765	76	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08003
Laboratory ID: 6L08003-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	ND	0.784	78	55 - 135
4,4'-DDD [2C]	1.00	ND	0.764	76	25 - 150
Endosulfan II [2C]	1.00	ND	0.773	77	30 - 130
4,4'-DDT [2C]	1.00	0.00700	0.741	73	45 - 140
Endrin aldehyde [2C]	1.00	ND	0.796	80	55 - 135
Methoxychlor [2C]	1.00	ND	0.687	69	55 - 150
Endosulfan sulfate [2C]	1.00	ND	0.802	80	55 - 135
Endrin ketone [2C]	1.00	ND	0.760	76	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	0.755	76	1	30	60 - 130
gamma-BHC	1.00	0.767	77	1	30	25 - 135
beta-BHC	1.00	0.805	80	2	30	65 - 125
delta-BHC	1.00	0.762	76	3	30	45 - 135
Heptachlor	1.00	0.731	73	2	30	40 - 130
Aldrin	1.00	0.738	74	2	30	25 - 140
Heptachlor epoxide	1.00	0.745	74	3	30	60 - 130
Chlordane-gamma	1.00	0.759	76	3	30	60 - 125
Chlordane-alpha	1.00	0.755	76	3	30	65 - 125
4,4'-DDE	1.00	0.741	74	3	30	35 - 140
Endosulfan I	1.00	0.750	75	3	30	50 - 110
Dieldrin	1.00	0.756	76	3	30	60 - 130
Endrin	1.00	0.782	78	3	30	55 - 135
4,4'-DDD	1.00	0.751	75	4	30	25 - 150
Endosulfan II	1.00	0.759	76	3	30	30 - 130
4,4'-DDT	1.00	0.733	73	4	30	45 - 140
Endrin aldehyde	1.00	0.774	77	1	30	55 - 135
Methoxychlor	1.00	0.693	69	2	30	55 - 150
Endosulfan sulfate	1.00	0.781	78	1	30	55 - 135
Endrin ketone	1.00	0.743	74 *	1	30	75 - 125
alpha-BHC [2C]	1.00	0.797	80	4	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 6L08003
Laboratory ID: 6L08003-MSD1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.800	80	4	30	25 - 135
beta-BHC [2C]	1.00	0.844	84	4	30	65 - 125
delta-BHC [2C]	1.00	0.809	81	4	30	45 - 135
Heptachlor [2C]	1.00	0.768	77	4	30	40 - 130
Aldrin [2C]	1.00	0.773	77	3	30	25 - 140
Heptachlor epoxide [2C]	1.00	0.778	78	3	30	60 - 130
Chlordane-gamma [2C]	1.00	0.799	80	4	30	60 - 125
Chlordane-alpha [2C]	1.00	0.792	79	4	30	65 - 125
4,4'-DDE [2C]	1.00	0.789	79	4	30	35 - 140
Endosulfan I [2C]	1.00	0.786	79	4	30	50 - 110
Dieldrin [2C]	1.00	0.795	80	4	30	60 - 130
Endrin [2C]	1.00	0.817	82	4	30	55 - 135
4,4'-DDD [2C]	1.00	0.802	80	5	30	25 - 150
Endosulfan II [2C]	1.00	0.801	80	4	30	30 - 130
4,4'-DDT [2C]	1.00	0.770	76	4	30	45 - 140
Endrin aldehyde [2C]	1.00	0.823	82	3	30	55 - 135
Methoxychlor [2C]	1.00	0.739	74	7	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.832	83	4	30	55 - 135
Endrin ketone [2C]	1.00	0.786	79	3	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00090	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Instrument Blank (BA00090-IBL1)			Lab File ID: 9LGA001-0		Analyzed: 12/12/06 16:33			
2,4,5,6-TCMX			25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.567	6.564286	0.0027	+/-0.3	
DBC			30 - 135	14.111	14.10214	0.0089	+/-0.3	
DBC [2C]			30 - 135	13.935	13.90914	0.0259	+/-0.3	
Calibration Check (BA00090-CCV1)			Lab File ID: 9LGA012-0		Analyzed: 12/12/06 21:31			
2,4,5,6-TCMX	0.100	92	25 - 140	6.849	6.848286	0.0007	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	93	25 - 140	6.565	6.564286	0.0007	+/-0.3	
DBC	0.100	92	30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	0.100	92	30 - 135	13.91	13.90914	0.0009	+/-0.3	
Blank (6L11022-BLK1)			Lab File ID: 9LGA013-0		Analyzed: 12/12/06 21:57			
2,4,5,6-TCMX	1.00	118	25 - 140	6.849	6.848286	0.0007	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	119	25 - 140	6.566	6.564286	0.0017	+/-0.3	
DBC	1.00	136	30 - 135	14.102	14.10214	-0.0001	+/-0.3	*
DBC [2C]	1.00	138	30 - 135	13.909	13.90914	-0.0001	+/-0.3	*
LCS (6L11022-BS1)			Lab File ID: 9LGA014-0		Analyzed: 12/12/06 22:23			
2,4,5,6-TCMX	1.00	121	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	123	25 - 140	6.568	6.564286	0.0037	+/-0.3	
DBC	1.00	138	30 - 135	14.105	14.10214	0.0029	+/-0.3	*
DBC [2C]	1.00	140	30 - 135	13.911	13.90914	0.0019	+/-0.3	*
Matrix Spike (6L11022-MS1)			Lab File ID: 9LGA015-0		Analyzed: 12/12/06 22:49			
2,4,5,6-TCMX	1.00	122	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	123	25 - 140	6.568	6.564286	0.0037	+/-0.3	
DBC	1.00	136	30 - 135	14.105	14.10214	0.0029	+/-0.3	*
DBC [2C]	1.00	140	30 - 135	13.913	13.90914	0.0039	+/-0.3	*
Matrix Spike Dup (6L11022-MSD1)			Lab File ID: 9LGA016-0		Analyzed: 12/12/06 23:15			
2,4,5,6-TCMX	1.00	60	25 - 140	6.852	6.848286	0.0037	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	62	25 - 140	6.569	6.564286	0.0047	+/-0.3	
DBC	1.00	66	30 - 135	14.105	14.10214	0.0029	+/-0.3	
DBC [2C]	1.00	68	30 - 135	13.913	13.90914	0.0039	+/-0.3	
JAX47-MW16D-120506 (B610567-01)			Lab File ID: 9LGA018-0		Analyzed: 12/13/06 00:07			
2,4,5,6-TCMX	1.00	56	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	55	25 - 140	6.567	6.564286	0.0027	+/-0.3	
DBC	1.00	59	30 - 135	14.104	14.10214	0.0019	+/-0.3	
DBC [2C]	1.00	61	30 - 135	13.911	13.90914	0.0019	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00090	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW16S-120506 (B610567-02)			Lab File ID: 9LGA019-0		Analyzed: 12/13/06 00:33			
2,4,5,6-TCMX	1.00	55	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	57	25 - 140	6.568	6.564286	0.0037	+/-0.3	
DBC	1.00	58	30 - 135	14.105	14.10214	0.0029	+/-0.3	
DBC [2C]	1.00	61	30 - 135	13.912	13.90914	0.0029	+/-0.3	
JAX47-MW17D-120506 (B610567-03)			Lab File ID: 9LGA020-0		Analyzed: 12/13/06 00:59			
2,4,5,6-TCMX	1.00	64	25 - 140	6.852	6.848286	0.0037	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	63	25 - 140	6.569	6.564286	0.0047	+/-0.3	
DBC	1.00	67	30 - 135	14.105	14.10214	0.0029	+/-0.3	
DBC [2C]	1.00	71	30 - 135	13.913	13.90914	0.0039	+/-0.3	
JAX47-MW17S-120506 (B610567-04)			Lab File ID: 9LGA021-0		Analyzed: 12/13/06 01:25			
2,4,5,6-TCMX	1.00	54	25 - 140	6.85	6.848286	0.0017	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	51	25 - 140	6.568	6.564286	0.0037	+/-0.3	
DBC	1.00	63	30 - 135	14.103	14.10214	0.0009	+/-0.3	
DBC [2C]	1.00	65	30 - 135	13.911	13.90914	0.0019	+/-0.3	
JAX47-MW19S-120506 (B610567-05)			Lab File ID: 9LGA022-0		Analyzed: 12/13/06 01:51			
2,4,5,6-TCMX	1.00	56	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	57	25 - 140	6.568	6.564286	0.0037	+/-0.3	
DBC	1.00	64	30 - 135	14.104	14.10214	0.0019	+/-0.3	
DBC [2C]	1.00	67	30 - 135	13.912	13.90914	0.0029	+/-0.3	
JAX47-MW23S-120506 (B610567-06)			Lab File ID: 9LGA023-0		Analyzed: 12/13/06 02:17			
2,4,5,6-TCMX	1.00	56	25 - 140	6.852	6.848286	0.0037	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	59	25 - 140	6.569	6.564286	0.0047	+/-0.3	
DBC	1.00	64	30 - 135	14.106	14.10214	0.0039	+/-0.3	
DBC [2C]	1.00	66	30 - 135	13.913	13.90914	0.0039	+/-0.3	
Calibration Check (BA00090-CCV2)			Lab File ID: 9LGA024-0		Analyzed: 12/13/06 02:43			
2,4,5,6-TCMX	0.100	95	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	96	25 - 140	6.568	6.564286	0.0037	+/-0.3	
DBC	0.100	94	30 - 135	14.103	14.10214	0.0009	+/-0.3	
DBC [2C]	0.100	97	30 - 135	13.911	13.90914	0.0019	+/-0.3	
JAX47-MW24D-120506 (B610567-07)			Lab File ID: 9LGA032-0		Analyzed: 12/13/06 03:09			
2,4,5,6-TCMX	1.00	57	25 - 140	6.85	6.848286	0.0017	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	59	25 - 140	6.566	6.564286	0.0017	+/-0.3	
DBC	1.00	68	30 - 135	14.103	14.10214	0.0009	+/-0.3	
DBC [2C]	1.00	70	30 - 135	13.911	13.90914	0.0019	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00090	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW12S-120806 (B610655-01)			Lab File ID: 9LGA037-0		Analyzed: 12/13/06 05:19			
2,4,5,6-TCMX	1.00	109	25 - 140	6.849	6.848286	0.0007	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	108	25 - 140	6.567	6.564286	0.0027	+/-0.3	
DBC	1.00	149	30 - 135	14.103	14.10214	0.0009	+/-0.3	*
DBC [2C]	1.00	146	30 - 135	13.911	13.90914	0.0019	+/-0.3	*
JAX47-MW14S-120806 (B610655-02)			Lab File ID: 9LGA038-0		Analyzed: 12/13/06 05:45			
2,4,5,6-TCMX	1.00	141	25 - 140	6.848	6.848286	-0.0003	+/-0.3	*
2,4,5,6-TCMX [2C]	1.00	140	25 - 140	6.565	6.564286	0.0007	+/-0.3	
DBC	1.00	174	30 - 135	14.103	14.10214	0.0009	+/-0.3	*
DBC [2C]	1.00	174	30 - 135	13.91	13.90914	0.0009	+/-0.3	*
JAX47-MW25S-120806 (B610655-03)			Lab File ID: 9LGA039-0		Analyzed: 12/13/06 06:11			
2,4,5,6-TCMX	1.00	108	25 - 140	6.849	6.848286	0.0007	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	99	25 - 140	6.566	6.564286	0.0017	+/-0.3	
DBC	1.00	140	30 - 135	14.103	14.10214	0.0009	+/-0.3	*
DBC [2C]	1.00	135	30 - 135	13.911	13.90914	0.0019	+/-0.3	
JAX47-MW26S-120806 (B610655-04)			Lab File ID: 9LGA040-0		Analyzed: 12/13/06 06:37			
2,4,5,6-TCMX	1.00	112	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	112	25 - 140	6.567	6.564286	0.0027	+/-0.3	
DBC	1.00	126	30 - 135	14.103	14.10214	0.0009	+/-0.3	
DBC [2C]	1.00	128	30 - 135	13.911	13.90914	0.0019	+/-0.3	
Calibration Check (BA00090-CCV3)			Lab File ID: 9LGA041-0		Analyzed: 12/13/06 07:03			
2,4,5,6-TCMX	0.100	94	25 - 140	6.849	6.848286	0.0007	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	96	25 - 140	6.566	6.564286	0.0017	+/-0.3	
DBC	0.100	94	30 - 135	14.103	14.10214	0.0009	+/-0.3	
DBC [2C]	0.100	96	30 - 135	13.911	13.90914	0.0019	+/-0.3	
JAX47-MW28S-120806 (B610655-05)			Lab File ID: 9LGA042-0		Analyzed: 12/13/06 07:29			
2,4,5,6-TCMX	1.00	139	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	132	25 - 140	6.567	6.564286	0.0027	+/-0.3	
DBC	1.00	169	30 - 135	14.104	14.10214	0.0019	+/-0.3	*
DBC [2C]	1.00	168	30 - 135	13.912	13.90914	0.0029	+/-0.3	*
Calibration Check (BA00090-CCV4)			Lab File ID: 9LGA046-0		Analyzed: 12/13/06 09:13			
2,4,5,6-TCMX	0.100	96	25 - 140	6.85	6.848286	0.0017	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	96	25 - 140	6.566	6.564286	0.0017	+/-0.3	
DBC	0.100	95	30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	0.100	98	30 - 135	13.91	13.90914	0.0009	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00090	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Instrument Blank (BA00090-IBL2)			Lab File ID: 9LHA001-0		Analyzed: 12/13/06 12:27			
2,4,5,6-TCMX			25 - 140	6.848	6.848286	-0.0003	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC			30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]			30 - 135	13.909	13.90914	-0.0001	+/-0.3	
Calibration Check (BA00090-CCV5)			Lab File ID: 9LHA014-0		Analyzed: 12/13/06 18:15			
2,4,5,6-TCMX	0.100	97	25 - 140	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	98	25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC	0.100	95	30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	0.100	98	30 - 135	13.91	13.90914	0.0009	+/-0.3	
Calibration Check (BA00090-CCV6)			Lab File ID: 9LHA018-0		Analyzed: 12/13/06 19:59			
2,4,5,6-TCMX	0.100	88	25 - 140	6.848	6.848286	-0.0003	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	98	25 - 140	6.565	6.564286	0.0007	+/-0.3	
DBC	0.100	88	30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	0.100	98	30 - 135	13.909	13.90914	-0.0001	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00099	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Instrument Blank (BA00099-IBL1)			Lab File ID: 9LHA001-0		Analyzed: 12/13/06 12:27			
2,4,5,6-TCMX			25 - 140	6.848	6.848286	-0.0003	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC			30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]			30 - 135	13.909	13.90914	-0.0001	+/-0.3	
Calibration Check (BA00099-CCV1)			Lab File ID: 9LHA003-0		Analyzed: 12/13/06 13:19			
2,4,5,6-TCMX	0.100	95	25 - 140	6.845	6.848286	-0.0033	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	96	25 - 140	6.562	6.564286	-0.0023	+/-0.3	
DBC	0.100	94	30 - 135	14.099	14.10214	-0.0031	+/-0.3	
DBC [2C]	0.100	96	30 - 135	13.907	13.90914	-0.0021	+/-0.3	
Blank (6L08003-BLK1)			Lab File ID: 9LHA004-0		Analyzed: 12/13/06 13:45			
2,4,5,6-TCMX	1.00	70	25 - 140	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	71	25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC	1.00	68	30 - 135	14.101	14.10214	-0.0011	+/-0.3	
DBC [2C]	1.00	70	30 - 135	13.908	13.90914	-0.0011	+/-0.3	
LCS (6L08003-BS1)			Lab File ID: 9LHA005-0		Analyzed: 12/13/06 14:11			
2,4,5,6-TCMX	1.00	71	25 - 140	6.848	6.848286	-0.0003	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	73	25 - 140	6.565	6.564286	0.0007	+/-0.3	
DBC	1.00	70	30 - 135	14.101	14.10214	-0.0011	+/-0.3	
DBC [2C]	1.00	72	30 - 135	13.908	13.90914	-0.0011	+/-0.3	
Matrix Spike (6L08003-MS1)			Lab File ID: 9LHA006-0		Analyzed: 12/13/06 14:37			
2,4,5,6-TCMX	1.00	69	25 - 140	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	71	25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC	1.00	66	30 - 135	14.101	14.10214	-0.0011	+/-0.3	
DBC [2C]	1.00	69	30 - 135	13.908	13.90914	-0.0011	+/-0.3	
Matrix Spike Dup (6L08003-MSD1)			Lab File ID: 9LHA007-0		Analyzed: 12/13/06 15:13			
2,4,5,6-TCMX	1.00	66	25 - 140	6.851	6.848286	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	70	25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC	1.00	69	30 - 135	14.103	14.10214	0.0009	+/-0.3	
DBC [2C]	1.00	74	30 - 135	13.909	13.90914	-0.0001	+/-0.3	
JAX47-937MW4S-120106 (B610566-01)			Lab File ID: 9LHA010-0		Analyzed: 12/13/06 16:31			
2,4,5,6-TCMX	1.00	90	25 - 140	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	136	25 - 140	6.561	6.564286	-0.0033	+/-0.3	
DBC	1.00	89	30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	1.00	65	30 - 135	13.909	13.90914	-0.0001	+/-0.3	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00099	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0612008

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-937MW11D-120106 (B610566-02)			Lab File ID: 9LHA011-0		Analyzed: 12/13/06 16:57			
2,4,5,6-TCMX	1.00	64	25 - 140	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	65	25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC	1.00	72	30 - 135	14.101	14.10214	-0.0011	+/-0.3	
DBC [2C]	1.00	73	30 - 135	13.909	13.90914	-0.0001	+/-0.3	
JAX47-937MW11S-120106 (B610566-03)			Lab File ID: 9LHA012-0		Analyzed: 12/13/06 17:23			
2,4,5,6-TCMX	1.00	58	25 - 140	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	49	25 - 140	6.563	6.564286	-0.0013	+/-0.3	
DBC	1.00	69	30 - 135	14.101	14.10214	-0.0011	+/-0.3	
DBC [2C]	1.00	71	30 - 135	13.909	13.90914	-0.0001	+/-0.3	
JAX47-937MW14D-120106 (B610566-04)			Lab File ID: 9LHA013-0		Analyzed: 12/13/06 17:49			
2,4,5,6-TCMX	1.00	57	25 - 140	6.846	6.848286	-0.0023	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	56	25 - 140	6.563	6.564286	-0.0013	+/-0.3	
DBC	1.00	72	30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	1.00	71	30 - 135	13.91	13.90914	0.0009	+/-0.3	
Calibration Check (BA00099-CCV2)			Lab File ID: 9LHA014-0		Analyzed: 12/13/06 18:15			
2,4,5,6-TCMX	0.100	97	25 - 140	6.847	6.848286	-0.0013	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	98	25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC	0.100	95	30 - 135	14.102	14.10214	-0.0001	+/-0.3	
DBC [2C]	0.100	98	30 - 135	13.91	13.90914	0.0009	+/-0.3	
Instrument Blank (BA00099-IBL2)			Lab File ID: 9LIA001A-0		Analyzed: 12/14/06 16:58			
2,4,5,6-TCMX			25 - 140	6.848	6.848286	-0.0003	+/-0.3	
2,4,5,6-TCMX [2C]			25 - 140	6.564	6.564286	-0.0003	+/-0.3	
DBC			30 - 135	14.041	14.10214	-0.0611	+/-0.3	
DBC [2C]			30 - 135	13.909	13.90914	-0.0001	+/-0.3	
Calibration Check (BA00099-CCV3)			Lab File ID: 9LIA009-0		Analyzed: 12/14/06 20:25			
2,4,5,6-TCMX	0.100	94	25 - 140	6.837	6.848286	-0.0113	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	94	25 - 140	6.556	6.564286	-0.0083	+/-0.3	
DBC	0.100	91	30 - 135	14.092	14.10214	-0.0101	+/-0.3	
DBC [2C]	0.100	92	30 - 135	13.903	13.90914	-0.0061	+/-0.3	
Calibration Check (BA00099-CCV4)			Lab File ID: 9LIA013-0		Analyzed: 12/14/06 22:09			
2,4,5,6-TCMX	0.100	95	25 - 140	6.839	6.848286	-0.0093	+/-0.3	
2,4,5,6-TCMX [2C]	0.100	98	25 - 140	6.558	6.564286	-0.0063	+/-0.3	
DBC	0.100	92	30 - 135	14.093	14.10214	-0.0091	+/-0.3	
DBC [2C]	0.100	96	30 - 135	13.904	13.90914	-0.0051	+/-0.3	

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW4S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-01	File ID:	9LHA010-0
Sampled:	12/01/06 11:30	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 16:31
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.023	8.023286	0.000286		0.45	5.4
gamma-BHC	* 1	8.627	8.628	0.001		0.66	4.0
beta-BHC	1	8.806	8.816429	0.0104		3.9	345.1
delta-BHC	1	9.125	9.124286	0.000714		0.64	16.6
Aldrin	1	9.948	9.967572	0.0196		2.6	4039.1
Heptachlor epoxide	* 1	10.959	10.95643	0.00257		0.020	5310.0
4,4'-DDE	* 1	11.484	11.48286	0.00114		0.056	108.9
Dieldrin	* 1	11.918	11.91886	0.00086		0.19	65.6
Endrin	* 1	12.271	12.26457	0.00643		0.008	1762.5
Endosulfan sulfate	* 1	13.841	13.853	0.012		0.009	11.1
Endrin ketone	* 1	14.234	14.25229	0.0183		0.18	14.6
alpha-BHC	2	7.838	7.838	0		0.42	5.4
gamma-BHC	2	8.497	8.497428	0.000428		0.68	4.0
beta-BHC	* 2	8.683	8.687429	0.00443		0.89	345.1
delta-BHC	* 2	9.18	9.180286	0.000286		0.75	16.6
Aldrin	* 2	9.735	9.759429	0.0244		0.064	4039.1
Heptachlor epoxide	2	10.66	10.67843	0.0184		1.1	5310.0
4,4'-DDE	2	11.47	11.47543	0.00543		0.12	108.9
Dieldrin	2	11.674	11.67429	0.00029		0.31	65.6
Endrin	2	12.102	12.121	0.019		0.15	1762.5
Endosulfan sulfate	2	13.346	13.32643	0.0196		0.010	11.1
Endrin ketone	2	14.086	14.08214	0.00386		0.16	14.6
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.903	50.3
2,4,5,6-TCMX	2	6.561	6.564286	0.00329		1.36	50.3
DBC	* 1	14.102	14.10214	0.00014		0.886	35.7
DBC	2	13.909	13.90914	0.00014		0.653	35.7

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW4S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-01RE1	File ID:	9LIA010-0
Sampled:	12/01/06 11:30	Prepared:	12/08/06 11:09	Analyzed:	12/14/06 20:51
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.368	12.37786	0.00986		8.2	2.5
4,4'-DDD	2	12.319	12.32514	0.00614		8.5	2.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW11D-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-02	File ID:	9LHA011-0
Sampled:	12/01/06 16:15	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 16:57
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.78	12.78071	0.00071		0.003	0.0
Endosulfan sulfate	* 1	13.831	13.853	0.022		0.010	42.9
4,4'-DDT	2	12.772	12.77157	0.00043		0.003	0.0
Endosulfan sulfate	2	13.361	13.32643	0.0346		0.007	42.9
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.643	0.5
2,4,5,6-TCMX	2	6.564	6.564286	0.000286		0.646	0.5
DBC	* 1	14.101	14.10214	0.00114		0.722	1.5
DBC	2	13.909	13.90914	0.00014		0.733	1.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-03	File ID:	9LHA012-0
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 17:23
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.815	8.816429	0.00143		1.2	8.2
Aldrin	1	9.947	9.967572	0.0206		0.11	386.4
Chlordane-gamma	1	11.164	11.14771	0.0163		0.035	0.0
Dieldrin	* 1	11.918	11.91886	0.00086		0.033	39.4
Endrin	* 1	12.241	12.26457	0.0236		0.021	14.3
Endosulfan II	* 1	12.585	12.60057	0.0156		0.023	234.8
4,4'-DDT	* 1	12.777	12.78071	0.00371		0.007	228.6
Methoxychlor	1	13.447	13.48543	0.0384		1.1	18850.0
Endosulfan sulfate	* 1	13.868	13.853	0.015		0.007	457.1
beta-BHC	2	8.686	8.687429	0.00143		1.3	8.2
Aldrin	* 2	9.738	9.759429	0.0214		0.022	386.4
Dieldrin	2	11.672	11.67429	0.00229		0.046	39.4
Endrin	2	12.125	12.121	0.004		0.024	14.3
Endosulfan II	2	12.456	12.43571	0.0203		0.077	234.8
4,4'-DDT	2	12.758	12.77157	0.0136		0.023	228.6
Methoxychlor	* 2	13.756	13.77371	0.0177		0.006	18850.0
Endosulfan sulfate	2	13.337	13.32643	0.0106		0.039	457.1
2,4,5,6-TCMX	* 1	6.847	6.848286	0.00129		0.578	18.7
2,4,5,6-TCMX	2	6.563	6.564286	0.00129		0.487	18.7
DBC	* 1	14.101	14.10214	0.00114		0.686	3.1
DBC	2	13.909	13.90914	0.00014		0.707	3.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW11S-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-03RE1	File ID:	9LIA011-0
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:09	Analyzed:	12/14/06 21:17
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.013	8.023286	0.0103		9.3	3.3
gamma-BHC	* 1	8.618	8.628	0.01		15	3.7
delta-BHC	* 1	9.113	9.124286	0.0113		8.3	2.1
alpha-BHC	2	7.831	7.838	0.007		9.0	3.3
gamma-BHC	2	8.49	8.497428	0.00743		15	3.7
delta-BHC	2	9.172	9.180286	0.00829		8.2	2.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-937MW14D-120106

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610566-04	File ID:	9LHA013-0
Sampled:	12/01/06 15:00	Prepared:	12/08/06 11:09	Analyzed:	12/13/06 17:49
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L08003	Sequence:	BA00099		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.024	8.023286	0.000714		0.003	0.0
gamma-BHC	* 1	8.627	8.628	0.001		0.002	150.0
delta-BHC	* 1	9.137	9.124286	0.0127		0.026	107.7
Heptachlor	* 1	9.449	9.463429	0.0144		0.002	6800.0
Chlordane-alpha	* 1	11.324	11.34971	0.0257		0.002	200.0
4,4'-DDE	* 1	11.475	11.48286	0.00786		0.003	0.0
4,4'-DDT	1	12.779	12.78071	0.00171		0.003	300.0
Endrin ketone	* 1	14.239	14.25229	0.0133		0.019	26.7
gamma-BHC	2	8.49	8.497428	0.00743		0.005	150.0
delta-BHC	2	9.18	9.180286	0.000286		0.054	107.7
Heptachlor	2	9.225	9.237571	0.0126		0.14	6800.0
Chlordane-alpha	2	11.176	11.19143	0.0154		0.006	200.0
Endrin	2	12.139	12.121	0.018		0.004	0.0
4,4'-DDT	2	12.784	12.77157	0.0124		0.012	300.0
Endrin ketone	2	14.128	14.08214	0.0459		0.015	26.7
2,4,5,6-TCMX	* 1	6.846	6.848286	0.00229		0.570	2.3
2,4,5,6-TCMX	2	6.563	6.564286	0.00129		0.557	2.3
DBC	* 1	14.102	14.10214	0.00014		0.725	1.5
DBC	2	13.91	13.90914	0.00086		0.714	1.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW16D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-01	File ID:	9LGA018-0
Sampled:	12/05/06 12:46	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 00:07
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
delta-BHC	* 1	9.141	9.124286	0.0167		0.003	50.0
Heptachlor	* 1	9.472	9.463429	0.00857		0.007	42.9
delta-BHC	2	9.182	9.180286	0.00171		0.002	50.0
Heptachlor	2	9.229	9.237571	0.00857		0.010	42.9
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		0.564	3.3
2,4,5,6-TCMX	2	6.567	6.564286	0.00271		0.546	3.3
DBC	* 1	14.104	14.10214	0.00186		0.587	3.9
DBC	2	13.911	13.90914	0.00186		0.610	3.9

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW16S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-02	File ID:	9LGA019-0
Sampled:	12/05/06 13:38	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 00:33
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.786	12.78071	0.00529		0.002	0.0
4,4'-DDT	2	12.774	12.77157	0.00243		0.002	0.0
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		0.552	2.7
2,4,5,6-TCMX	2	6.568	6.564286	0.00371		0.567	2.7
DBC	* 1	14.105	14.10214	0.00286		0.579	4.8
DBC	2	13.912	13.90914	0.00286		0.607	4.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW17D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-03	File ID:	9LGA020-0
Sampled:	12/05/06 14:41	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 00:59
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.821	8.816429	0.00457		0.089	0.0
delta-BHC	1	9.144	9.124286	0.0197		0.031	0.0
Heptachlor	* 1	9.465	9.463429	0.00157		0.22	0.0
Chlordane-gamma	1	11.15	11.14771	0.00229		0.042	0.0
Chlordane-alpha	1	11.351	11.34971	0.00129		0.039	0.0
4,4'-DDD	1	12.382	12.37786	0.00414		0.094	0.0
Endosulfan sulfate	* 1	13.876	13.853	0.023		0.005	0.0
beta-BHC	2	8.636	8.687429	0.0514		0.089	0.0
delta-BHC	* 2	9.185	9.180286	0.00471		0.031	0.0
Heptachlor	2	9.231	9.237571	0.00657		0.22	0.0
Chlordane-gamma	* 2	10.977	10.97329	0.00371		0.042	0.0
Chlordane-alpha	* 2	11.195	11.19143	0.00357		0.039	0.0
4,4'-DDD	2	12.329	12.32514	0.00386		0.094	0.0
Endosulfan sulfate	2	13.281	13.32643	0.0454		0.005	0.0
2,4,5,6-TCMX	* 1	6.852	6.848286	0.00371		0.641	1.3
2,4,5,6-TCMX	2	6.569	6.564286	0.00471		0.633	1.3
DBC	* 1	14.105	14.10214	0.00286		0.674	5.0
DBC	2	13.913	13.90914	0.00386		0.708	5.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW17S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-04	File ID:	9LGA021-0
Sampled:	12/05/06 15:31	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 01:25
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.01	8.023286	0.0133		0.002	0.0
delta-BHC	* 1	9.142	9.124286	0.0177		0.032	14.3
Heptachlor	1	9.461	9.463429	0.00243		0.030	650.0
Aldrin	* 1	9.951	9.967572	0.0166		0.010	30.0
Chlordane-gamma	* 1	11.149	11.14771	0.00129		1.1	2.1
Chlordane-alpha	1	11.348	11.34971	0.00171		1.8	67.1
4,4'-DDE	1	11.488	11.48286	0.00514		0.036	63.9
Endosulfan I	* 1	11.559	11.55586	0.00314		0.077	22.2
Dieldrin	1	11.93	11.91886	0.0111		0.036	36.1
Endrin	* 1	12.27	12.26457	0.00543		0.005	920.0
Endosulfan II	* 1	12.585	12.60057	0.0156		0.037	94.7
4,4'-DDT	* 1	12.775	12.78071	0.00571		0.015	513.3
Endosulfan sulfate	1	13.826	13.853	0.027		0.017	183.3
Endrin ketone	* 1	14.245	14.25229	0.00729		0.009	0.0
delta-BHC	2	9.186	9.180286	0.00571		0.028	14.3
Heptachlor	* 2	9.249	9.237571	0.0114		0.004	650.0
Aldrin	2	9.767	9.759429	0.00757		0.013	30.0
Chlordane-gamma	2	10.975	10.97329	0.00171		1.1	2.1
Chlordane-alpha	* 2	11.194	11.19143	0.00257		1.1	67.1
4,4'-DDE	* 2	11.476	11.47543	0.00057		0.059	63.9
Endosulfan I	2	11.276	11.26443	0.0116		0.063	22.2
Dieldrin	* 2	11.672	11.67429	0.00229		0.049	36.1
Endrin	2	12.106	12.121	0.015		0.051	920.0
Endosulfan II	2	12.453	12.43571	0.0173		0.019	94.7
4,4'-DDT	2	12.785	12.77157	0.0134		0.092	513.3
Endosulfan sulfate	* 2	13.34	13.32643	0.0136		0.006	183.3
Endrin ketone	2	14.083	14.08214	0.00086		0.009	0.0
2,4,5,6-TCMX	* 1	6.85	6.848286	0.00171		0.538	6.1
2,4,5,6-TCMX	2	6.568	6.564286	0.00371		0.507	6.1
DBC	* 1	14.103	14.10214	0.00086		0.631	3.3
DBC	2	13.911	13.90914	0.00186		0.652	3.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW17S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-04RE1	File ID:	9LHA015-0
Sampled:	12/05/06 15:31	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 18:41
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDD	* 1	12.379	12.37786	0.00114		25	833.8
4,4'-DDD	2	12.326	12.32514	0.00086		2.7	833.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW19S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-05	File ID:	9LGA022-0
Sampled:	12/05/06 16:17	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 01:51
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.783	12.78071	0.00229		0.002	0.0
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		0.558	2.9
2,4,5,6-TCMX	2	6.568	6.564286	0.00371		0.574	2.9
DBC	* 1	14.104	14.10214	0.00186		0.638	4.5
DBC	2	13.912	13.90914	0.00286		0.667	4.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW23S-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-06	File ID:	9LGA023-0
Sampled:	12/05/06 10:46	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 02:17
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.787	12.78071	0.00629		0.002	0.0
4,4'-DDT	2	12.775	12.77157	0.00343		0.002	0.0
2,4,5,6-TCMX	* 1	6.852	6.848286	0.00371		0.565	4.1
2,4,5,6-TCMX	2	6.569	6.564286	0.00471		0.588	4.1
DBC	* 1	14.106	14.10214	0.00386		0.642	3.1
DBC	2	13.913	13.90914	0.00386		0.662	3.1

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW24D-120506

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610567-07	File ID:	9LGA032-0
Sampled:	12/05/06 11:39	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 03:09
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor	1	9.469	9.463429	0.00557		0.011	450.0
4,4'-DDT	* 1	12.784	12.78071	0.00329		0.002	0.0
Heptachlor	* 2	9.224	9.237571	0.0136		0.002	450.0
4,4'-DDT	2	12.774	12.77157	0.00243		0.002	0.0
2,4,5,6-TCMX	* 1	6.85	6.848286	0.00171		0.569	3.3
2,4,5,6-TCMX	2	6.566	6.564286	0.00171		0.588	3.3
DBC	* 1	14.103	14.10214	0.00086		0.675	4.4
DBC	2	13.911	13.90914	0.00186		0.705	4.4

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW12S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-01	File ID:	9LGA037-0
Sampled:	12/08/06 13:32	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 05:19
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND		COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC		1	8.025	8.023286	0.00171		1.1	864.0
gamma-BHC		1	8.629	8.628	0.001		0.11	4.5
beta-BHC		1	8.818	8.816429	0.00157		0.70	0.6
delta-BHC		1	9.126	9.124286	0.00171		0.015	33.3
Heptachlor epoxide	*	1	10.957	10.95643	0.00057		0.081	106.2
Chlordane-gamma	*	1	11.166	11.14771	0.0183		0.016	193.8
Chlordane-alpha	*	1	11.334	11.34971	0.0157		0.44	1900.0
4,4'-DDE		1	11.462	11.48286	0.0209		0.056	124.0
Dieldrin		1	11.92	11.91886	0.00114		0.15	16.3
Endosulfan II		1	12.589	12.60057	0.0116		0.032	59.4
4,4'-DDT	*	1	12.779	12.78071	0.00171		0.002	50.0
Endrin ketone	*	1	14.254	14.25229	0.00171		0.027	8.0
alpha-BHC	*	2	7.84	7.838	0.002		0.11	864.0
gamma-BHC	*	2	8.499	8.497428	0.00157		0.12	4.5
beta-BHC	*	2	8.689	8.687429	0.00157		0.70	0.6
delta-BHC	*	2	9.182	9.180286	0.00171		0.020	33.3
Heptachlor epoxide		2	10.68	10.67843	0.00157		0.17	106.2
Chlordane-gamma		2	10.968	10.97329	0.00529		0.047	193.8
Chlordane-alpha		2	11.181	11.19143	0.0104		0.022	1900.0
4,4'-DDE	*	2	11.48	11.47543	0.00457		0.025	124.0
Dieldrin	*	2	11.675	11.67429	0.00071		0.18	16.3
Endosulfan II	*	2	12.456	12.43571	0.0203		0.051	59.4
4,4'-DDT		2	12.769	12.77157	0.00257		0.003	50.0
Endrin ketone		2	14.119	14.08214	0.0369		0.025	8.0
2,4,5,6-TCMX	*	1	6.849	6.848286	0.000714		1.09	0.8
2,4,5,6-TCMX		2	6.567	6.564286	0.00271		1.08	0.8
DBC	*	1	14.103	14.10214	0.00086		1.49	2.5
DBC		2	13.911	13.90914	0.00186		1.46	2.5

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW14S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-02	File ID:	9LGA038-0
Sampled:	12/08/06 09:54	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 05:45
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m,32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Heptachlor epoxide	1	10.956	10.95643	0.00043		0.62	12.1
Chlordane-gamma	* 1	11.147	11.14771	0.00071		0.017	6.3
Chlordane-alpha	1	11.334	11.34971	0.0157		0.055	323.1
Dieldrin	* 1	11.918	11.91886	0.00086		0.003	33.3
4,4'-DDT	* 1	12.783	12.78071	0.00229		0.002	200.0
Endrin ketone	* 1	14.252	14.25229	0.00029		0.010	11.1
Heptachlor epoxide	* 2	10.678	10.67843	0.00043		0.70	12.1
Chlordane-gamma	2	10.973	10.97329	0.00029		0.016	6.3
Chlordane-alpha	* 2	11.19	11.19143	0.00143		0.013	323.1
Dieldrin	2	11.672	11.67429	0.00229		0.004	33.3
4,4'-DDT	2	12.788	12.77157	0.0164		0.006	200.0
2,4,5,6-TCMX	* 1	6.848	6.848286	0.000286		1.41	0.6
2,4,5,6-TCMX	2	6.565	6.564286	0.000714		1.40	0.6
DBC	* 1	14.103	14.10214	0.00086		1.74	0.0
DBC	2	13.91	13.90914	0.00086		1.74	0.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW25S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03	File ID:	9LGA039-0
Sampled:	12/08/06 12:36	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 06:11
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
beta-BHC	* 1	8.818	8.816429	0.00157		1.8	2.2
Heptachlor epoxide	* 1	10.957	10.95643	0.00057		0.023	217.4
Chlordane-gamma	* 1	11.164	11.14771	0.0163		0.036	100.0
Chlordane-alpha	1	11.333	11.34971	0.0167		0.032	357.1
Endosulfan I	* 1	11.544	11.55586	0.0119		0.012	250.0
Endrin	* 1	12.246	12.26457	0.0186		0.003	0.0
4,4'-DDT	* 1	12.777	12.78071	0.00371		0.003	66.7
Methoxychlor	1	13.498	13.48543	0.0126		0.014	0.0
beta-BHC	2	8.689	8.687429	0.00157		1.7	2.2
Heptachlor epoxide	2	10.656	10.67843	0.0224		0.073	217.4
Chlordane-gamma	2	10.965	10.97329	0.00829		0.018	100.0
Chlordane-alpha	* 2	11.192	11.19143	0.00057		0.007	357.1
Endosulfan I	2	11.29	11.26443	0.0256		0.042	250.0
4,4'-DDT	2	12.764	12.77157	0.00757		0.005	66.7
2,4,5,6-TCMX	* 1	6.849	6.848286	0.000714		1.08	9.0
2,4,5,6-TCMX	2	6.566	6.564286	0.00171		0.986	9.0
DBC	* 1	14.103	14.10214	0.00086		1.40	3.3
DBC	2	13.911	13.90914	0.00186		1.35	3.3

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW25S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-03RE1	File ID:	9LHA016-0
Sampled:	12/08/06 12:36	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 19:07
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
alpha-BHC	* 1	8.022	8.023286	0.00129		3.4	4.1
gamma-BHC	* 1	8.626	8.628	0.002		4.4	7.6
delta-BHC	* 1	9.123	9.124286	0.00129		3.6	7.8
alpha-BHC	2	7.837	7.838	0.001		3.6	4.1
gamma-BHC	2	8.497	8.497428	0.000428		4.7	7.6
delta-BHC	2	9.18	9.180286	0.000286		3.9	7.8

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW26S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-04	File ID:	9LGA040-0
Sampled:	12/08/06 11:48	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 06:37
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
4,4'-DDT	* 1	12.783	12.78071	0.00229		0.010	10.0
4,4'-DDT	2	12.774	12.77157	0.00243		0.011	10.0
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		1.12	0.4
2,4,5,6-TCMX	2	6.567	6.564286	0.00271		1.12	0.4
DBC	* 1	14.103	14.10214	0.00086		1.26	1.0
DBC	2	13.911	13.90914	0.00186		1.28	1.0

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW28S-120806

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B610655-05	File ID:	9LGA042-0
Sampled:	12/08/06 10:44	Prepared:	12/11/06 15:02	Analyzed:	12/13/06 07:29
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	6L11022	Sequence:	BA00090		
GC Column(1):	STX-CLpesticide1, Length: 30m.32id,			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	%D
Dieldrin	* 1	11.919	11.91886	0.00014		0.003	33.3
Dieldrin	2	11.676	11.67429	0.00171		0.004	33.3
4,4'-DDT	2	12.774	12.77157	0.00243		0.002	0.0
2,4,5,6-TCMX	* 1	6.851	6.848286	0.00271		1.39	5.1
2,4,5,6-TCMX	2	6.567	6.564286	0.00271		1.32	5.1
DBC	* 1	14.104	14.10214	0.00186		1.69	0.2
DBC	2	13.912	13.90914	0.00286		1.68	0.2

* Column used for quantitation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **FEBRUARY 26, 2007**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC / DISSOLVED ARSENIC**
NAS JACKSONVILLE – CTO 047
SAMPLE DELIVERY GROUP (SDG) – BR006-014

SAMPLES: 16/Aqueous/

JAX47-MW11D-120106	JAX47-MW11S-120106
JAX47-MW14D-120106	JAX47-937-MW4S-120106
JAX47-MW12S-120806	JAX47-MW14S-120806
JAX47-MW16D-120506	JAX47-MW16S-120506
JAX47-MW17D-120506	JAX47-MW17S-120506
JAX47-MW19S-120506	JAX47-MW23S-120506
JAX47-MW24D-120506	JAX47-MW25S-120806
JAX47-MW26S-120806	JAX47-MW28S-120806

Overview

The sample set for NAS Jacksonville, CTO 047, SDG BR006-014, consists of sixteen (16) aqueous environmental samples. No field duplicate pairs were included in this SDG.

All samples were analyzed for arsenic. Samples JAX47-MW14S-120806, JAX47-MW28S-120806 and JAX47-937MW4S-120106 were also analyzed for dissolved arsenic. The samples were collected by Tetra Tech NUS, Inc. on December 1, 5 and 8, 2006 and analyzed by Environmental Conservation Laboratories, Inc. Arsenic analyses were conducted using EPA methods 3010A and 6010 methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Notes

It was noted in the case narrative that for sample JAX47-937MW4S-120106 the dissolved arsenic result was higher than the total arsenic result. The laboratory re-prepared and reanalyzed the sample producing the same results. The original results are reported within this SDG.

The laboratory included the characters "937" in three samples that did not agree with the Chain of Custody (COC) record. The sample ids were changed by the data reviewer on the affected Form Is and the database was amended. The samples were summarized in the laboratory case narrative.

Executive Summary

Laboratory Performance: Several samples were misnamed by the laboratory.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", October 2004.

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Chemist / Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Appendix A
Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-937MW4S-120106-RE
samp_date	12/1/2006
lab_id	B610566-01RE1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	5880		

nsample	JAX47-MW11D-120106
samp_date	12/1/2006
lab_id	B610566-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

nsample	JAX47-MW11S-120106-RE1
samp_date	12/1/2006
lab_id	B610566-03RE1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	5		

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW12S-120806	nsample	JAX47-MW14D-120106	nsample	JAX47-MW14S-120806
samp_date	12/8/2006	samp_date	12/1/2006	samp_date	12/8/2006
lab_id	B610655-01	lab_id	B610566-04	lab_id	B610655-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW16D-120506	nsample	JAX47-MW16S-120506	nsample	JAX47-MW17D-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-01	lab_id	B610567-02	lab_id	B610567-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	9.7		

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.5		

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.6		

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW17S-120506	nsample	JAX47-MW19S-120506	nsample	JAX47-MW23S-120506
samp_date	12/5/2006	samp_date	12/5/2006	samp_date	12/5/2006
lab_id	B610567-04	lab_id	B610567-05	lab_id	B610567-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW24D-120506	nsample	JAX47-MW25S-120806	nsample	JAX47-MW26S-120806
samp_date	12/5/2006	samp_date	12/8/2006	samp_date	12/8/2006
lab_id	B610567-07	lab_id	B610655-03	lab_id	B610655-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4.1		

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW28S-120806
samp_date	12/8/2006
lab_id	B610655-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

PROJ_NO: 00497

SDG: BR006-014 MEDIA: WATER DATA FRACTION: MF

nsample	JAX47-937MW4S-120106-RE	nsample	JAX47-MW14S-120806	nsample	JAX47-MW28S-120806
samp_date	12/1/2006	samp_date	12/8/2006	samp_date	12/8/2006
lab_id	B610566-01RE1	lab_id	B610655-02	lab_id	B610655-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	8870		

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Appendix B
Results as reported by the Laboratory

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-937MW4S-120106

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water *Laboratory ID:* B610566-01RE1 *File ID:* 122806b-097

Sampled: 12/01/06 11:30 Prepared: 12/11/06 11:02 Analyzed: 12/29/06 01:17

Solids: 0.00 Preparation: EPA 3005A Initial/Final: 50 mL / 50 mL

Batch: 6L11015 Sequence: BA00122 Calibration: 0612021 Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5880	1		EPA 6010B

2-2787 JAD

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-937MW11D-120106

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water *Laboratory ID:* B610566-02RE2 File ID: 010507a-014

Sampled: 12/01/06 16:15 Prepared: 12/11/06 11:02 Analyzed: 01/05/07 12:00

Solids: 0.00 Preparation: EPA 3005A Initial/Final: 50 mL / 50 mL

Batch: 6L11015 Sequence: BA00136 Calibration: 0701007 Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-~~937~~MW11S-120106

2-1707 JA1

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water *Laboratory ID:* B610566-03RE1 File ID: 010507a-015

Sampled: 12/01/06 15:00 Prepared: 12/11/06 11:02 Analyzed: 01/05/07 12:07

Solids: 0.00 Preparation: EPA 3005A Initial/Final: 50 mL / 50 mL

Batch: 6L11015 Sequence: BA00136 Calibration: 0701007 Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.0	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW12S-120806

Laboratory: ENCO Jacksonville — SDG: BR006-014

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: Ground Water — *Laboratory ID:* B610655-01 — *File ID:* 122006a-053

Sampled: 12/08/06 13:32 — Prepared: 12/13/06 07:03 — Analyzed: 12/20/06 15:09

Solids: 0.00 — Preparation: EPA 3005A — Initial/Final: 50 mL / 50 mL

Batch: 6L13002 — Sequence: BA00135 — Calibration: 0701002 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-93/MW14D-120106

2-17-07 JAV

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water *Laboratory ID:* B610566-04RE1 *File ID:* 010507a-016

Sampled: 12/01/06 15:00 Prepared: 12/11/06 11:02 Analyzed: 01/05/07 12:13

Solids: 0.00 Preparation: EPA 3005A Initial/Final: 50 mL / 50 mL

Batch: 6L11015 Sequence: BA00136 Calibration: 0701007 Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW14S-120806

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: *Ground Water* *Laboratory ID:* *B610655-02* *File ID:* *122006a-054*
Sampled: 12/08/06 09:54 Prepared: 12/13/06 07:03 Analyzed: 12/20/06 15:16
Solids: 0.00 Preparation: EPA 3005A Initial/Final: 50 mL / 50 mL
Batch: 6L13002 Sequence: BA00135 Calibration: 0701002 Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW16D-120506

Laboratory: ENCO Jacksonville — SDG: BR006-014

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: Ground Water — *Laboratory ID:* B610567-01 — File ID: 122006a-017

Sampled: 12/05/06 12:46 — Prepared: 12/13/06 06:56 — Analyzed: 12/20/06 11:05

Solids: 0.00 — Preparation: EPA 3005A — Initial/Final: 50 mL / 50 mL

Batch: 6L13001 — Sequence: BA00108 — Calibration: 0612013 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	9.7	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW16S-120506

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610567-02
File ID: 122006a-018
Sampled: 12/05/06 13:38
Prepared: 12/13/06 06:56
Analyzed: 12/20/06 11:12
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L13001
Sequence: BA00108
Calibration: 0612013
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.5	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW17D-120506

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B610567-03
File ID: 122006a-019
Sampled: 12/05/06 14:41
Prepared: 12/13/06 06:56
Analyzed: 12/20/06 11:18
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 6L13001
Sequence: BA00108
Calibration: 0612013
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.6	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW17S-120506

Laboratory: ENCO Jacksonville — SDG: BR006-014

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: Ground Water — *Laboratory ID:* B610567-04 — File ID: 122006a-023

Sampled: 12/05/06 15:31 — Prepared: 12/13/06 06:56 — Analyzed: 12/20/06 11:46

Solids: 0.00 — Preparation: EPA 3005A — Initial/Final: 50 mL / 50 mL

Batch: 6L13001 — Sequence: BA00108 — Calibration: 0612013 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW19S-120506

Laboratory: ENCO Jacksonville — SDG: BR006-014

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: Ground Water — *Laboratory ID:* B610567-05 — File ID: 122006a-024

Sampled: 12/05/06 16:17 — Prepared: 12/13/06 06:56 — Analyzed: 12/20/06 11:54

Solids: 0.00 — Preparation: EPA 3005A — Initial/Final: 50 mL / 50 mL

Batch: 6L13001 — Sequence: BA00108 — Calibration: 0612013 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW23S-120506

Laboratory: ENCO Jacksonville — SDG: BR006-014

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: Ground Water — *Laboratory ID:* B610567-06 — *File ID:* 122006a-025

Sampled: 12/05/06 10:46 — Prepared: 12/13/06 06:56 — Analyzed: 12/20/06 12:01

Solids: 0.00 — Preparation: EPA 3005A — Initial/Final: 50 mL / 50 mL

Batch: 6L13001 — Sequence: BA00108 — Calibration: 0612013 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW24D-120506

Laboratory: ENCO Jacksonville | SDG: BR006-014

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B610567-07 | File ID: 122006a-026

Sampled: 12/05/06 11:39 | Prepared: 12/13/06 06:56 | Analyzed: 12/20/06 12:07

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 6L13001 | Sequence: BA00108 | Calibration: 0612013 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW25S-120806

Laboratory: ENCO Jacksonville — SDG: BR006-014

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: Ground Water — *Laboratory ID:* B610655-03 — *File ID:* 122006a-056

Sampled: 12/08/06 12:36 — Prepared: 12/13/06 07:03 — Analyzed: 12/20/06 15:30

Solids: 0.00 — Preparation: EPA 3005A — Initial/Final: 50 mL / 50 mL

Batch: 6L13002 — Sequence: BA00135 — Calibration: 0701002 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	4.1	1	J	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW26S-120806

Laboratory: ENCO Jacksonville — SDG: BR006-014

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: Ground Water — *Laboratory ID:* B610655-04 — *File ID:* 122006a-057

Sampled: 12/08/06 11:48 — Prepared: 12/13/06 07:03 — Analyzed: 12/20/06 15:37

Solids: 0.00 — Preparation: EPA 3005A — Initial/Final: 50 mL / 50 mL

Batch: 6L13002 — Sequence: BA00135 — Calibration: 0701002 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW28S-120806

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water *Laboratory ID:* B610655-05 *File ID:* 122006a-058

Sampled: 12/08/06 10:44 Prepared: 12/13/06 07:03 Analyzed: 12/20/06 15:43

Solids: 0.00 Preparation: EPA 3005A Initial/Final: 50 mL / 50 mL

Batch: 6L13002 Sequence: BA00135 Calibration: 0701002 Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

JAX47-937MW4S-120106

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water *Laboratory ID:* B610566-01RE1 File ID: 122806b-101

Sampled: 12/01/06 11:30 Prepared: 12/11/06 11:02 Analyzed: 12/29/06 01:45

Solids: 0.00 Preparation: EPA 3005A Initial/Final: 50 mL / 50 mL

Batch: 6L11015 Sequence: BA00122 Calibration: 0612021 Instrument: JMICP1

CAS NO.	Analyte	**Concentration** (ug/L)	**Dilution** Factor	Q	Method
7440-38-2	Arsenic (dissolved)	8870	1		EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW14S-120806

Laboratory: ENCO Jacksonville — SDG: BR006-014

Client: Tetra Tech NUS (BR006) — Project: NAS Jacksonville, CTO 047

Matrix: Ground Water — *Laboratory ID:* B610655-02 — *File ID:* 122006a-055

Sampled: 12/08/06 09:54 — Prepared: 12/13/06 07:03 — Analyzed: 12/20/06 15:23

Solids: 0.00 — Preparation: EPA 3005A — Initial/Final: 50 mL / 50 mL

Batch: 6L13002 — Sequence: BA00135 — Calibration: 0701002 — Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	10	1	U	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW28S-120806

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: *Ground Water* *Laboratory ID:* *B610655-05* *File ID:* *122006a-062*
Sampled: 12/08/06 10:44 Prepared: 12/13/06 07:03 Analyzed: 12/20/06 16:10
Solids: 0.00 Preparation: EPA 3005A Initial/Final: 50 mL / 50 mL
Batch: 6L13002 Sequence: BA00135 Calibration: 0701002 Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	10	1	U	EPA 6010B

Appendix C
Support Documentation

Volatiles

Method: The samples were analyzed by USEPA Method 8260B (VOA vial field sampling followed by purge and trap then capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The Matrix Spike and Matrix Spike Duplicate had several compounds that were outside the DoD QSM control limits. Data was accepted based on an acceptable Laboratory Control Standard and precision data.
- Laboratory Control Standard was outside the DoD QSM control limits for Bromodichloromethane but was within the DoD QSM marginal exceedance limits.
- Several compounds did not meet the specified control limits for the Continuing Calibration Check Standard. Data was accepted on criteria that all CCC and SPCC compounds passed.

Metals

Method: The samples were extracted by USEPA Method 3050 and analyzed by EPA Method 6010 for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- The dissolved Arsenic result for JAX47-937MW4S-120106 was higher than the total Arsenic result. Sample was re-prepped and re-analyzed producing similar results. Both sets of data were reported.

CASE NARRATIVE

Tetra Tech NUS, Inc/NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-014

Is 937 correct?

COCs do NOT contain 937 for the circled samples.

Lab Sample ID	Client Sample ID
B610566-01	JAX47-937MW4S-120106
B610566-02	JAX47-937MW11D-120106
B610566-03	JAX47-937MW11S-120106
B610566-04	JAX47-937MW14D-120106
B610567-01	JAX47-MW16D-120506
B610567-02	JAX47-MW16S-120506
B610567-03	JAX47-MW17D-120506
B610567-04	JAX47-MW17S-120506
B610567-05	JAX47-MW19S-120506
B610567-06	JAX47-MW23S-120506
B610567-07	JAX47-MW24D-120506
B610655-01	JAX47-MW12S-120806
B610655-02	JAX47-MW14S-120806
B610655-03	JAX47-MW25S-120806
B610655-04	JAX47-MW26S-120806
B610655-05	JAX47-MW28S-120806

← COC DOES contain 937 for MW4S

B6105666

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1262006-3

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	JACKSONVILLE NAS	Mark Peterson	Hand Deliver	Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	Standard	Charles Metz		Lab Contact 904-296-3007

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
12/01/2006	JAX47-937MW4S-120106	11:30	SW-846 8081A and 8270C Extended	JAX-47-937MW4S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/01/2006	JAX47-937MW4S-120106	11:30	SW-846 6010B or 6020 (filtered)	JAX-47-937MW4S	GW	Arsenic (filtered)	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-937MW4S-120106	11:30	SW-846 6010B or 6020	JAX-47-937MW4S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-937MW4S-120106	11:30	SW-846 8260B Extended	JAX-47-937MW4S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW11D-120106	16:15	SW-846 8081A and 8270C Extended	JAX-47-MW11D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
12/01/2006	JAX47-MW11D-120106	16:15	SW-846 6010B or 6020	JAX-47-MW11D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW11D-120106	16:15	SW-846 8260B Extended	JAX-47-MW11D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW11S-120106	15:00	SW-846 6010B or 6020	JAX-47-MW11S	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW11S-120106	15:00	SW-846 8081A and 8270C Extended	JAX-47-MW11S	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
12/01/2006	JAX47-MW11S-120106	15:00	SW-846 8260B Extended	JAX-47-MW11S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/01/2006	JAX47-MW14D-120106	10:15	SW-846 6010B or 6020	JAX-47-MW14D	GW	Arsenic	4° C/HNO3	1	Plastic	250ml PE	
12/01/2006	JAX47-MW14D-120106	10:15	SW-846 8081A and 8270C Extended	JAX-47-MW14D	GW	TCL Pesticides and SVOCs	None	2	Glass	1L Amber	
12/01/2006	JAX47-MW14D-120106	10:15	SW-846 8260B Extended	JAX-47-MW14D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	

	Date:	Time:	Received By:	Date:	Time:
1. Relinquished By: Charles Metz	12/06/2006	08:16 10:50	Hand Deliver	12/06/2006	09:15 1050
2. Relinquished By:	Date:	Time:	Received By: GBaer	Date: 12/5/06	Time: 1050
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

B6106655

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1282006-5

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	JACKSONVILLE NAS	Mark Peterson	Hand Deliver	Environmental Conservation Laboratories 4810 Executive Park Court, Suite 211 Jacksonville, FL 32216
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	Standard	Charles Metz		Lab Contact 904-296-3007

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
12/08/2006	JAX47-MW12S-120806	13:32	SW-846 8081A and 8270C Extended	JAX-47-MW12S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW12S-120806	13:32	SW-846 6010B or 6020	JAX-47-MW12S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW12S-120806	13:32	SW-846 8260B Extended	JAX-47-MW12S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW14S-120806	09:54	SW-846 6010B or 6020	JAX-47-MW14S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW14S-120806	09:54	SW-846 8260B Extended	JAX-47-MW14S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW14S-120806	09:54	SW-846 6010B or 6020 (filtered)	JAX-47-MW14S	GW	Arsenic (filtered)	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW14S-120806	09:54	SW-846 8081A and 8270C Extended	JAX-47-MW14S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW25S-120806	12:36	SW-846 6010B or 6020	JAX-47-MW25S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW25S-120806	12:36	SW-846 8081A and 8270C Extended	JAX-47-MW25S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW25S-120806	12:36	SW-846 8260B Extended	JAX-47-MW25S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW26S-120806	11:48	SW-846 6010B or 6020	JAX-47-MW26S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW26S-120806	11:48	SW-846 8081A and 8270C Extended	JAX-47-MW26S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW26S-120806	11:48	SW-846 8260B Extended	JAX-47-MW26S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW28S-120806	10:44	SW-846 8081A and 8270C Extended	JAX-47-MW28S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/08/2006	JAX47-MW28S-120806	10:44	SW-846 8260B Extended	JAX-47-MW28S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/08/2006	JAX47-MW28S-120806	10:44	SW-846 6010B or 6020	JAX-47-MW28S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/08/2006	JAX47-MW28S-120806	10:44	SW-846 6010B or 6020 (filtered)	JAX-47-MW28S	GW	Arsenic (filtered)	4°C/HNO3	1	Plastic	250ml PE	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Terry Cottenoir	12/08/2006	15:45	Hand Deliver	12/08/2006	15:45
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
				12/8/06	15:50

B6105567

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: 112G00497-1262006-4

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G00497	**JACKSONVILLE NAS**	**Mark Peterson**	**Hand Deliver**	**Environmental Conservation Laboratories** **4810 Executive Park Court, Suite 211** **Jacksonville, FL 32216**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0047	**Standard**	**Charles Metz**		**Lab Contact** **904-296-3007**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
12/05/2006	JAX47-MW16D-120506	12:46	**SW-846 8260B Extended**	JAX-47-MW16D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW16D-120506	12:46	**SW-846 8081A and 8270C Extended**	JAX-47-MW16D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW16D-120506	12:46	**SW-846 6010B or 6020**	JAX-47-MW16D	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW16S-120506	13:38	**SW-846 6010B or 6020**	JAX-47-MW16S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW16S-120506	13:38	**SW-846 8260B Extended**	JAX-47-MW16S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW16S-120506	13:38	**SW-846 8081A and 8270C Extended**	JAX-47-MW16S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW17D-120506	14:41	**SW-846 8081A and 8270C Extended**	JAX-47-MW17D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW17D-120506	14:41	**SW-846 8260B Extended**	JAX-47-MW17D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW17D-120506	14:41	**SW-846 6010B or 6020**	JAX-47-MW17D	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW17S-120506	15:31	**SW-846 6010B or 6020**	JAX-47-MW17S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW17S-120506	15:31	**SW-846 8260B Extended**	JAX-47-MW17S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW17S-120506	15:31	**SW-846 8081A and 8270C Extended**	JAX-47-MW17S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW19S-120506	16:17	**SW-846 8260B Extended**	JAX-47-MW19S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW19S-120506	16:17	**SW-846 8081A and 8270C Extended**	JAX-47-MW19S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW19S-120506	16:17	**SW-846 6010B or 6020**	JAX-47-MW19S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW23S-120506	10:46	**SW-846 8260B Extended**	JAX-47-MW23S	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	
12/05/2006	JAX47-MW23S-120506	10:46	**SW-846 8081A and 8270C Extended**	JAX-47-MW23S	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW23S-120506	10:46	**SW-846 6010B or 6020**	JAX-47-MW23S	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW24D-120506	11:39	**SW-846 6010B or 6020**	JAX-47-MW24D	GW	Arsenic	4°C/HNO3	1	Plastic	250ml PE	
12/05/2006	JAX47-MW24D-120506	11:39	**SW-846 8081A and 8270C Extended**	JAX-47-MW24D	GW	TCL Pesticides and SVOCs	4°C	2	Glass	1L Amber	
12/05/2006	JAX47-MW24D-120506	11:39	**SW-846 8260B Extended**	JAX-47-MW24D	GW	TCL VOCs	4°C/HCL	3	Glass	40ml vials	

1. Relinquished By: Charles Metz	Date: 12/06/2006	Time: ~~14:00~~ 1422	Received By: Hand Deliver	Date: 12/06/2006	Time: ~~14:00~~ 14:22
2. Relinquished By:	Date:	Time:	Received By: G Baun	Date: 12/6/06	Time: 1422
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: *Water* ***Instrument:***

Analyte	MDL	MRL	Units
Arsenic	4	10.0	ug/L

Se 196.026	-3.6	0.0003	0.00247	mg/L	0.0003	0.00247	mg/L	782.83 %
Sn 189.933	3.1	0.0005	0.00066	mg/L	0.0005	0.00066	mg/L	145.90 %
Sr 421.539R	27,583.6	0.0316	0.00089	mg/L	0.0316	0.00089	mg/L	2.81 %
Ti 337.280	9,932.5	0.0123	0.00038	mg/L	0.0123	0.00038	mg/L	3.07 %
Tl 190.800	-2.5	-0.0004	0.00207	mg/L	-0.0004	0.00207	mg/L	481.99 %
V 292.402	1,867.1	0.0059	0.00027	mg/L	0.0059	0.00027	mg/L	4.59 %
Zn 206.191	658.6	0.0093	0.00014	mg/L	0.0093	0.00014	mg/L	1.56 %

Mean Data

ID: b610567-03 **Seq. No.:** 19 **A/S Pos:** 33

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2006/12/20 11:16:46

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	247,270.2	102	0.8	%			%	0.80 %
Y361.105A	*1,530,410.8*	*102*	*0.3*	%			%	*0.29* %
Ag 338.289	-21.1	-0.0001	0.00019	mg/L	-0.0001	0.00019	mg/L	216.15 %
Ag 328.068	-189.5	-0.0005	0.00012	mg/L	-0.0005	0.00012	mg/L	23.04 %
Al 308.215	322.3	0.112	0.0029	mg/L	0.112	0.0029	mg/L	2.63 %
As 188.979	19.3	0.0056	0.00098	mg/L	0.0056	0.00098	mg/L	17.48 %
Ba 233.527	16,732.0	0.0763	0.00130	mg/L	0.0763	0.00130	mg/L	1.70 %
Be 313.107	1,451.9	0.0002	0.00005	mg/L	0.0002	0.00005	mg/L	24.20 %
B 208.959	112.6	0.0048	0.00039	mg/L	0.0048	0.00039	mg/L	7.96 %
Ca 317.933	6,688,849.2	23.69	0.023	mg/L	23.69	0.023	mg/L	0.10 %
Ca Radial	726,325.6	23.69	0.911	mg/L	23.69	0.911	mg/L	3.84 %
Cd 226.502	182.3	0.0001	0.00004	mg/L	0.0001	0.00004	mg/L	72.76 %
Co 228.616	5.5	0.0001	0.00023	mg/L	0.0001	0.00023	mg/L	279.15 %
Cr 267.716	23.3	0.0000	0.00019	mg/L	0.0000	0.00019	mg/L	675.76 %

SAMPLE TAX47-MW17D-120506

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:** JMICP1

Analyte	MDL	MRL	Units
Arsenic (dissolved)	4	10	ug/L

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L11015 Batch Matrix: Water Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L11015-BLK1	121306a-010	12/11/06 11:02	
LCS	6L11015-BS1	121306a-011	12/11/06 11:02	
JAX47-937MW11D-120106	6L11015-MS1	121306a-012	12/11/06 11:02	
JAX47-937MW11D-120106	6L11015-MSD1	121306a-013	12/11/06 11:02	
JAX47-937MW4S-120106	B610566-01	121306a-015	12/11/06 11:02	Filtered
JAX47-937MW4S-120106	B610566-01RE1	122806b-101	12/11/06 11:02	Filtered

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L13002 Batch Matrix: Water Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L13002-BLK1	122006a-050	12/13/06 07:03	
LCS	6L13002-BS1	122006a-049	12/13/06 07:03	
JAX47-MW12S-120806	6L13002-MS1	122006a-051	12/13/06 07:03	
JAX47-MW12S-120806	6L13002-MSD1	122006a-052	12/13/06 07:03	
JAX47-MW14S-120806	B610655-02	122006a-055	12/13/06 07:03	Filtered
JAX47-MW28S-120806	B610655-05	122006a-062	12/13/06 07:03	Filtered

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-014

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 6L29003 Batch Matrix: Water Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L29003-BLK1	010307-010	12/29/06 08:44	
LCS	6L29003-BS1	010307-011	12/29/06 08:44	
B8	6L29003-MS1	010307-012	12/29/06 08:44	
B8	6L29003-MSD1	010307-013	12/29/06 08:44	
JAX47-937MW4S-120106	B610566-01RE2	010307-015	12/11/06 11:02	Filtered

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00122	Instrument:	JMICP1
Matrix:	Water	Calibration:	0612021

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00122-ICB1	122806b-001	12/28/06 13:58
Cal Standard	BA00122-CAL1	122806b-002	12/28/06 14:05
Instrument Blank	BA00122-IBL1	122806b-003	12/28/06 14:15
Low Cal Check	BA00122-LCV1	122806b-004	12/28/06 14:23
Secondary Cal Check	BA00122-SCV1	122806b-005	12/28/06 14:29
Initial Cal Check	BA00122-ICV1	122806b-006	12/28/06 14:36
Interference Check A	BA00122-IFA1	122806b-008	12/28/06 14:50
Calibration Blank	BA00122-CCB1	122806b-086	12/29/06 00:03
Calibration Check	BA00122-CCV1	122806b-087	12/29/06 00:10
Calibration Blank	BA00122-CCB2	122806b-099	12/29/06 01:31
Calibration Check	BA00122-CCV2	122806b-100	12/29/06 01:39
JAX47-937MW4S-120106	B610566-01RE1	122806b-101	12/29/06 01:45
Calibration Blank	BA00122-CCB3	122806b-112	12/29/06 03:04
Calibration Check	BA00122-CCV3	122806b-113	12/29/06 03:11

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00134	Instrument:	JMICP1
Matrix:	Water	Calibration:	0701001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00134-ICB1	010307-001	01/03/07 11:33
Cal Standard	BA00134-CAL1	010307-002	01/03/07 11:39
Instrument Blank	BA00134-IBL1	010307-003	01/03/07 11:47
Low Cal Check	BA00134-LCV1	010307-004	01/03/07 11:54
Secondary Cal Check	BA00134-SCV1	010307-005	01/03/07 12:01
Initial Cal Check	BA00134-ICV1	010307-006	01/03/07 12:08
Interference Check A	BA00134-IFA1	010307-008	01/03/07 12:20
Blank	6L29003-BLK1	010307-010	01/03/07 12:34
LCS	6L29003-BS1	010307-011	01/03/07 12:41
B8	6L29003-MS1	010307-012	01/03/07 12:48
B8	6L29003-MSD1	010307-013	01/03/07 12:55
JAX47-937MW4S-120106	B610566-01RE2	010307-015	01/03/07 13:07
Calibration Blank	BA00134-CCB1	010307-021	01/03/07 13:50
Calibration Check	BA00134-CCV1	010307-022	01/03/07 13:57

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00135	Instrument:	JMICP1
Matrix:	Water	Calibration:	0701002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00135-ICB1	122006a-001	12/20/06 09:14
Cal Standard	BA00135-CAL1	122006a-002	12/20/06 09:20
Instrument Blank	BA00135-IBL1	122006a-003	12/20/06 09:31
Low Cal Check	BA00135-LCV1	122006a-004	12/20/06 09:38
Secondary Cal Check	BA00135-SCV1	122006a-005	12/20/06 09:44
Initial Cal Check	BA00135-ICV1	122006a-006	12/20/06 09:51
Interference Check A	BA00135-IFA1	122006a-008	12/20/06 10:04
Calibration Blank	BA00135-CCB1	122006a-047	12/20/06 14:28
Calibration Check	BA00135-CCV1	122006a-048	12/20/06 14:35
LCS	6L13002-BS1	122006a-049	12/20/06 14:41
Blank	6L13002-BLK1	122006a-050	12/20/06 14:48
JAX47-MW12S-120806	6L13002-MS1	122006a-051	12/20/06 14:55
JAX47-MW12S-120806	6L13002-MSD1	122006a-052	12/20/06 15:01
JAX47-MW14S-120806	B610655-02	122006a-055	12/20/06 15:23
Calibration Blank	BA00135-CCB2	122006a-060	12/20/06 15:57
Calibration Check	BA00135-CCV2	122006a-061	12/20/06 16:04
JAX47-MW28S-120806	B610655-05	122006a-062	12/20/06 16:10
Calibration Blank	BA00135-CCB3	122006a-073	12/20/06 17:28
Calibration Check	BA00135-CCV3	122006a-074	12/20/06 17:34

METHOD DETECTION AND REPORTING LIMITS

EPA 6010B

Laboratory: ENCO Jacksonville **SDG:** BR006-014

Client: Tetra Tech NUS (BR006) **Project:** NAS Jacksonville, CTO 047

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units
Arsenic	4	10.0	ug/L

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00122
Calibration: 06120909

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00122-ICB1	Arsenic (dissolved)	0.00	0.01	mg/L		EPA 6010B
BA00122-CCB1	Arsenic (dissolved)	-0.000991	0.01	mg/L		EPA 6010B
BA00122-CCB2	Arsenic (dissolved)	-0.00275	0.01	mg/L		EPA 6010B
BA00122-CCB3	Arsenic (dissolved)	2.55E-5	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00134
Calibration: 0701001

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00134-ICB1	Arsenic (dissolved)	0.00	0.01	mg/L		EPA 6010B
6L29003-BLK1	Arsenic (dissolved)	0.456	10	ug/L		EPA 6010B
BA00134-CCB1	Arsenic (dissolved)	0.000258	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00135
Calibration: 0701002

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00135-ICB1	Arsenic (dissolved)	0.00	0.01	mg/L		EPA 6010B
BA00135-CCB1	Arsenic (dissolved)	-0.000139	0.01	mg/L		EPA 6010B
6L13002-BLK1	Arsenic (dissolved)	3.03	10	ug/L		EPA 6010B
BA00135-CCB2	Arsenic (dissolved)	0.00369	0.01	mg/L		EPA 6010B
BA00135-CCB3	Arsenic (dissolved)	0.00342	0.01	mg/L		EPA 6010B

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville		SDG:	BR006-014	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	6L11015-BLK2	File ID:	010507a-010
Prepared:	12/11/06 11:02	Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL
Analyzed:	01/05/07 11:33	Instrument:	JMICP1		
Batch:	6L11015	Sequence:	BA00136	Calibration:	0701007

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	10.0	U

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L13001-BLK1	File ID:	122006a-010
Prepared:	12/13/06 06:56	Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL
Analyzed:	12/20/06 10:18	Instrument:	JMICP1		
Batch:	6L13001	Sequence:	BA00108	Calibration:	0612013

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	10.0	U

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L13002-BLK1	File ID:	122006a-050
Prepared:	12/13/06 07:03	Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL
Analyzed:	12/20/06 14:48	Instrument:	JMICP1		
Batch:	6L13002	Sequence:	BA00135	Calibration:	0701002

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	10.0	U

METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	ENCO Jacksonville			SDG:	BR006-014
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	6L29003-BLK1	File ID:	010307-010
Prepared:	12/29/06 08:44	Preparation:	EPA 3005A	Initial/Final:	50 mL / 50 mL
Analyzed:	01/03/07 12:34	Instrument:	JMICP1		
Batch:	6L29003	Sequence:	BA00134	Calibration:	0701001

CAS NO.	COMPOUND	CONC. (ug/L)	Q
7440-38-2	Arsenic	10.0	U

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00108
Calibration: 0612009

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00108-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
6L13001-BLK1	Arsenic	2.06	10.0	ug/L		EPA 6010B
BA00108-CCB1	Arsenic	0.00290	0.01	mg/L		EPA 6010B
BA00108-CCB2	Arsenic	0.000823	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00122
Calibration: 0612021

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00122-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00122-CCB1	Arsenic	-0.000991	0.01	mg/L		EPA 6010B
BA00122-CCB2	Arsenic	-0.00275	0.01	mg/L		EPA 6010B
BA00122-CCB3	Arsenic	2.55E-5	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00125
Calibration: 0612021

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00125-CCB1	Arsenic	0.00331	0.01	mg/L		EPA 6010B
BA00125-CCB2	Arsenic	0.000703	0.01	mg/L		EPA 6010B
BA00125-CCB3	Arsenic	0.000282	0.01	mg/L		EPA 6010B
BA00125-CCB4	Arsenic	0.000616	0.01	mg/L		EPA 6010B
BA00125-CCB5	Arsenic	1.33E-5	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00134
Calibration: 0701001

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00134-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
6L29003-BLK1	Arsenic	0.456	10.0	ug/L		EPA 6010B
BA00134-CCB1	Arsenic	0.000258	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00135
Calibration: 0701002

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00135-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
BA00135-CCB1	Arsenic	-0.000139	0.01	mg/L		EPA 6010B
6L13002-BLK1	Arsenic	3.03	10.0	ug/L		EPA 6010B
BA00135-CCB2	Arsenic	0.00369	0.01	mg/L		EPA 6010B
BA00135-CCB3	Arsenic	0.00342	0.01	mg/L		EPA 6010B

BLANKS
EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-014
Client: Tetra Tech NUS (BR006)
Instrument ID: JMICP1
Project: NAS Jacksonville, CTO 047
Sequence: BA00136
Calibration: 0701007

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BA00136-ICB1	Arsenic	0.00	0.01	mg/L		EPA 6010B
6L11015-BLK2	Arsenic	0.608	10.0	ug/L		EPA 6010B
BA00136-CCB1	Arsenic	0.000656	0.01	mg/L		EPA 6010B

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**APRIL 16, 2007**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION- VOC, SVOC, PEST** **CTO 047, NAS JACKSONVILLE** **SDG BR006-020**		
SAMPLES:	1/Aqueous		

JAX47-MW29S-030907 JAX47-MW30S-030907 JAX47-MW31D-030709

OVERVIEW

The sample set for CTO 047 NAS Jacksonville, SDG BR006-020 consists of three (3) aqueous environmental samples. All samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOC), semivolatile organic compounds (SVOC) and, pesticide (PEST) organic compounds.

The samples were collected by TetraTech NUS on March 9, 2007 and analyzed by Environmental Conservation Laboratories, Inc. Analyses were conducted in accordance with SW-846 Methods 8260B, 8270C, and 8081A analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• GC/MS Tuning
	• Initial/continuing calibrations
	• Laboratory method blank results
*	• Surrogate Recoveries
	• Blank Spike/Blank Spike Duplicate Results
	• Matrix Spike/Matrix Spike Duplicate Results
*	• Compound Quantitation
	• Compound Identification
*	• Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

VOC

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Carbon disulfide	1.59 ug/L	7.95 ug/L
Toluene	0.23 ug/L	1.15 ug/kg
Total xylenes	0.41 ug/L	2.05 ug/kg

An action level of 5X the maximum contaminant concentration was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration during the application of the action level. The positive result for total xylenes was qualified (U) as a blank contaminant in sample JAX47-MW29S-030907. The positive results for toluene and total xylenes were qualified (U) as blank contaminants in samples JAX47-MW30S-030907 and JAX47-MW31D-030907

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample JAX47-MW31D-0300709 had percent recoveries below the quality control limit for bromomethane in the MS / MSD. Bromomethane was not detected in the associated LCS. The laboratory reported a problem with detecting this compound in the entire batch run. The bromomethane results for all samples have been rejected (UR).

Continuing calibration percent difference (%D) was greater than the 25% quality control limit for bromomethane on instrument JSVGCMS2 on 3/23/07. Only non-detected results were reported for the aforementioned compound and these were previously rejected because of a more severe problem.

PEST

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Delta-BHC	0.061 ug/L	0.305 ug/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. The method blank was reported on a wet weight basis. The positive delta-BHC results in samples JAX47-MW29S-030907 and JAX47-MW30S-030907 below the blank action level were qualified as non-detected, (U).

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for several compounds in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	% Difference	Qualification
JAX47-MW29S-030907	Heptachlor	46.2%	J
	Dieldrin	58.1%	J
	4,4'-DDT	186%	J
	beta-BHC	125%	J
JAX47-MW30S-030907	Heptachlor	57.1%	J
	Dieldrin	44.9%	J
	4,4'-DDE	47.4%	J
	beta-BHC	124%	J
	Endosulfan II	139%	J

SVOC

Continuing calibration percent differences (%Ds) were greater than the 25% quality control limit for 2,4-dinitrophenol, 2-methyl-4,6-dinitrophenol, and 4-nitroaniline chloride on instrument JSVGCMS1 on 3/22/07. Only non-detected results were reported for the aforementioned compounds and these were qualified as estimated (UJ), in the affected samples.

The Form VI and VII submitted with this package were incomplete. The laboratory was contacted and resubmitted corrected forms.

MS/MSD performed on sample JAX47-MW31D-030907 had percent recoveries greater than the quality control limit for 2-methyl-4,6-dinitrophenol, fluroanthene, benzo(a)anthracene, chrysene, and benzo(a)pyrene in the MS and N-nitrosodiphenylamine in the MS/MSD. No action was taken on this basis because these compounds were not detected in the associated sample.

The laboratory control sample (LCS) had a percent recovery greater than the quality control limit for N-nitrosodiphenylamine. No action was taken on this basis because N-nitrosodiphenylamine was not detected in the associated samples.

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several compounds were detected in the method blanks for the VOC and PEST fractions. Several compounds for the VOC and SVOC exceeded the continuing calibration %D criteria resulting in qualification of the data. Bromomethane was not detected in a VOC LCS resulting in rejection of the data for all samples. Several SVOC compounds were not analyzed by the laboratory in the initial and/or continuing calibrations.

Other Factors Affecting Data Quality: Several recovery non-compliances were noted for the MS/MSDs for the VOC and SVOC fractions. Percent difference between columns for the PEST fraction exceeded criteria for several compounds resulting in qualification of the data.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999), and Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-020 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW29S-030907	nsample	JAX47-MW29S-030907	nsample	JAX47-MW30S-030907
samp_date	3/9/2007	samp_date	3/9/2007	samp_date	3/9/2007
lab_id	B702192-01	lab_id	B702192-01	lab_id	B702192-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.58	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	UR	E
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.45	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.54	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.51	U	
METHYL CYCLOHEXANE	0.55	U	
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.4	U	A
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.58	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	4.06	J	P
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.22	J	P
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	UR	E
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.37	J	P
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.45	U	

PROJ_NO: 00497

SDG: BR006-020 MEDIA: WATER DATA FRACTION: OV

nsample	JAX47-MW30S-030907
samp_date	3/9/2007
lab_id	B702192-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.54	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.51	U	
METHYL CYCLOHEXANE	0.55	U	
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.51	U	A
TOTAL XYLENES	0.43	U	A
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

nsample	JAX47-MW31D-030709
samp_date	3/9/2007
lab_id	B702192-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.58	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.66	J	P
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	UR	E
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	2.18		
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.45	U	

nsample	JAX47-MW31D-030709
samp_date	3/9/2007
lab_id	B702192-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.54	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.51	U	
METHYL CYCLOHEXANE	0.55	U	
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.75	J	P
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.24	U	A
TOTAL XYLENES	0.4	U	A
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-020 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW29S-030907	nsample	JAX47-MW29S-030907	nsample	JAX47-MW29S-030907
samp_date	3/9/2007	samp_date	3/9/2007	samp_date	3/9/2007
lab_id	B702192-01	lab_id	B702192-01	lab_id	B702192-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1-BIPHENYL	3	U	U	
2,4,5-TRICHLOROPHENOL	2	U	U	
2,4,6-TRICHLOROPHENOL	2	U	U	
2,4-DICHLOROPHENOL	2	U	U	
2,4-DIMETHYLPHENOL	2	U	U	
2,4-DINITROPHENOL	1	U	UJ	C
2,4-DINITROTOLUENE	2	U	U	
2,6-DINITROTOLUENE	2	U	U	
2-CHLORONAPHTHALENE	2	U	U	
2-CHLOROPHENOL	3	U	U	
2-METHYLNAPHTHALENE	2	U	U	
2-METHYLPHENOL	2	U	U	
2-NITROANILINE	2	U	U	
2-NITROPHENOL	3	U	U	
3,3'-DICHLOROBENZIDINE	2	U	U	
3-NITROANILINE	0.9	U	U	
4,6-DINITRO-2-METHYLPHENOL	1	U	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	U	
4-CHLORO-3-METHYLPHENOL	1	U	U	
4-CHLOROANILINE	2	U	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	U	
4-METHYLPHENOL	2	U	U	
4-NITROANILINE	2	U	UJ	C
4-NITROPHENOL	1	U	U	
ACENAPHTHENE	2	U	U	
ACENAPHTHYLENE	2	U	U	
ACETOPHENONE	2	U	U	
ANTHRACENE	1	U	U	
ATRAZINE	1	U	U	
BENZALDEHYDE	3	U	U	
BENZO(A)ANTHRACENE	1	U	U	
BENZO(A)PYRENE	1	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	U	
BENZO(G,H,I)PERYLENE	3	U	U	
BENZO(K)FLUORANTHENE	1	U	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	U	
BIS(2-CHLOROETHYL)ETHER	3	U	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	U	
BUTYL BENZYL PHTHALATE	1	U	U	
CAPROLACTAM	2	U	U	
CARBAZOLE	1	U	U	
CHRYSENE	2	U	U	
DIBENZO(A,H)ANTHRACENE	3	U	U	
DIBENZOFURAN	2	U	U	
DIETHYL PHTHALATE	9	J	J	P
DIMETHYL PHTHALATE	1	U	U	
DI-N-BUTYL PHTHALATE	1	U	U	
DI-N-OCTYL PHTHALATE	2	U	U	
FLUORANTHENE	2	U	U	
FLUORENE	1	U	U	
HEXACHLOROBENZENE	2	U	U	
HEXACHLOROBUTADIENE	3	U	U	
HEXACHLOROCYCLOPENTADIENE	2	U	U	
HEXACHLOROETHANE	3	U	U	
INDENO(1,2,3-CD)PYRENE	3	U	U	
ISOPHORONE	3	U	U	
NAPHTHALENE	3	U	U	
NITROBENZENE	4	U	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	U	
N-NITROSODIPHENYLAMINE	2	U	U	
PENTACHLOROPHENOL	1	U	U	
PHENANTHRENE	1	U	U	
PHENOL	2	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
PYRENE	2	U	U	

PROJ_NO: 00497

SDG: BR006-020 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW30S-030907
samp_date	3/9/2007
lab_id	B702192-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1-BIPHENYL	3	U	U	
2,4,5-TRICHLOROPHENOL	2	U	U	
2,4,6-TRICHLOROPHENOL	2	U	U	
2,4-DICHLOROPHENOL	2	U	U	
2,4-DIMETHYLPHENOL	2	U	U	
2,4-DINITROPHENOL	1	U	UJ	C
2,4-DINITROTOLUENE	2	U	U	
2,6-DINITROTOLUENE	2	U	U	
2-CHLORONAPHTHALENE	2	U	U	
2-CHLOROPHENOL	3	U	U	
2-METHYLNAPHTHALENE	2	U	U	
2-METHYLPHENOL	2	U	U	
2-NITROANILINE	2	U	U	
2-NITROPHENOL	3	U	U	
3,3'-DICHLOROBENZIDINE	2	U	U	
3-NITROANILINE	0.9	U	U	
4,6-DINITRO-2-METHYLPHENOL	1	U	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	U	
4-CHLORO-3-METHYLPHENOL	1	U	U	
4-CHLOROANILINE	2	U	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	U	
4-METHYLPHENOL	2	U	U	
4-NITROANILINE	2	U	UJ	C
4-NITROPHENOL	1	U	U	
ACENAPHTHENE	2	U	U	
ACENAPHTHYLENE	2	U	U	
ACETOPHENONE	2	U	U	
ANTHRACENE	1	U	U	
ATRAZINE	1	U	U	
BENZALDEHYDE	3	U	U	
BENZO(A)ANTHRACENE	1	U	U	
BENZO(A)PYRENE	1	U	U	

nsample	JAX47-MW30S-030907
samp_date	3/9/2007
lab_id	B702192-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	U	
BENZO(G,H,I)PERYLENE	3	U	U	
BENZO(K)FLUORANTHENE	1	U	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	U	
BIS(2-CHLOROETHYL)ETHER	3	U	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	U	
BUTYL BENZYL PHTHALATE	1	U	U	
CAPROLACTAM	2	U	U	
CARBAZOLE	1	U	U	
CHRYSENE	2	U	U	
DIBENZO(A,H)ANTHRACENE	3	U	U	
DIBENZOFURAN	2	U	U	
DIETHYL PHTHALATE	2	U	U	
DIMETHYL PHTHALATE	1	U	U	
DI-N-BUTYL PHTHALATE	1	U	U	
DI-N-OCTYL PHTHALATE	2	U	U	
FLUORANTHENE	2	U	U	
FLUORENE	1	U	U	
HEXACHLOROBENZENE	2	U	U	
HEXACHLOROBUTADIENE	3	U	U	
HEXACHLOROCYCLOPENTADIENE	2	U	U	
HEXACHLOROETHANE	3	U	U	
INDENO(1,2,3-CD)PYRENE	3	U	U	
ISOPHORONE	3	U	U	
NAPHTHALENE	3	U	U	
NITROBENZENE	4	U	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	U	
N-NITROSODIPHENYLAMINE	2	U	U	
PENTACHLOROPHENOL	1	U	U	
PHENANTHRENE	1	U	U	
PHENOL	2	U	U	

nsample	JAX47-MW30S-030907
samp_date	3/9/2007
lab_id	B702192-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
PYRENE	2	U	U	

PROJ_NO: 00497

SDG: BR006-020 MEDIA: WATER DATA FRACTION: OS

nsample	JAX47-MW31D-030709
samp_date	3/9/2007
lab_id	B702192-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1-BIPHENYL	3	U	U	
2,4,5-TRICHLOROPHENOL	2	U	U	
2,4,6-TRICHLOROPHENOL	2	U	U	
2,4-DICHLOROPHENOL	2	U	U	
2,4-DIMETHYLPHENOL	2	U	U	
2,4-DINITROPHENOL	1	U	UJ	C
2,4-DINITROTOLUENE	2	U	U	
2,6-DINITROTOLUENE	2	U	U	
2-CHLORONAPHTHALENE	2	U	U	
2-CHLOROPHENOL	3	U	U	
2-METHYLNAPHTHALENE	2	U	U	
2-METHYLPHENOL	2	U	U	
2-NITROANILINE	2	U	U	
2-NITROPHENOL	3	U	U	
3,3'-DICHLOROBENZIDINE	2	U	U	
3-NITROANILINE	0.9	U	U	
4,6-DINITRO-2-METHYLPHENOL	1	U	UJ	C
4-BROMOPHENYL PHENYL ETHER	2	U	U	
4-CHLORO-3-METHYLPHENOL	1	U	U	
4-CHLOROANILINE	2	U	U	
4-CHLOROPHENYL PHENYL ETHER	2	U	U	
4-METHYLPHENOL	2	U	U	
4-NITROANILINE	2	U	UJ	C
4-NITROPHENOL	1	U	U	
ACENAPHTHENE	2	U	U	
ACENAPHTHYLENE	2	U	U	
ACETOPHENONE	2	U	U	
ANTHRACENE	1	U	U	
ATRAZINE	1	U	U	
BENZALDEHYDE	3	U	U	
BENZO(A)ANTHRACENE	1	U	U	
BENZO(A)PYRENE	1	U	U	

nsample	JAX47-MW31D-030709
samp_date	3/9/2007
lab_id	B702192-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZO(B)FLUORANTHENE	2	U	U	
BENZO(G,H,I)PERYLENE	3	U	U	
BENZO(K)FLUORANTHENE	1	U	U	
BIS(2-CHLOROETHOXY)METHANE	3	U	U	
BIS(2-CHLOROETHYL)ETHER	3	U	U	
BIS(2-CHLOROISOPROPYL)ETHER	4	U	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2	U	U	
BUTYL BENZYL PHTHALATE	1	U	U	
CAPROLACTAM	2	U	U	
CARBAZOLE	1	U	U	
CHRYSENE	2	U	U	
DIBENZO(A,H)ANTHRACENE	3	U	U	
DIBENZOFURAN	2	U	U	
DIETHYL PHTHALATE	2	U	U	
DIMETHYL PHTHALATE	1	U	U	
DI-N-BUTYL PHTHALATE	1	U	U	
DI-N-OCTYL PHTHALATE	2	U	U	
FLUORANTHENE	2	U	U	
FLUORENE	1	U	U	
HEXACHLOROBENZENE	2	U	U	
HEXACHLOROBUTADIENE	3	U	U	
HEXACHLOROCYCLOPENTADIENE	2	U	U	
HEXACHLOROETHANE	3	U	U	
INDENO(1,2,3-CD)PYRENE	3	U	U	
ISOPHORONE	3	U	U	
NAPHTHALENE	3	U	U	
NITROBENZENE	4	U	U	
N-NITROSO-DI-N-PROPYLAMINE	3	U	U	
N-NITROSODIPHENYLAMINE	2	U	U	
PENTACHLOROPHENOL	1	U	U	
PHENANTHRENE	1	U	U	
PHENOL	2	U	U	

nsample	JAX47-MW31D-030709
samp_date	3/9/2007
lab_id	B702192-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
PYRENE	2	U	U	

PROJ_NO: 00497

SDG: BR006-020 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	JAX47-MW29S-030907	nsample	JAX47-MW30S-030907	nsample	JAX47-MW31D-030709
samp_date	3/9/2007	samp_date	3/9/2007	samp_date	3/9/2007
lab_id	B702192-01	lab_id	B702192-02	lab_id	B702192-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	J	PU
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.003	J	PU
DELTA-BHC	0.062	U	A
DIELDRIN	0.004	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.003	J	P
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	J	PU
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.004	J	P
4,4'-DDE	0.004	J	PU
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.004	J	PU
DELTA-BHC	0.061	U	A
DIELDRIN	0.009	J	PU
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.039	J	PU
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.002	J	PU
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.002	U	
4,4'-DDT	0.002	U	
ALDRIN	0.002	U	
ALPHA-BHC	0.001	U	
ALPHA-CHLORDANE	0.001	U	
BETA-BHC	0.002	U	
DELTA-BHC	0.001	U	
DIELDRIN	0.0008	U	
ENDOSULFAN I	0.002	U	
ENDOSULFAN II	0.002	U	
ENDOSULFAN SULFATE	0.002	U	
ENDRIN	0.002	U	
ENDRIN ALDEHYDE	0.009	U	
ENDRIN KETONE	0.003	U	
GAMMA-BHC (LINDANE)	0.002	U	
GAMMA-CHLORDANE	0.001	U	
HEPTACHLOR	0.001	U	
HEPTACHLOR EPOXIDE	0.001	U	
METHOXYCHLOR	0.003	U	
TOXAPHENE	0.05	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW29S-030907

Laboratory: ENCO Jacksonville | SDG: BR006-020

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B702192-01 | File ID: 11CQ059.D

Sampled: 03/09/07 11:10 | Prepared: 03/22/07 16:00 | Analyzed: 03/23/07 17:36

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 7C23017 | Sequence: BA00473 | Calibration: 0704001 | Instrument: JVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
110-82-7	Cyclohexane	1	0.450	U	0.450	1.00
60-29-7	Diethyl ether	1	0.540	U	0.540	1.00
79-20-9	Methyl acetate	1	0.510	U	0.510	1.00
108-87-2	Methyl cyclohexane	1	0.550	U	0.550	1.00
75-71-8	Dichlorodifluoromethane	1	0.300	U	0.300	1.00
74-87-3	Chloromethane	1	0.300	U	0.300	1.00
75-01-4	Vinyl chloride	1	0.400	U	0.400	1.00
74-83-9	Bromomethane	1	0.600	U	0.600	1.00
75-00-3	Chloroethane	1	0.300	U	0.300	1.00
75-69-4	Trichlorofluoromethane	1	0.300	U	0.300	1.00
75-35-4	1,1-Dichloroethene	1	0.200	U	0.200	1.00
67-64-1	Acetone	1	2.00	U	2.00	5.00
75-15-0	Carbon disulfide	1	0.900	U	0.900	5.00
75-09-2	Methylene Chloride	1	2.00	U	2.00	2.00
1634-04-4	Methyl-tert-Butyl Ether	1	0.200	U	0.200	1.00
156-60-5	trans-1,2-Dichloroethene	1	0.200	U	0.200	1.00
75-34-3	1,1-Dichloroethane	1	0.200	U	0.200	1.00
78-93-3	2-Butanone	1	2.00	U	2.00	5.00
156-59-2	cis-1,2-Dichloroethene	1	0.200	U	0.200	1.00
67-66-3	Chloroform	1	0.200	U	0.200	1.00
71-55-6	1,1,1-Trichloroethane	1	0.300	U	0.300	1.00
56-23-5	Carbon Tetrachloride	1	0.300	U	0.300	1.00
107-06-2	1,2-Dichloroethane	1	0.100	U	0.100	1.00
71-43-2	Benzene	1	0.200	U	0.200	1.00
79-01-6	Trichloroethene	1	0.300	U	0.300	1.00
78-87-5	1,2-Dichloropropane	1	0.400	U	0.400	1.00
75-27-4	Bromodichloromethane	1	0.200	U	0.200	0.400
10061-01-5	cis-1,3-Dichloropropene	1	0.100	U	0.100	0.200
108-10-1	4-Methyl-2-pentanone	1	2.00	U	2.00	5.00
108-88-3	Toluene	1	0.200	U	0.200	1.00
10061-02-6	trans-1,3-Dichloropropene	1	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	1	0.300	U	0.300	1.00
127-18-4	Tetrachloroethene	1	0.300	U	0.300	1.00
591-78-6	2-Hexanone	1	0.600	U	0.600	5.00
124-48-1	Dibromochloromethane	1	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	1	0.100	U	0.100	1.00
108-90-7	Chlorobenzene	1	0.200	U	0.200	1.00
100-41-4	Ethylbenzene	1	0.300	U	0.300	1.00
100-42-5	Styrene	1	0.100	U	0.100	1.00
75-25-2	Bromoform	1	0.200	U	0.200	1.00

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW29S-030907

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-01	File ID:	11CQ059.D
Sampled:	03/09/07 11:10	Prepared:	03/22/07 16:00	Analyzed:	03/23/07 17:36
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001
Instrument:	JVGCMS2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
98-82-8	Isopropylbenzene	1	0.100	U	0.100	1.00
79-34-5	1,1,2,2-Tetrachloroethane	1	0.200	U	0.200	0.200
541-73-1	1,3-Dichlorobenzene	1	0.200	U	0.200	1.00
106-46-7	1,4-Dichlorobenzene	1	0.100	U	0.100	1.00
95-50-1	1,2-Dichlorobenzene	1	0.200	U	0.200	1.00
96-12-8	1,2-Dibromo-3-chloropropane	1	0.300	U	0.300	1.00
120-82-1	1,2,4-Trichlorobenzene	1	0.100	U	0.100	1.00
76-13-1	Freon 113	1	0.580	U	0.580	1.00
NA	Xylenes (Total)	1	0.400	I	0.300	1.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.6	101	85 - 115	
Toluene-d8	50.0	50.3	101	85 - 120	
4-Bromofluorobenzene	50.0	49.9	100	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	240629	8.78	301427	8.78	
1,4-Difluorobenzene	365923	9.43	458265	9.42	
Chlorobenzene-d5	289168	12.97	371867	12.97	
1,4-Dichlorobenzene-d4	140918	16.06	191713	16.07	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW30S-030907

Laboratory:	ENCO Jacksonville		SDG:	BR006-020	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Ground Water	Laboratory ID:	B702192-02	File ID:	11CQ060.D
Sampled:	03/09/07 12:50	Prepared:	03/22/07 16:00	Analyzed:	03/23/07 18:08
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001
Instrument:	JVGCMS2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
110-82-7	Cyclohexane	1	0.450	U	0.450	1.00
60-29-7	Diethyl ether	1	0.540	U	0.540	1.00
79-20-9	Methyl acetate	1	0.510	U	0.510	1.00
108-87-2	Methyl cyclohexane	1	0.550	U	0.550	1.00
75-71-8	Dichlorodifluoromethane	1	0.300	U	0.300	1.00
74-87-3	Chloromethane	1	0.300	U	0.300	1.00
75-01-4	Vinyl chloride	1	0.400	U	0.400	1.00
74-83-9	Bromomethane	1	0.600	U	0.600	1.00
75-00-3	Chloroethane	1	0.300	U	0.300	1.00
75-69-4	Trichlorofluoromethane	1	0.300	U	0.300	1.00
75-35-4	1,1-Dichloroethene	1	0.200	U	0.200	1.00
67-64-1	Acetone	1	2.00	U	2.00	5.00
75-15-0	Carbon disulfide	1	0.900	U	0.900	5.00
75-09-2	Methylene Chloride	1	2.00	U	2.00	2.00
1634-04-4	Methyl-tert-Butyl Ether	1	0.200	U	0.200	1.00
156-60-5	trans-1,2-Dichloroethene	1	0.200	U	0.200	1.00
75-34-3	1,1-Dichloroethane	1	0.200	U	0.200	1.00
78-93-3	2-Butanone	1	4.06	I	2.00	5.00
156-59-2	cis-1,2-Dichloroethene	1	0.200	U	0.200	1.00
67-66-3	Chloroform	1	0.370	I	0.200	1.00
71-55-6	1,1,1-Trichloroethane	1	0.300	U	0.300	1.00
56-23-5	Carbon Tetrachloride	1	0.300	U	0.300	1.00
107-06-2	1,2-Dichloroethane	1	0.100	U	0.100	1.00
71-43-2	Benzene	1	0.220	I	0.200	1.00
79-01-6	Trichloroethene	1	0.300	U	0.300	1.00
78-87-5	1,2-Dichloropropane	1	0.400	U	0.400	1.00
75-27-4	Bromodichloromethane	1	0.200	U	0.200	0.400
10061-01-5	cis-1,3-Dichloropropene	1	0.100	U	0.100	0.200
108-10-1	4-Methyl-2-pentanone	1	2.00	U	2.00	5.00
108-88-3	Toluene	1	0.510	I	0.200	1.00
10061-02-6	trans-1,3-Dichloropropene	1	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	1	0.300	U	0.300	1.00
127-18-4	Tetrachloroethene	1	0.300	U	0.300	1.00
591-78-6	2-Hexanone	1	0.600	U	0.600	5.00
124-48-1	Dibromochloromethane	1	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	1	0.100	U	0.100	1.00
108-90-7	Chlorobenzene	1	0.200	U	0.200	1.00
100-41-4	Ethylbenzene	1	0.300	U	0.300	1.00
100-42-5	Styrene	1	0.100	U	0.100	1.00
75-25-2	Bromoform	1	0.200	U	0.200	1.00

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW30S-030907

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-02	File ID:	11CQ060.D
Sampled:	03/09/07 12:50	Prepared:	03/22/07 16:00	Analyzed:	03/23/07 18:08
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001
Instrument:	JVGCMS2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
98-82-8	Isopropylbenzene	1	0.100	U	0.100	1.00
79-34-5	1,1,2,2-Tetrachloroethane	1	0.200	U	0.200	0.200
541-73-1	1,3-Dichlorobenzene	1	0.200	U	0.200	1.00
106-46-7	1,4-Dichlorobenzene	1	0.100	U	0.100	1.00
95-50-1	1,2-Dichlorobenzene	1	0.200	U	0.200	1.00
96-12-8	1,2-Dibromo-3-chloropropane	1	0.300	U	0.300	1.00
120-82-1	1,2,4-Trichlorobenzene	1	0.100	U	0.100	1.00
76-13-1	Freon 113	1	0.580	U	0.580	1.00
NA	Xylenes (Total)	1	0.430	I	0.300	1.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	51.7	103	85 - 115	
Toluene-d8	50.0	50.8	102	85 - 120	
4-Bromofluorobenzene	50.0	49.0	98	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	239967	8.78	301427	8.78	
1,4-Difluorobenzene	364971	9.42	458265	9.42	
Chlorobenzene-d5	292931	12.97	371867	12.97	
1,4-Dichlorobenzene-d4	140862	16.07	191713	16.07	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW31D-030709

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-03	File ID:	11CQ055.D
Sampled:	03/09/07 14:30	Prepared:	03/22/07 16:00	Analyzed:	03/23/07 15:27
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001
Instrument:	JVGCMS2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
110-82-7	Cyclohexane	1	0.450	U	0.450	1.00
60-29-7	Diethyl ether	1	0.540	U	0.540	1.00
79-20-9	Methyl acetate	1	0.510	U	0.510	1.00
108-87-2	Methyl cyclohexane	1	0.550	U	0.550	1.00
75-71-8	Dichlorodifluoromethane	1	0.300	U	0.300	1.00
74-87-3	Chloromethane	1	0.300	U	0.300	1.00
75-01-4	Vinyl chloride	1	0.400	U	0.400	1.00
74-83-9	Bromomethane	1	0.600	U	0.600	1.00
75-00-3	Chloroethane	1	0.300	U	0.300	1.00
75-69-4	Trichlorofluoromethane	1	0.300	U	0.300	1.00
75-35-4	1,1-Dichloroethene	1	0.200	U	0.200	1.00
67-64-1	Acetone	1	2.00	U	2.00	5.00
75-15-0	Carbon disulfide	1	0.900	U	0.900	5.00
75-09-2	Methylene Chloride	1	2.00	U	2.00	2.00
1634-04-4	Methyl-tert-Butyl Ether	1	0.200	U	0.200	1.00
156-60-5	trans-1,2-Dichloroethene	1	0.200	U	0.200	1.00
75-34-3	1,1-Dichloroethane	1	0.200	U	0.200	1.00
78-93-3	2-Butanone	1	2.00	U	2.00	5.00
156-59-2	cis-1,2-Dichloroethene	1	2.18		0.200	1.00
67-66-3	Chloroform	1	0.200	U	0.200	1.00
71-55-6	1,1,1-Trichloroethane	1	0.300	U	0.300	1.00
56-23-5	Carbon Tetrachloride	1	0.300	U	0.300	1.00
107-06-2	1,2-Dichloroethane	1	0.100	U	0.100	1.00
71-43-2	Benzene	1	0.660	I	0.200	1.00
79-01-6	Trichloroethene	1	0.300	U	0.300	1.00
78-87-5	1,2-Dichloropropane	1	0.400	U	0.400	1.00
75-27-4	Bromodichloromethane	1	0.200	U	0.200	0.400
10061-01-5	cis-1,3-Dichloropropene	1	0.100	U	0.100	0.200
108-10-1	4-Methyl-2-pentanone	1	2.00	U	2.00	5.00
108-88-3	Toluene	1	0.240	I	0.200	1.00
10061-02-6	trans-1,3-Dichloropropene	1	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	1	0.300	U	0.300	1.00
127-18-4	Tetrachloroethene	1	0.300	U	0.300	1.00
591-78-6	2-Hexanone	1	0.600	U	0.600	5.00
124-48-1	Dibromochloromethane	1	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	1	0.100	U	0.100	1.00
108-90-7	Chlorobenzene	1	0.200	U	0.200	1.00
100-41-4	Ethylbenzene	1	0.300	U	0.300	1.00
100-42-5	Styrene	1	0.750	I	0.100	1.00
75-25-2	Bromoform	1	0.200	U	0.200	1.00

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-MW31D-030709

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-03	File ID:	11CQ055.D
Sampled:	03/09/07 14:30	Prepared:	03/22/07 16:00	Analyzed:	03/23/07 15:27
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001
Instrument:	JVGCMS2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
98-82-8	Isopropylbenzene	1	0.100	U	0.100	1.00
79-34-5	1,1,2,2-Tetrachloroethane	1	0.200	U	0.200	0.200
541-73-1	1,3-Dichlorobenzene	1	0.200	U	0.200	1.00
106-46-7	1,4-Dichlorobenzene	1	0.100	U	0.100	1.00
95-50-1	1,2-Dichlorobenzene	1	0.200	U	0.200	1.00
96-12-8	1,2-Dibromo-3-chloropropane	1	0.300	U	0.300	1.00
120-82-1	1,2,4-Trichlorobenzene	1	0.100	U	0.100	1.00
76-13-1	Freon 113	1	0.580	U	0.580	1.00
NA	Xylenes (Total)	1	0.400	I	0.300	1.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.8	102	85 - 115	
Toluene-d8	50.0	50.2	100	85 - 120	
4-Bromofluorobenzene	50.0	49.2	98	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	249256	8.77	301427	8.78	
1,4-Difluorobenzene	381735	9.42	458265	9.42	
Chlorobenzene-d5	302911	12.97	371867	12.97	
1,4-Dichlorobenzene-d4	147070	16.07	191713	16.07	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW29S-030907

Laboratory: ENCO Jacksonville | SDG: BR006-020

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B702192-01 | File ID: 5CP042.D

Sampled: 03/09/07 11:10 | Prepared: 03/15/07 07:38 | Analyzed: 03/22/07 17:51

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 7C15003 | Sequence: BA00466 | Calibration: 0703009 | Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
108-95-2	Phenol	1	2	U	2	10
111-44-4	Bis(2-chloroethyl)ether	1	3	U	3	10
95-57-8	2-Chlorophenol	1	3	U	3	10
95-48-7	2-Methylphenol	1	2	U	2	10
39638-32-9	Bis(2-chloroisopropyl)ether	1	4	U	4	10
106-44-5	3 & 4-Methylphenol	1	2	U	2	10
621-64-7	N-Nitroso-di-n-propylamine	1	3	U	3	10
67-72-1	Hexachloroethane	1	3	U	3	10
98-95-3	Nitrobenzene	1	4	U	4	10
78-59-1	Isophorone	1	3	U	3	10
88-75-5	2-Nitrophenol	1	3	U	3	10
105-67-9	2,4-Dimethylphenol	1	2	U	2	10
111-91-1	Bis(2-chloroethoxy)methane	1	3	U	3	10
120-83-2	2,4-Dichlorophenol	1	2	U	2	10
91-20-3	Naphthalene	1	3	U	3	10
106-47-8	4-Chloroaniline	1	2	U	2	10
87-68-3	Hexachlorobutadiene	1	3	U	3	10
59-50-7	4-Chloro-3-methylphenol	1	1	U	1	10
91-57-6	2-Methylnaphthalene	1	2	U	2	10
77-47-4	Hexachlorocyclopentadiene	1	2	U	2	10
88-06-2	2,4,6-Trichlorophenol	1	2	U	2	10
95-95-4	2,4,5-Trichlorophenol	1	2	U	2	10
91-58-7	2-Chloronaphthalene	1	2	U	2	10
88-74-4	2-Nitroaniline	1	2	U	2	10
131-11-3	Dimethylphthalate	1	1	U	1	10
606-20-2	2,6-Dinitrotoluene	1	2	U	2	10
208-96-8	Acenaphthylene	1	2	U	2	10
99-09-2	3-Nitroaniline	1	0.9	U	0.9	10
83-32-9	Acenaphthene	1	2	U	2	10
51-28-5	2,4-Dinitrophenol	1	1	U	1	10
100-02-7	4-Nitrophenol	1	1	U	1	10
132-64-9	Dibenzofuran	1	2	U	2	10
121-14-2	2,4-Dinitrotoluene	1	2	U	2	10
84-66-2	Diethylphthalate	1	9	I	2	10
7005-72-3	4-Chlorophenyl-phenylether	1	2	U	2	10
86-73-7	Fluorene	1	1	U	1	10
100-01-6	4-Nitroaniline	1	2	U	2	10
534-52-1	2-Methyl-4,6-dinitrophenol	1	1	U	1	10
86-30-6	N-Nitrosodiphenylamine	1	2	U	2	10
101-55-3	4-Bromophenyl-phenylether	1	2	U	2	10

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW29S-030907

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-01	File ID:	5CP042.D
Sampled:	03/09/07 11:10	Prepared:	03/15/07 07:38	Analyzed:	03/22/07 17:51
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	7C15003	Sequence:	BA00466	Calibration:	0703009
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
118-74-1	Hexachlorobenzene	1	2	U	2	10
87-86-5	Pentachlorophenol	1	1	U	1	10
85-01-8	Phenanthrene	1	1	U	1	10
120-12-7	Anthracene	1	1	U	1	10
86-74-8	Carbazole	1	1	U	1	10
84-74-2	Di-n-butylphthalate	1	1	U	1	10
206-44-0	Fluoranthene	1	2	U	2	10
129-00-0	Pyrene	1	2	U	2	10
92-52-4	1,1'-Biphenyl	1	3	U	3	10
1912-24-9	Atrazine	1	1	U	1	10
85-68-7	Butylbenzylphthalate	1	1	U	1	10
100-52-7	Benzaldehyde	1	3	U	3	10
91-94-1	3,3'-Dichlorobenzidine	1	2	U	2	10
105-60-2	Caprolactam	1	2	U	2	10
56-55-3	Benzo(a)anthracene	1	1	U	1	10
117-81-7	Bis(2-ethylhexyl)phthalate	1	2	U	2	10
218-01-9	Chrysene	1	2	U	2	10
117-84-0	Di-n-octylphthalate	1	2	U	2	10
205-99-2	Benzo(b)fluoranthene	1	2	U	2	10
207-08-9	Benzo(k)fluoranthene	1	1	U	1	10
50-32-8	Benzo(a)pyrene	1	1	U	1	10
193-39-5	Indeno(1,2,3-cd)pyrene	1	3	U	3	10
53-70-3	Dibenzo(a,h)anthracene	1	3	U	3	10
191-24-2	Benzo(g,h,i)perylene	1	3	U	3	10
98-86-2	Acetophenone	1	2	U	2	10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	34.0	34	20 - 110	
Phenol-d5	100	24.0	24	10 - 94	
Nitrobenzene-d5	50.0	35.8	72	40 - 110	
2-Fluorobiphenyl	50.0	32.4	65	50 - 110	
2,4,6-Tribromophenol	100	63.9	64	40 - 125	
Terphenyl-d14	50.0	51.8	104	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	283778	4.86	357496	4.86	
Naphthalene-d8	1025672	6.06	1315401	6.06	
Acenaphthene-d10	706903	7.79	858277	7.79	
Phenanthrene-d10	1279641	9.28	1504620	9.28	
Chrysene-d12	1723944	11.93	2244664	11.93	
Perylene-d12	1609408	13.34	1981214	13.34	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW30S-030907

Laboratory: ENCO Jacksonville | SDG: BR006-020

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B702192-02 | File ID: 5CP041.D

Sampled: 03/09/07 12:50 | Prepared: 03/15/07 07:38 | Analyzed: 03/22/07 17:27

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 7C15003 | Sequence: BA00466 | Calibration: 0703009 | Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
108-95-2	Phenol	1	2	U	2	10
111-44-4	Bis(2-chloroethyl)ether	1	3	U	3	10
95-57-8	2-Chlorophenol	1	3	U	3	10
95-48-7	2-Methylphenol	1	2	U	2	10
39638-32-9	Bis(2-chloroisopropyl)ether	1	4	U	4	10
106-44-5	3 & 4-Methylphenol	1	2	U	2	10
621-64-7	N-Nitroso-di-n-propylamine	1	3	U	3	10
67-72-1	Hexachloroethane	1	3	U	3	10
98-95-3	Nitrobenzene	1	4	U	4	10
78-59-1	Isophorone	1	3	U	3	10
88-75-5	2-Nitrophenol	1	3	U	3	10
105-67-9	2,4-Dimethylphenol	1	2	U	2	10
111-91-1	Bis(2-chloroethoxy)methane	1	3	U	3	10
120-83-2	2,4-Dichlorophenol	1	2	U	2	10
91-20-3	Naphthalene	1	3	U	3	10
106-47-8	4-Chloroaniline	1	2	U	2	10
87-68-3	Hexachlorobutadiene	1	3	U	3	10
59-50-7	4-Chloro-3-methylphenol	1	1	U	1	10
91-57-6	2-Methylnaphthalene	1	2	U	2	10
77-47-4	Hexachlorocyclopentadiene	1	2	U	2	10
88-06-2	2,4,6-Trichlorophenol	1	2	U	2	10
95-95-4	2,4,5-Trichlorophenol	1	2	U	2	10
91-58-7	2-Chloronaphthalene	1	2	U	2	10
88-74-4	2-Nitroaniline	1	2	U	2	10
131-11-3	Dimethylphthalate	1	1	U	1	10
606-20-2	2,6-Dinitrotoluene	1	2	U	2	10
208-96-8	Acenaphthylene	1	2	U	2	10
99-09-2	3-Nitroaniline	1	0.9	U	0.9	10
83-32-9	Acenaphthene	1	2	U	2	10
51-28-5	2,4-Dinitrophenol	1	1	U	1	10
100-02-7	4-Nitrophenol	1	1	U	1	10
132-64-9	Dibenzofuran	1	2	U	2	10
121-14-2	2,4-Dinitrotoluene	1	2	U	2	10
84-66-2	Diethylphthalate	1	2	U	2	10
7005-72-3	4-Chlorophenyl-phenylether	1	2	U	2	10
86-73-7	Fluorene	1	1	U	1	10
100-01-6	4-Nitroaniline	1	2	U	2	10
534-52-1	2-Methyl-4,6-dinitrophenol	1	1	U	1	10
86-30-6	N-Nitrosodiphenylamine	1	2	U	2	10
101-55-3	4-Bromophenyl-phenylether	1	2	U	2	10

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW30S-030907

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-02	File ID:	5CP041.D
Sampled:	03/09/07 12:50	Prepared:	03/15/07 07:38	Analyzed:	03/22/07 17:27
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	7C15003	Sequence:	BA00466	Calibration:	0703009
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
118-74-1	Hexachlorobenzene	1	2	U	2	10
87-86-5	Pentachlorophenol	1	1	U	1	10
85-01-8	Phenanthrene	1	1	U	1	10
120-12-7	Anthracene	1	1	U	1	10
86-74-8	Carbazole	1	1	U	1	10
84-74-2	Di-n-butylphthalate	1	1	U	1	10
206-44-0	Fluoranthene	1	2	U	2	10
129-00-0	Pyrene	1	2	U	2	10
92-52-4	1,1'-Biphenyl	1	3	U	3	10
1912-24-9	Atrazine	1	1	U	1	10
85-68-7	Butylbenzylphthalate	1	1	U	1	10
100-52-7	Benzaldehyde	1	3	U	3	10
91-94-1	3,3'-Dichlorobenzidine	1	2	U	2	10
105-60-2	Caprolactam	1	2	U	2	10
56-55-3	Benzo(a)anthracene	1	1	U	1	10
117-81-7	Bis(2-ethylhexyl)phthalate	1	2	U	2	10
218-01-9	Chrysene	1	2	U	2	10
117-84-0	Di-n-octylphthalate	1	2	U	2	10
205-99-2	Benzo(b)fluoranthene	1	2	U	2	10
207-08-9	Benzo(k)fluoranthene	1	1	U	1	10
50-32-8	Benzo(a)pyrene	1	1	U	1	10
193-39-5	Indeno(1,2,3-cd)pyrene	1	3	U	3	10
53-70-3	Dibenzo(a,h)anthracene	1	3	U	3	10
191-24-2	Benzo(g,h,i)perylene	1	3	U	3	10
98-86-2	Acetophenone	1	2	U	2	10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	49.5	49	20 - 110	
Phenol-d5	100	33.1	33	10 - 94	
Nitrobenzene-d5	50.0	48.2	96	40 - 110	
2-Fluorobiphenyl	50.0	42.7	85	50 - 110	
2,4,6-Tribromophenol	100	78.1	78	40 - 125	
Terphenyl-d14	50.0	53.1	106	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	307079	4.86	357496	4.86	
Naphthalene-d8	1105857	6.06	1315401	6.06	
Acenaphthene-d10	755030	7.79	858277	7.79	
Phenanthrene-d10	1352430	9.28	1504620	9.28	
Chrysene-d12	1800970	11.93	2244664	11.93	
Perylene-d12	1679783	13.34	1981214	13.34	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW31D-030709

Laboratory: ENCO Jacksonville | SDG: BR006-020

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B702192-03 | File ID: 5CP040.D

Sampled: 03/09/07 14:30 | Prepared: 03/15/07 07:38 | Analyzed: 03/22/07 17:03

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 7C15003 | Sequence: BA00466 | Calibration: 0703009 | Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
108-95-2	Phenol	1	2	U	2	10
111-44-4	Bis(2-chloroethyl)ether	1	3	U	3	10
95-57-8	2-Chlorophenol	1	3	U	3	10
95-48-7	2-Methylphenol	1	2	U	2	10
39638-32-9	Bis(2-chloroisopropyl)ether	1	4	U	4	10
106-44-5	3 & 4-Methylphenol	1	2	U	2	10
621-64-7	N-Nitroso-di-n-propylamine	1	3	U	3	10
67-72-1	Hexachloroethane	1	3	U	3	10
98-95-3	Nitrobenzene	1	4	U	4	10
78-59-1	Isophorone	1	3	U	3	10
88-75-5	2-Nitrophenol	1	3	U	3	10
105-67-9	2,4-Dimethylphenol	1	2	U	2	10
111-91-1	Bis(2-chloroethoxy)methane	1	3	U	3	10
120-83-2	2,4-Dichlorophenol	1	2	U	2	10
91-20-3	Naphthalene	1	3	U	3	10
106-47-8	4-Chloroaniline	1	2	U	2	10
87-68-3	Hexachlorobutadiene	1	3	U	3	10
59-50-7	4-Chloro-3-methylphenol	1	1	U	1	10
91-57-6	2-Methylnaphthalene	1	2	U	2	10
77-47-4	Hexachlorocyclopentadiene	1	2	U	2	10
88-06-2	2,4,6-Trichlorophenol	1	2	U	2	10
95-95-4	2,4,5-Trichlorophenol	1	2	U	2	10
91-58-7	2-Chloronaphthalene	1	2	U	2	10
88-74-4	2-Nitroaniline	1	2	U	2	10
131-11-3	Dimethylphthalate	1	1	U	1	10
606-20-2	2,6-Dinitrotoluene	1	2	U	2	10
208-96-8	Acenaphthylene	1	2	U	2	10
99-09-2	3-Nitroaniline	1	0.9	U	0.9	10
83-32-9	Acenaphthene	1	2	U	2	10
51-28-5	2,4-Dinitrophenol	1	1	U	1	10
100-02-7	4-Nitrophenol	1	1	U	1	10
132-64-9	Dibenzofuran	1	2	U	2	10
121-14-2	2,4-Dinitrotoluene	1	2	U	2	10
84-66-2	Diethylphthalate	1	2	U	2	10
7005-72-3	4-Chlorophenyl-phenylether	1	2	U	2	10
86-73-7	Fluorene	1	1	U	1	10
100-01-6	4-Nitroaniline	1	2	U	2	10
534-52-1	2-Methyl-4,6-dinitrophenol	1	1	U	1	10
86-30-6	N-Nitrosodiphenylamine	1	2	U	2	10
101-55-3	4-Bromophenyl-phenylether	1	2	U	2	10

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-MW31D-030709

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-03	File ID:	5CP040.D
Sampled:	03/09/07 14:30	Prepared:	03/15/07 07:38	Analyzed:	03/22/07 17:03
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Batch:	7C15003	Sequence:	BA00466	Calibration:	0703009
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
118-74-1	Hexachlorobenzene	1	2	U	2	10
87-86-5	Pentachlorophenol	1	1	U	1	10
85-01-8	Phenanthrene	1	1	U	1	10
120-12-7	Anthracene	1	1	U	1	10
86-74-8	Carbazole	1	1	U	1	10
84-74-2	Di-n-butylphthalate	1	1	U	1	10
206-44-0	Fluoranthene	1	2	U	2	10
129-00-0	Pyrene	1	2	U	2	10
92-52-4	1,1'-Biphenyl	1	3	U	3	10
1912-24-9	Atrazine	1	1	U	1	10
85-68-7	Butylbenzylphthalate	1	1	U	1	10
100-52-7	Benzaldehyde	1	3	U	3	10
91-94-1	3,3'-Dichlorobenzidine	1	2	U	2	10
105-60-2	Caprolactam	1	2	U	2	10
56-55-3	Benzo(a)anthracene	1	1	U	1	10
117-81-7	Bis(2-ethylhexyl)phthalate	1	2	U	2	10
218-01-9	Chrysene	1	2	U	2	10
117-84-0	Di-n-octylphthalate	1	2	U	2	10
205-99-2	Benzo(b)fluoranthene	1	2	U	2	10
207-08-9	Benzo(k)fluoranthene	1	1	U	1	10
50-32-8	Benzo(a)pyrene	1	1	U	1	10
193-39-5	Indeno(1,2,3-cd)pyrene	1	3	U	3	10
53-70-3	Dibenzo(a,h)anthracene	1	3	U	3	10
191-24-2	Benzo(g,h,i)perylene	1	3	U	3	10
98-86-2	Acetophenone	1	2	U	2	10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	51.6	52	20 - 110	
Nitrobenzene-d5	50.0	48.2	96	40 - 110	
2-Fluorobiphenyl	50.0	42.0	84	50 - 110	
2,4,6-Tribromophenol	100	81.3	81	40 - 125	
Terphenyl-d14	50.0	52.0	104	50 - 135	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	311188	4.86	357496	4.86	
Naphthalene-d8	1140825	6.06	1315401	6.06	
Acenaphthene-d10	784202	7.79	858277	7.79	
Phenanthrene-d10	1416399	9.28	1504620	9.28	
Chrysene-d12	1872337	11.93	2244664	11.93	
Perylene-d12	1719809	13.34	1981214	13.34	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW29S-030907

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-01	File ID:	9CPA008
Sampled:	03/09/07 11:10	Prepared:	03/13/07 08:24	Analyzed:	03/21/07 13:26
Solids:		Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Batch:	7C13003	Sequence:	BA00456	Calibration:	0703005
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
319-84-6	alpha-BHC	1	0.001	U	0.001	0.050
58-89-9	gamma-BHC	1	0.002	U	0.002	0.050
319-85-7	beta-BHC	1	0.003	IP	0.002	0.050
319-86-8	delta-BHC	1	0.062	V	0.001	0.050
76-44-8	Heptachlor	1	0.001	IP	0.001	0.050
309-00-2	Aldrin	1	0.002	U	0.002	0.050
1024-57-3	Heptachlor epoxide	1	0.001	U	0.001	0.050
NA	Chlordane-gamma	1	0.001	U	0.001	0.050
NA	Chlordane-alpha	1	0.001	U	0.001	0.050
72-55-9	4,4'-DDE	1	0.002	U	0.002	0.050
959-98-8	Endosulfan I	1	0.002	U	0.002	0.050
60-57-1	Dieldrin	1	0.004	IP	0.0008	0.050
72-20-8	Endrin	1	0.002	U	0.002	0.050
72-54-8	4,4'-DDD	1	0.0004	U	0.0004	0.050
33213-65-9	Endosulfan II	1	0.003	I	0.002	0.050
50-29-3	4,4'-DDT	1	0.002	IP	0.002	0.050
7421-93-4	Endrin aldehyde	1	0.009	U	0.009	0.050
72-43-5	Methoxychlor	1	0.003	U	0.003	0.050
1031-07-8	Endosulfan sulfate	1	0.002	U	0.002	0.050
53494-70-5	Endrin ketone	1	0.003	U	0.003	0.050
8001-35-2	Toxaphene	1	0.050	U	0.050	0.050

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.73	73	25 - 140	
DBC	1.00	0.88	88	55 - 150	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW30S-030907

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B702192-02 File ID: 9CPA009

Sampled: 03/09/07 12:50 Prepared: 03/13/07 08:24 Analyzed: 03/21/07 13:52

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 7C13003 Sequence: BA00456 Calibration: 0703005 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
319-84-6	alpha-BHC	1	0.001	U	0.001	0.050
58-89-9	gamma-BHC	1	0.002	U	0.002	0.050
319-85-7	beta-BHC	1	0.004	IP	0.002	0.050
319-86-8	delta-BHC	1	0.061	V	0.001	0.050
76-44-8	Heptachlor	1	0.002	IP	0.001	0.050
309-00-2	Aldrin	1	0.002	U	0.002	0.050
1024-57-3	Heptachlor epoxide	1	0.001	U	0.001	0.050
NA	Chlordane-gamma	1	0.001	U	0.001	0.050
NA	Chlordane-alpha	1	0.001	U	0.001	0.050
60-57-1	Dieldrin	1	0.009	IP	0.0008	0.050
72-20-8	Endrin	1	0.002	U	0.002	0.050
72-54-8	4,4'-DDD	1	0.004	I	0.0004	0.050
50-29-3	4,4'-DDT	1	0.002	U	0.002	0.050
7421-93-4	Endrin aldehyde	1	0.009	U	0.009	0.050
72-43-5	Methoxychlor	1	0.003	U	0.003	0.050
1031-07-8	Endosulfan sulfate	1	0.002	U	0.002	0.050
53494-70-5	Endrin ketone	1	0.003	U	0.003	0.050
8001-35-2	Toxaphene	1	0.050	U	0.050	0.050
72-55-9	4,4'-DDE	1	0.006	IP	0.002	0.050
959-98-8	Endosulfan I	1	0.002	U	0.002	0.050
33213-65-9	Endosulfan II	1	0.007	IP	0.002	0.050

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.72	72	25 - 140	
DBC	1.00	0.86	86	55 - 150	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-MW31D-030709

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B702192-03 File ID: 9CPB010

Sampled: 03/09/07 14:30 Prepared: 03/13/07 08:24 Analyzed: 03/21/07 14:18

Solids: Preparation: EPA 3510C Initial/Final: 500 mL / 5 mL

Batch: 7C13003 Sequence: BA00456 Calibration: 0703005 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
319-84-6	alpha-BHC	1	0.001	U	0.001	0.050
58-89-9	gamma-BHC	1	0.002	U	0.002	0.050
319-85-7	beta-BHC	1	0.002	U	0.002	0.050
319-86-8	delta-BHC	1	0.001	U	0.001	0.050
76-44-8	Heptachlor	1	0.001	U	0.001	0.050
309-00-2	Aldrin	1	0.002	U	0.002	0.050
1024-57-3	Heptachlor epoxide	1	0.001	U	0.001	0.050
NA	Chlordane-gamma	1	0.001	U	0.001	0.050
NA	Chlordane-alpha	1	0.001	U	0.001	0.050
72-55-9	4,4'-DDE	1	0.002	U	0.002	0.050
959-98-8	Endosulfan I	1	0.002	U	0.002	0.050
60-57-1	Dieldrin	1	0.0008	U	0.0008	0.050
72-20-8	Endrin	1	0.002	U	0.002	0.050
72-54-8	4,4'-DDD	1	0.0004	U	0.0004	0.050
33213-65-9	Endosulfan II	1	0.002	U	0.002	0.050
50-29-3	4,4'-DDT	1	0.002	U	0.002	0.050
7421-93-4	Endrin aldehyde	1	0.009	U	0.009	0.050
72-43-5	Methoxychlor	1	0.003	U	0.003	0.050
1031-07-8	Endosulfan sulfate	1	0.002	U	0.002	0.050
53494-70-5	Endrin ketone	1	0.003	U	0.003	0.050
8001-35-2	Toxaphene	1	0.050	U	0.050	0.050

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.71	71	25 - 140	
DBC	1.00	0.87	87	55 - 150	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-020

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/14/2007	3/15/2007	5	1	6
M	UG/L	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/14/2007	3/15/2007	5	1	6
M	UG/L	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/14/2007	3/15/2007	5	1	6
OS	%	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	%	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	%	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	UG/L	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	UG/L	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	UG/L	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OV	%	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	%	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	%	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	UG/L	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	UG/L	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	UG/L	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	%	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/13/2007	3/21/2007	4	8	12
PEST	%	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/13/2007	3/21/2007	4	8	12
PEST	%	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/13/2007	3/21/2007	4	8	12
PEST	UG/L	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/13/2007	3/21/2007	4	8	12
PEST	UG/L	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/13/2007	3/21/2007	4	8	12
PEST	UG/L	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/13/2007	3/21/2007	4	8	12

CASE NARRATIVE

Tetra Tech NUS, Inc / NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-020

Lab Sample ID	Client Sample ID
B702192-01	JAX47-MW29S-030907
B702192-02	JAX47-MW30S-030907
B702192-03	JAX47-MW31D-030907

Volatiles

Method: Samples were received into the laboratory in satisfactory condition. The samples were analyzed by SW846 Method 8260B.

Comments: The analyses for these samples were completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- Xylenes and Toluene were detected in the method blank, JAX47-MW29S-030907, JAX47-MW30S-030907 and JAX47-MW31D-030907 at a concentration above the Method Detection Limit but below the Method Reporting Limit. The sample results for these compounds at or below the MRL should be considered estimated.

- Matrix Spike, Matrix Spike Duplicate and Laboratory Control Standard was outside the (below) DoD QSM control limits for Bromomethane. This appears to be a random problem that illustrates an instrument problem during this particular analysis run. This appears to be a coelution of water with Bromomethane at that retention time. System maintenance did not correct this problem however it is being actively addressed.

Metals

Method: The samples were extracted by USEPA Method 3050 and analyzed by EPA Method 6010.
Comments: The analyses for these samples were satisfactorily completed within method holding time and met the corresponding specifications.

Semi-Volatiles

Method: Samples were received into the laboratory in satisfactory condition. The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8081c.

Comments: The analyses for these samples were satisfactorily completed within method holding time and met the corresponding specifications with the following note/exceptions:

- Low level positive recovery for Delta-BHC was detected in the laboratory method blank JAX47-MW29S-030907, JAX47-MW30S-030907 and JAX47-MW31D-030907. Sample results for this compound should be considered estimated.

Method: Samples were received into the laboratory in satisfactory condition. The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8270c.

Comments: The analyses for these samples were completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- Matrix Spike and Matrix Spike Duplicate were outside (above) the DoD QSM control limits for 2-methyl-4,6 dinitrophenol, n-nitrosodiphenylamine, fluoranthene, benzo(a)anthracene, chrysene and benzo(a) pyrene. Samples within this batch were non-detect for those specific compounds.

- Laboratory Control Standard was outside (above) the DoD QSM control limits for n-nitrosodiphenylamine. Samples within this batch were non-detect for this compound.

- Continuing Calibration Check Standard for 2-Methyl-4,6 dintrophenol was outside (above) the DoD QSM control limits. There was no detectible compound in the samples following this continuing calibration check.

- Initial Calibration Standard was above DoD QSM control limits for 2-methylphenol, benzidine, Bis(2-ethylhexyl) phthalate. Samples were clean for those compounds and accepted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.04.11 14:32:33 -04'00'

Christina M. Tompkins
Project Manager

B702192

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2548 | PAGE 1 OF 1

PROJECT NO: 112600417	FACILITY: NAS JAX-PSC 97	PROJECT MANAGER: Mark Petrison	PHONE NUMBER: 904-636-6125
SAMPLERS (SIGNATURE):		FIELD OPERATIONS LEADER: Chuck McTz	PHONE NUMBER: 904-636-6125
		CARRIER/WAYBILL NUMBER: Drop Off	LABORATORY NAME AND CONTACT: ENCO
			ADDRESS:
			CITY, STATE: Jacksonville, FL

STANDARD TAT ☒ 21 Days
RUSH TAT ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2007)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: 8081A - TCL PEST.	8270C Extended	8260B TCL VOCS	6010B (As) HNO3	8081A - TCL PEST - Soils	6010B(As) - Soils	COMMENTS
									G	G	G	P		G	G		
									—	—	—	HCl					
3-9	1110	JAX97-MW29S-030907		—	—	GW	G	6	✓	✓	✓	✓					
	1250	-MW30S-		—	—	GW	G	6	✓	✓	✓	✓					
	1430	-MW31D-		—	—	GW	G	17	✓	✓	✓	✓					* MS/MSD
		JAX97-SB114-01-030907		0	1	SO	G	1							✓		
		SB114-05		4.5	5			1							✓		
		SB115-01		0	1			1							✓		
		SB115-05		4.5	5			1							✓		
		SB116-01		0	1			1							✓		
		SB117-01		0	1			1							✓		
		SB119-01		0	1			1							✓		Cooled To 4°C
		SB119-05		4	5		4	4							✓	*	on ice
		SB120-01		0	1			1							✓		
		SB121-01		0	1			1					✓				

1. RELINQUISHED BY: Chuck M	DATE: 3-9-07	TIME:	1. RECEIVED BY:	DATE: 3-9-07	TIME: 1523
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY: Kathy Sansone	DATE: 3/9/07	TIME: 1B-23

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) | YELLOW (FIELD COPY) | PINK (FILE COPY) | 4/02R

ENCO Jacksonville
SDG: BR006-020
CLASS: GCMS
METHOD: EPA 8260B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260B

Laboratory: ENCO Jacksonville

SDG: BR006-020

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-MW29S-030907	B702192-01
JAX47-MW30S-030907	B702192-02
JAX47-MW31D-030709	B702192-03

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.04.11 14:21:50 -04'00'

Name: Christina Tompkins

Date: 4/6/07

Title: Project Manager

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C23017 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C23017-BLK1	11CQ050.D	03/22/07 09:00	
LCS	7C23017-BS1	11CQ051.D	03/22/07 09:00	
JAX47-MW31D-030709	7C23017-MS1	11CQ052.D	03/22/07 09:00	
JAX47-MW31D-030709	7C23017-MSD1	11CQ053.D	03/22/07 09:00	
JAX47-MW29S-030907	B702192-01	11CQ059.	03/22/07 16:00	
JAX47-MW30S-030907	B702192-02	11CQ060.D	03/22/07 16:00	
JAX47-MW31D-030709	B702192-03	11CQ055.D	03/22/07 16:00	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00473	Instrument:	JVGCMS2
Matrix:	Water	Calibration:	0704001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00473-TUN1	11CQ044.D	03/23/07 10:35
Calibration Check	BA00473-CCV1	11CQ046.D	03/23/07 11:07
Blank	7C23017-BLK1	11CQ050.D	03/23/07 12:45
LCS	7C23017-BS1	11CQ051.D	03/23/07 13:17
JAX47-MW31D-030709	7C23017-MS1	11CQ052.D	03/23/07 13:49
JAX47-MW31D-030709	7C23017-MSD1	11CQ053.D	03/23/07 14:22
JAX47-MW31D-030709	B702192-03	11CQ055.D	03/23/07 15:27
JAX47-MW29S-030907	B702192-01	11CQ059.D	03/23/07 17:36
JAX47-MW30S-030907	B702192-02	11CQ060.D	03/23/07 18:08

HOLDING TIME SUMMARY
EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-MW29S-030907	03/09/07 11:10	03/09/07 17:23	03/22/07 16:00	13.20	NA	03/23/07 17:36	14.00	14.00	
JAX47-MW30S-030907	03/09/07 12:50	03/09/07 17:23	03/22/07 16:00	13.13	NA	03/23/07 18:08	14.00	14.00	
JAX47-MW31D-030709	03/09/07 14:30	03/09/07 17:23	03/22/07 16:00	13.06	NA	03/23/07 15:27	14.00	14.00	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	7C23017-BLK1	File ID:	11CQ050.D
Prepared:	03/22/07 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	03/23/07 12:45	Instrument:	JVGCMS2		
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001

CAS NO.	COMPOUND	CONC. (ug/L)	Q
60-29-7	Diethyl ether	0.540	U
79-20-9	Methyl acetate	0.510	U
108-87-2	Methyl cyclohexane	0.550	U
110-82-7	Cyclohexane	0.450	U
75-71-8	Dichlorodifluoromethane	0.300	U
74-87-3	Chloromethane	0.300	U
75-01-4	Vinyl chloride	0.400	U
74-83-9	Bromomethane	0.600	U
75-00-3	Chloroethane	0.300	U
75-69-4	Trichlorofluoromethane	0.300	U
75-35-4	1,1-Dichloroethene	0.200	U
67-64-1	Acetone	2.00	U
75-15-0	Carbon disulfide	1.59	I
75-09-2	Methylene Chloride	2.00	U
1634-04-4	Methyl-tert-Butyl Ether	0.200	U
156-60-5	trans-1,2-Dichloroethene	0.200	U
75-34-3	1,1-Dichloroethane	0.200	U
78-93-3	2-Butanone	2.00	U
156-59-2	cis-1,2-Dichloroethene	0.200	U
67-66-3	Chloroform	0.200	U
71-55-6	1,1,1-Trichloroethane	0.300	U
56-23-5	Carbon Tetrachloride	0.300	U
107-06-2	1,2-Dichloroethane	0.100	U
71-43-2	Benzene	0.200	U
79-01-6	Trichloroethene	0.300	U
78-87-5	1,2-Dichloropropane	0.400	U
75-27-4	Bromodichloromethane	0.200	U
10061-01-5	cis-1,3-Dichloropropene	0.100	U
108-10-1	4-Methyl-2-pentanone	2.00	U
108-88-3	Toluene	0.230	I

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-020	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	7C23017-BLK1	File ID:	11CQ050.D
Prepared:	03/22/07 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	03/23/07 12:45	Instrument:	JVGCMS2		
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001

CAS NO.	COMPOUND	CONC. (ug/L)	Q
10061-02-6	trans-1,3-Dichloropropene	0.200	U
79-00-5	1,1,2-Trichloroethane	0.300	U
127-18-4	Tetrachloroethene	0.300	U
591-78-6	2-Hexanone	0.600	U
124-48-1	Dibromochloromethane	0.200	U
106-93-4	1,2-Dibromoethane	0.100	U
108-90-7	Chlorobenzene	0.200	U
100-41-4	Ethylbenzene	0.300	U
100-42-5	Styrene	0.100	U
75-25-2	Bromoform	0.200	U
98-82-8	Isopropylbenzene	0.100	U
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U
541-73-1	1,3-Dichlorobenzene	0.200	U
106-46-7	1,4-Dichlorobenzene	0.100	U
95-50-1	1,2-Dichlorobenzene	0.200	U
96-12-8	1,2-Dibromo-3-chloropropane	0.300	U
120-82-1	1,2,4-Trichlorobenzene	0.100	U
76-13-1	Freon 113	0.580	U
NA	Xylenes (Total)	0.410	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.5	101	85 - 115	
Toluene-d8	50.0	49.9	100	85 - 120	
4-Bromofluorobenzene	50.0	49.1	98	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	253688	8.78	301427	8.78	
1,4-Difluorobenzene	388719	9.42	458265	9.42	
Chlorobenzene-d5	310590	12.97	371867	12.97	
1,4-Dichlorobenzene-d4	150346	16.07	191713	16.07	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00473	Instrument:	JVGCMS2
Matrix:	Water	Calibration:	0704001

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (7C23017-BLK1)			Lab File ID: 11CQ050.D		Analyzed: 03/23/07 12:45			
Dibromofluoromethane	50.0	101	85 - 115	8.36	8.361666	-0.0017	+/-0.5	
Toluene-d8	50.0	100	85 - 120	11.01	11.01	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	98	75 - 120	14.59	14.59	0.0000	+/-0.5	
JAX47-MW31D-030709 (B702192-03)			Lab File ID: 11CQ055.D		Analyzed: 03/23/07 15:27			
Dibromofluoromethane	50.0	102	85 - 115	8.36	8.361666	-0.0017	+/-0.5	
Toluene-d8	50.0	100	85 - 120	11.01	11.01	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	98	75 - 120	14.59	14.59	0.0000	+/-0.5	
JAX47-MW29S030907 (B702192-01)			Lab File ID: 11CQ059.D		Analyzed: 03/23/07 17:36			
Dibromofluoromethane	50.0	101	85 - 115	8.36	8.361666	-0.0017	+/-0.5	
Toluene-d8	50.0	101	85 - 120	11.01	11.01	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	100	75 - 120	14.6	14.59	0.0100	+/-0.5	
JAX47-MW30S030907 (B702192-02)			Lab File ID: 11CQ060.D		Analyzed: 03/23/07 18:08			
Dibromofluoromethane	50.0	103	85 - 115	8.37	8.361666	0.0083	+/-0.5	
Toluene-d8	50.0	102	85 - 120	11.01	11.01	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	98	75 - 120	14.59	14.59	0.0000	+/-0.5	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

JAX47-MW31D-030709

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C23017	Laboratory ID:	7C23017-MS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	ND	24.8	124	30 - 155
Chloromethane	20.0	ND	19.0	95	40 - 125
Vinyl chloride	20.0	ND	21.5	107	50 - 145
Bromomethane	20.0	ND	1.72	9 *	30 - 145
Chloroethane	20.0	ND	20.6	103	60 - 135
Trichlorofluoromethane	20.0	ND	22.0	110	60 - 145
1,1-Dichloroethene	20.0	ND	19.2	96	70 - 130
Acetone	50.0	ND	38.1	76	40 - 140
Carbon disulfide	20.0	0.840	27.6	134	35 - 160
Methylene Chloride	20.0	ND	18.2	91	55 - 140
Methyl-tert-Butyl Ether	20.0	ND	19.8	99	65 - 125
trans-1,2-Dichloroethene	20.0	ND	20.3	101	60 - 140
1,1-Dichloroethane	20.0	ND	20.6	103	70 - 135
2-Butanone	50.0	ND	47.9	96	30 - 150
cis-1,2-Dichloroethene	20.0	2.18	20.8	93	70 - 125
Chloroform	20.0	ND	19.9	100	65 - 135
1,1,1-Trichloroethane	20.0	ND	21.4	107	65 - 130
Carbon Tetrachloride	20.0	ND	21.8	109	65 - 140
1,2-Dichloroethane	20.0	ND	19.7	99	70 - 130
Benzene	20.0	0.660	20.8	101	80 - 120
Trichloroethene	20.0	ND	20.8	104	70 - 125
1,2-Dichloropropane	20.0	ND	20.4	102	75 - 125
Bromodichloromethane	20.0	ND	19.4	97	75 - 120
cis-1,3-Dichloropropene	20.0	ND	19.5	98	70 - 130
4-Methyl-2-pentanone	50.0	ND	47.0	94	60 - 135
Toluene	20.0	0.240	19.7	97	75 - 120
trans-1,3-Dichloropropene	20.0	ND	22.3	111	55 - 140
1,1,2-Trichloroethane	20.0	ND	20.2	101	75 - 125
Tetrachloroethene	20.0	ND	22.4	112	45 - 150
2-Hexanone	50.0	ND	37.5	75	55 - 130
Dibromochloromethane	20.0	ND	20.4	102	60 - 136
1,2-Dibromoethane	20.0	ND	20.6	103	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8260B

JAX47-MW31D-030709

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C23017
Laboratory ID: 7C23017-MS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Chlorobenzene	20.0	ND	20.5	103	80 - 120
Ethylbenzene	20.0	ND	20.4	102	75 - 125
m,p-Xylenes	40.0	ND	43.0	108	75 - 130
o-Xylene	20.0	0.400	19.2	94	80 - 120
Styrene	20.0	0.750	19.1	92	65 - 135
Bromoform	20.0	ND	20.6	103	70 - 130
Isopropylbenzene	20.0	ND	22.4	112	75 - 125
1,1,2,2-Tetrachloroethane	20.0	ND	20.5	102	65 - 130
1,3-Dichlorobenzene	20.0	ND	21.8	109	75 - 125
1,4-Dichlorobenzene	20.0	ND	20.8	104	75 - 125
1,2-Dichlorobenzene	20.0	ND	20.6	103	70 - 120
1,2-Dibromo-3-chloropropane	20.0	ND	18.9	95	50 - 130
1,2,4-Trichlorobenzene	20.0	ND	19.4	97	65 - 135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	22.4	112	10	30	30 - 155
Chloromethane	20.0	18.3	91	4	30	40 - 125
Vinyl chloride	20.0	18.7	93	14	30	50 - 145
Bromomethane	20.0	2.50	12 *	37 *	30	30 - 145
Chloroethane	20.0	17.4	87	17	30	60 - 135
Trichlorofluoromethane	20.0	20.7	103	7	30	60 - 145
1,1-Dichloroethene	20.0	17.1	85	12	30	70 - 130
Acetone	50.0	33.3	67	13	30	40 - 140
Carbon disulfide	20.0	24.1	116	14	30	35 - 160
Methylene Chloride	20.0	16.2	81	12	30	55 - 140
Methyl-tert-Butyl Ether	20.0	18.8	94	5	30	65 - 125
trans-1,2-Dichloroethene	20.0	18.1	90	11	30	60 - 140
1,1-Dichloroethane	20.0	18.4	92	11	30	70 - 135
2-Butanone	50.0	44.8	90	7	30	30 - 150
cis-1,2-Dichloroethene	20.0	19.6	87	6	30	70 - 125
Chloroform	20.0	18.4	92	8	30	65 - 135

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

JAX47-MW31D-030709

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C23017
Laboratory ID: 7C23017-MSD1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	20.0	19.3	96	10	30	65 - 130
Carbon Tetrachloride	20.0	20.4	102	7	30	65 - 140
1,2-Dichloroethane	20.0	18.6	93	6	30	70 - 130
Benzene	20.0	18.9	91	10	30	80 - 120
Trichloroethene	20.0	18.5	92	12	30	70 - 125
1,2-Dichloropropane	20.0	18.4	92	10	30	75 - 125
Bromodichloromethane	20.0	17.6	88	10	30	75 - 120
cis-1,3-Dichloropropene	20.0	18.3	91	7	30	70 - 130
4-Methyl-2-pentanone	50.0	45.4	91	4	30	60 - 135
Toluene	20.0	17.7	87	10	30	75 - 120
trans-1,3-Dichloropropene	20.0	19.8	99	12	30	55 - 140
1,1,2-Trichloroethane	20.0	18.4	92	9	30	75 - 125
Tetrachloroethene	20.0	19.5	98	14	30	45 - 150
2-Hexanone	50.0	35.1	70	7	30	55 - 130
Dibromochloromethane	20.0	18.6	93	9	27	60 - 136
1,2-Dibromoethane	20.0	18.5	92	11	30	80 - 120
Chlorobenzene	20.0	17.9	90	14	30	80 - 120
Ethylbenzene	20.0	18.0	90	12	30	75 - 125
m,p-Xylenes	40.0	38.1	95	12	30	75 - 130
o-Xylene	20.0	17.4	85	10	30	80 - 120
Styrene	20.0	17.3	83	10	30	65 - 135
Bromoform	20.0	18.9	95	9	30	70 - 130
Isopropylbenzene	20.0	20.0	100	12	30	75 - 125
1,1,2,2-Tetrachloroethane	20.0	18.5	93	10	30	65 - 130
1,3-Dichlorobenzene	20.0	19.0	95	14	30	75 - 125
1,4-Dichlorobenzene	20.0	18.2	91	13	30	75 - 125
1,2-Dichlorobenzene	20.0	18.3	92	12	30	70 - 120
1,2-Dibromo-3-chloropropane	20.0	17.8	89	6	30	50 - 130
1,2,4-Trichlorobenzene	20.0	17.8	89	9	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C23017
Laboratory ID: 7C23017-BS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	23.3	117	30 - 155
Chloromethane	20.0	16.1	81	40 - 125
Vinyl chloride	20.0	19.4	97	50 - 145
Bromomethane	20.0	0.00	*	30 - 145
Chloroethane	20.0	16.3	82	60 - 135
Trichlorofluoromethane	20.0	20.4	102	60 - 145
1,1-Dichloroethene	20.0	17.2	86	70 - 130
Acetone	50.0	30.8	62	40 - 140
Carbon disulfide	20.0	23.6	118	35 - 160
Methylene Chloride	20.0	16.0	80	55 - 140
Methyl-tert-Butyl Ether	20.0	16.9	84	65 - 125
trans-1,2-Dichloroethene	20.0	17.4	87	60 - 140
1,1-Dichloroethane	20.0	18.4	92	70 - 135
2-Butanone	50.0	39.4	79	30 - 150
cis-1,2-Dichloroethene	20.0	16.6	83	70 - 125
Chloroform	20.0	17.6	88	65 - 135
1,1,1-Trichloroethane	20.0	18.2	91	65 - 130
Carbon Tetrachloride	20.0	19.1	96	65 - 140
1,2-Dichloroethane	20.0	17.0	85	70 - 130
Benzene	20.0	17.5	87	80 - 120
Trichloroethene	20.0	17.8	89	70 - 125
1,2-Dichloropropane	20.0	17.6	88	75 - 125
Bromodichloromethane	20.0	16.9	84	75 - 102
cis-1,3-Dichloropropene	20.0	16.6	83	70 - 130
4-Methyl-2-pentanone	50.0	39.4	79	60 - 135
Toluene	20.0	16.8	84	75 - 120
trans-1,3-Dichloropropene	20.0	18.2	91	55 - 140
1,1,2-Trichloroethane	20.0	17.1	86	75 - 125
Tetrachloroethene	20.0	18.8	94	45 - 150
2-Hexanone	50.0	29.3	59	55 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C23017	Laboratory ID:	7C23017-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	20.0	17.3	86	54 - 120
1,2-Dibromoethane	20.0	17.4	87	80 - 120
Chlorobenzene	20.0	17.4	87	80 - 120
Ethylbenzene	20.0	16.9	84	75 - 125
m,p-Xylenes	40.0	35.8	89	75 - 130
o-Xylene	20.0	16.5	83	80 - 120
Styrene	20.0	16.0	80	65 - 135
Bromoform	20.0	17.1	86	70 - 130
Isopropylbenzene	20.0	18.5	92	75 - 125
1,1,2,2-Tetrachloroethane	20.0	17.5	87	65 - 130
1,3-Dichlorobenzene	20.0	17.9	89	75 - 125
1,4-Dichlorobenzene	20.0	17.0	85	75 - 125
1,2-Dichlorobenzene	20.0	17.1	86	70 - 120
1,2-Dibromo-3-chloropropane	20.0	15.5	78	50 - 130
1,2,4-Trichlorobenzene	20.0	16.2	81	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00493	Instrument:	JVGCMS2
Calibration:	0704001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B7D0018	0.2*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL1	11CQ023.D	03/22/07 23:17
B7D0017	1.0*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL2	11CQ025.D	03/23/07 00:21
B7D0016	5.0*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL3	11CQ027.D	03/23/07 01:26
B7D0019	20*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL4	11CQ028.D	03/23/07 01:58
B7D0020	50*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL5	11CQ029.D	03/23/07 02:30
B7D0021	100*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL6	11CQ031.D	03/23/07 03:35
B7D0022	200*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL7	11CQ034.D	03/23/07 05:12
B7D0017	1.0*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL8	11CQ036.D	03/23/07 06:17
B7D0016	5.0*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL9	11CQ037.D	03/23/07 06:49
B7D0023	20*(1/5/10/20ppb) Virtual Calibration	BA00493-CALA	11CQ038.D	03/23/07 07:21
B7D0026	50*(1/5/10/20ppb) Virtual Calibration	BA00493-CALB	11CQ039.D	03/23/07 07:54
B7D0024	100*(1/5/10/20ppb) Virtual Calibration	BA00493-CALC	11CQ040.D	03/23/07 08:26
B7D0025	200*(1/5/10/20ppb) Virtual Calibration	BA00493-CALD	11CQ041.D	03/23/07 08:58

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Diethyl ether	0.2	0	1	0.6599666	5	0.6081891	20	0.6991731	50	0.6275947	100	0.6005462
Methyl acetate	0.2	0	1	1.458165	5	1.17722	20	1.282448	50	1.091129	100	1.064857
Methyl cyclohexane	0.2	0	1	1.336179	5	0.5585377	20	0.4829858	50	0.4279532	100	0.4213833
Cyclohexane	0.2	0	1	0.6480022	5	0.6119745	20	0.8276073	50	0.7911016	100	0.8002272
Dichlorodifluoromethane	0.2	0	1	1.275066	5	1.163719	20	1.346006	50	1.054371	100	1.123532
Chloromethane	0.2	0	1	1.344717	5	1.047717	20	1.154145	50	0.9510145	100	0.9857605
Vinyl chloride	0.2	0	1	1.001167	5	0.9798322	20	1.100254	50	0.9201588	100	0.9183412
Bromomethane	0.2	0	1	1.325702	5	1.100881	20	0.8549052	50	0.6018345	100	0.4952326
Chloroethane	0.2	0	1	0.640738	5	0.5037959	20	0.5599648	50	0.4366663	100	0.3875667
Trichlorofluoromethane	0.2	0	1	1.529097	5	1.381296	20	1.555307	50	1.318752	100	1.370947
Acrolein	1	0	5	0.1301559	25	0.1173561	100	0.119839	250	9.791756E-02	500	0.1119783
1,1-Dichloroethene	0.2	0	1	0.7736287	5	0.6613531	20	0.7491371	50	0.6480437	100	0.6342999
Acetone	1	0	5	0.674623	25	0.3359929	100	0.3254665	250	0.2552444	500	0.259916
Iodomethane	1	0	5	0.5850607	25	0.6047233	100	0.9812429	250	1.010667	500	0.9888326
Carbon disulfide	1	0	5	1.905079	25	1.759879	100	2.025983	250	1.623956	500	1.545647
Acetonitrile	2	0	10	0.2019639	50	0.1714117	200	0.1838295	500	0.1591428	1000	0.153026
3-Chloropropene	0.2	0	1	1.237037	5	1.127716	20	1.326874	50	1.209891	100	1.134963
Methylene Chloride	0.2	0	1	1.171446	5	0.8735463	20	0.9596965	50	0.8686422	100	0.7730327
Acrylonitrile	1	0.3265831	5	0.2809932	25	0.3008391	100	0.3320035	250	0.2683538	500	0.3040914
Methyl-tert-Butyl Ether	0.2	0	1	1.835472	5	1.888667	20	2.289984	50	2.20345	100	2.109765
trans-1,2-Dichloroethene	0.2	0	1	0.662744	5	0.6496183	20	0.7745722	50	0.6876076	100	0.6675464
1,1-Dichloroethane	0.2	0	1	1.267375	5	1.252087	20	1.436559	50	1.267852	100	1.200458
Vinyl acetate	1	0	5	1.310063	25	1.521373	100	1.856236	250	1.611739	500	1.519217
Isopropyl Ether	0.2	0	1	2.02968	5	2.18641	20	2.783884	50	2.640425	100	2.446745
Chloroprene	0.2	0	1	0.2905648	5	0.4210216	20	0.5720077	50	0.5662104	100	0.5535821
2-Butanone	1	0	5	8.165724E-02	25	0.0724275	100	8.584294E-02	250	7.432868E-02	500	7.642938E-02
cis-1,2-Dichloroethene	0.2	0	1	0.623646	5	0.6359067	20	0.7716319	50	0.7240791	100	0.6740633
2,2-Dichloropropane	0.2	0	1	0.8048217	5	0.7336544	20	0.8595874	50	0.7797212	100	0.7356217
Propionitrile	2	0	10	0.106633	50	0.1143067	200	0.1199387	500	0.1062823	1000	9.723792E-02
Methacrylonitrile	2	0	10	0.5999735	50	0.5979264	200	0.6623778	500	0.5785586	1000	0.5166304
Bromochloromethane	0.2	0	1	0.3439774	5	0.3508233	20	0.406891	50	0.3511535	100	0.3082346

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloroform	0.2	0	1	1.270153	5	1.270047	20	1.487107	50	1.317254	100	1.232051
1,1,1-Trichloroethane	0.2	0	1	0.9492494	5	0.9471935	20	1.094575	50	0.9815691	100	0.9592331
1,1-Dichloropropene	0.2	0	1	0.6734266	5	0.7080818	20	0.8978609	50	0.833884	100	0.8241521
Isobutyl alcohol	4	0	20	7.415811E-02	100	5.886101E-02	400	6.223744E-02	1000	5.305881E-02	2000	5.193938E-02
Carbon Tetrachloride	0.2	0	1	0.4872532	5	0.4882793	20	0.5528993	50	0.510864	100	0.4914191
1,2-Dichloroethane	0.2	0	1	0.6875036	5	0.6542401	20	0.7217699	50	0.6767219	100	0.620921
Benzene	0.2	0	1	1.647755	5	1.553099	20	1.792097	50	1.653535	100	1.471423
Trichloroethene	0.2	0	1	0.3392716	5	0.3515929	20	0.4105885	50	0.3746831	100	0.3588978
1,2-Dichloropropane	0.2	0	1	0.3442948	5	0.3510183	20	0.4187898	50	0.3892192	100	0.3485855
Methyl Methacrylate	0.2	0	1	0.1667169	5	0.2071364	20	0.3062594	50	0.3127189	100	0.3023692
1,4-Dioxane	4	0	20	3.075031E-03	100	3.355604E-03	400	4.465753E-03	1000	4.174206E-03	2000	4.482304E-03
Dibromomethane	0.2	0	1	0.31497	5	0.2989264	20	0.331587	50	0.3039885	100	0.2815107
Bromodichloromethane	0.2	0.5479518	1	0.5688467	5	0.5996312	20	0.702916	50	0.6637654	100	0.6010791
2-Chloroethyl Vinyl Ether	1	0	5	0	25	0	100	~~4.69393E-05~~	250	~~1.451435E-05~~	500	~~2.342052E-04~~
cis-1,3-Dichloropropene	0.2	0.4611143	1	0.4227658	5	0.4619872	20	0.610778	50	0.6208199	100	0.571098
4-Methyl-2-pentanone	1	0	5	4.138055E-02	25	5.135866E-02	100	6.617267E-02	250	6.094479E-02	500	6.119073E-02
Toluene	0.2	0	1	1.188818	5	0.9988101	20	1.133004	50	1.075006	100	1.001488
trans-1,3-Dichloropropene	0.2	0.4125624	1	0.4692702	5	0.5490455	20	0.6781252	50	0.6783633	100	0.634251
Ethyl Methacrylate	0.2	0	1	0.3339337	5	0.4696753	20	0.6556548	50	0.6647656	100	0.6633197
1,1,2-Trichloroethane	0.2	0	1	0.4189727	5	0.3998173	20	0.4653499	50	0.4306591	100	0.399636
1,3-Dichloropropane	0.2	0	1	0.6683859	5	0.7126955	20	0.810667	50	0.7938783	100	0.7285551
Tetrachloroethene	0.2	0	1	0.2929698	5	0.2870352	20	0.3144839	50	0.3027161	100	0.2915109
2-Hexanone	1	0	5	0.2613048	25	0.3149034	100	0.421475	250	0.3671444	500	0.3640758
Dibromochloromethane	0.2	0.432249	1	0.4967523	5	0.4869268	20	0.5674583	50	0.5605815	100	0.5184312
1,2-Dibromoethane	0.2	0	1	0.4333187	5	0.4232397	20	0.4909397	50	0.481921	100	0.4530501
Chlorobenzene	0.2	0	1	1.05642	5	1.018175	20	1.175656	50	1.123662	100	1.039341
1,1,1,2-Tetrachloroethane	0.2	0.3457992	1	0.4016883	5	0.4147503	20	0.4531546	50	0.4396245	100	0.4109396
Ethylbenzene	0.2	0	1	0.4419609	5	0.4785056	20	0.5491183	50	0.529378	100	0.5081161
m,p-Xylenes	0.4	0	2	0.4531093	10	0.5286404	40	0.6788267	100	0.6513232	200	0.6199867
o-Xylene	0.2	0	1	0.3724778	5	0.4680388	20	0.6437652	50	0.6417555	100	0.6163048
Styrene	0.2	0	1	0.5142095	5	0.8017483	20	1.154542	50	1.169369	100	1.121686

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Bromoform	0.2	0	1	0.3176864	5	0.346972	20	0.4010659	50	0.3946579	100	0.3832313
Isopropylbenzene	0.2	0	1	0.7114239	5	0.9447375	20	1.371314	50	1.342873	100	1.321662
1,1,2,2-Tetrachloroethane	0.2	0.5555042	1	0.5703836	5	0.6002543	20	0.6449879	50	0.6052086	100	0.5764726
Bromobenzene	0.2	0	1	0.4091206	5	0.4279787	20	0.5263265	50	0.5094821	100	0.4898065
1,2,3-Trichloropropane	0.2	0.5743349	1	0.6194712	5	0.6400417	20	0.7487969	50	0.7166022	100	0.7072489
trans-1,4-Dichloro-2-butene	0.2	0	1	0.0814093	5	0.1081112	20	0.1381221	50	0.1432821	100	0.1542463
n-Propyl Benzene	0.2	0	1	1.261931	5	1.383763	20	1.846383	50	1.778931	100	1.75496
2-Chlorotoluene	0.2	0	1	1.904239	5	2.253562	20	2.789094	50	2.644662	100	2.446791
1,3,5-Trimethylbenzene	0.2	0	1	1.268437	5	1.623901	20	2.383717	50	2.305369	100	2.221234
4-Chlorotoluene	0.2	0	1	1.598477	5	1.787329	20	2.397898	50	2.31837	100	2.182227
tert-Butylbenzene	0.2	0	1	1.050639	5	1.262757	20	1.878248	50	1.854769	100	1.761865
Pentachloroethane	0.2	0	1	0.5418567	5	0.5189801	20	0.6263976	50	0.6055525	100	0.5751669
1,2,4-Trimethylbenzene	0.2	0	1	1.247326	5	1.844387	20	2.48329	50	2.438547	100	2.300026
sec-Butylbenzene	0.2	0	1	1.494328	5	1.979117	20	2.745286	50	2.634515	100	2.611632
1,3-Dichlorobenzene	0.2	0	1	1.162177	5	1.223147	20	1.516497	50	1.456419	100	1.373367
4-Isopropyltoluene	0.2	0	1	1.040083	5	1.451042	20	2.084661	50	2.084263	100	2.0255
1,4-Dichlorobenzene	0.2	0	1	1.371883	5	1.403213	20	1.575263	50	1.529273	100	1.429887
n-Butyl Benzene	0.2	0	1	1.199474	5	1.38846	20	1.968393	50	1.968728	100	1.907837
1,2-Dichlorobenzene	0.2	0	1	1.245918	5	1.327428	20	1.573283	50	1.542594	100	1.442082
1,2-Dibromo-3-chloropropane	0.2	0	1	0.2170945	5	0.2147597	20	0.2432292	50	0.2529223	100	0.2493213
1,2,4-Trichlorobenzene	0.2	0	1	0.5323566	5	0.5395938	20	0.718949	50	0.7554703	100	0.7264668
Hexachlorobutadiene	0.2	0	1	0.2441874	5	0.2411668	20	0.2956893	50	0.3036592	100	0.2914134
Naphthalene	0.2	0	1	1.281104	5	1.576746	20	2.068545	50	2.203721	100	2.176603
1,2,3-Trichlorobenzene	0.2	0	1	0.5816163	5	0.5875577	20	0.7374257	50	0.7548649	100	0.7256364
Freon 113	0.2	0	1	0.5779248	5	0.509432	20	0.5912502	50	0.5063573	100	0.5161913
Dibromofluoromethane	50	~~0.6535854~~	50	0.6680298	50	0.6467246	50	0.6411054	50	0.5988984	50	0.6082578
Toluene-d8	50	~~1.081913~~	50	1.076136	50	1.091278	50	1.091083	50	1.06708	50	1.054295
4-Bromofluorobenzene	50	~~0.5127655~~	50	0.5292296	50	0.5299837	50	0.5341046	50	0.5282257	50	0.5293643
1,2-Dichloroethane-d4	50	~~0.7495643~~	50	0.7746072	50	0.7520263	50	0.7212169	50	0.6806909	50	0.7034945

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Diethyl ether	200	0.5897148	1	0	5	0						
Methyl acetate	200	1.046235	1	0	5	0						
Methyl cyclohexane	200	0.4272694	1	0	5	0						
Cyclohexane	200	0.800205	1	0	5	0						
Dichlorodifluoromethane	200	1.052043	1	0	5	0						
Chloromethane	200	1.093285	1	0	5	0						
Vinyl chloride	200	0.8782306	1	0	5	0						
Bromomethane	200	0.3980157	1	0	5	0						
Chloroethane	200	0.3334362	1	0	5	0						
Trichlorofluoromethane	200	1.279831	1	0	5	0						
Acrolein	1000	0.1034484	5	0	25	0						
1,1-Dichloroethene	200	0.6315467	1	0	5	0						
Acetone	1000	0.2488173	5	0	25	0	100	0	250	0	500	0
Iodomethane	1000	0.9303328	5	0	25	0	100	0	250	0	500	0
Carbon disulfide	1000	1.42005	5	0	25	0	100	0	250	0	500	0
Acetonitrile	2000	0.1509406	10	0	50	0						
3-Chloropropene	200	1.031107	1	0	5	0						
Methylene Chloride	200	0.7366789	1	0	5	0						
Acrylonitrile	1000	0.2864957	5	0	25	0						
Methyl-tert-Butyl Ether	200	2.135972	1	0	5	0						
trans-1,2-Dichloroethene	200	0.6880807	1	0	5	0						
1,1-Dichloroethane	200	1.221818	1	0	5	0						
Vinyl acetate	1000	1.349141	5	0	25	0	100	0	250	0	500	0
Isopropyl Ether	200	2.378169	1	0	5	0						
Chloroprene	200	0.5683706	1	0	5	0						
2-Butanone	1000	7.868514E-02	5	0	25	0	100	0	250	0	500	0
cis-1,2-Dichloroethene	200	0.7020307	1	0	5	0						
2,2-Dichloropropane	200	0.7288753	1	0	5	0						
Propionitrile	2000	8.533229E-02	10	0	50	0						
Methacrylonitrile	2000	0.4376608	10	0	50	0						
Bromochloromethane	200	0.2921828	1	0	5	0						

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloroform	200	1.25188	1	~~0~~	5	~~0~~						
1,1,1-Trichloroethane	200	0.9643811	1	~~0~~	5	~~0~~						
1,1-Dichloropropene	200	0.8316333	1	~~0~~	5	~~0~~						
Isobutyl alcohol	4000	5.077581E-02	20	~~0~~	100	~~0~~						
Carbon Tetrachloride	200	0.5029483	1	~~0~~	5	~~0~~						
1,2-Dichloroethane	200	0.6343819	1	~~0~~	5	~~0~~						
Benzene	200	1.383525	1	~~0~~	5	~~0~~						
Trichloroethene	200	0.363231	1	~~0~~	5	~~0~~						
1,2-Dichloropropane	200	0.3493329	1	~~0~~	5	~~0~~						
Methyl Methacrylate	200	0.3149606	1	~~0~~	5	~~0~~						
1,4-Dioxane	4000	4.596139E-03	20	~~0~~	100	~~0~~						
Dibromomethane	200	0.2933547	1	~~0~~	5	~~0~~						
Bromodichloromethane	200	0.6134719	1	~~0~~	5	~~0~~						
2-Chloroethyl Vinyl Ether	1000	~~1.183951E-05~~	5	3.156701E-02	25	3.858636E-02	100	4.603052E-02	250	4.639768E-02	500	~~0.1311723~~
cis-1,3-Dichloropropene	200	0.5868301	1	~~0~~	5	~~0~~						
4-Methyl-2-pentanone	1000	0.0619037	5	~~0~~	25	~~0~~	100	~~0~~	250	~~0~~	500	~~0~~
Toluene	200	1.00737	1	~~0~~	5	~~0~~						
trans-1,3-Dichloropropene	200	0.6262886	1	~~0~~	5	~~0~~						
Ethyl Methacrylate	200	0.6756294	1	~~0~~	5	~~0~~						
1,1,2-Trichloroethane	200	0.3991368	1	~~0~~	5	~~0~~						
1,3-Dichloropropane	200	0.7164508	1	~~0~~	5	~~0~~						
Tetrachloroethene	200	0.3016332	1	~~0~~	5	~~0~~						
2-Hexanone	1000	0.3403804	5	~~0~~	25	~~0~~	100	~~0~~	250	~~0~~	500	~~0~~
Dibromochloromethane	200	0.5196217	1	~~0~~	5	~~0~~						
1,2-Dibromoethane	200	0.4512044	1	~~0~~	5	~~0~~						
Chlorobenzene	200	1.036521	1	~~0~~	5	~~0~~						
1,1,1,2-Tetrachloroethane	200	0.4123512	1	~~0~~	5	~~0~~						
Ethylbenzene	200	0.5146271	1	~~0~~	5	~~0~~						
m,p-Xylenes	400	0.6215441	2	~~0~~	10	~~0~~						
o-Xylene	200	0.6299243	1	~~0~~	5	~~0~~						
Styrene	200	1.154193	1	~~0~~	5	~~0~~						

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Bromoform	200	0.401181	1	~~0~~	5	~~0~~						
Isopropylbenzene	200	1.352801	1	~~0~~	5	~~0~~						
1,1,2,2-Tetrachloroethane	200	0.5905993	1	~~0~~	5	~~0~~						
Bromobenzene	200	0.5074196	1	~~0~~	5	~~0~~						
1,2,3-Trichloropropane	200	0.7331356	1	~~0~~	5	~~0~~						
trans-1,4-Dichloro-2-butene	200	0.1587698	1	~~0~~	5	~~0~~						
n-Propyl Benzene	200	1.772821	1	~~0~~	5	~~0~~						
2-Chlorotoluene	200	2.384577	1	~~0~~	5	~~0~~						
1,3,5-Trimethylbenzene	200	2.189214	1	~~0~~	5	~~0~~						
4-Chlorotoluene	200	2.129627	1	~~0~~	5	~~0~~						
tert-Butylbenzene	200	1.781768	1	~~0~~	5	~~0~~						
Pentachloroethane	200	0.580633	1	~~0~~	5	~~0~~						
1,2,4-Trimethylbenzene	200	2.246461	1	~~0~~	5	~~0~~						
sec-Butylbenzene	200	2.576739	1	~~0~~	5	~~0~~						
1,3-Dichlorobenzene	200	1.370689	1	~~0~~	5	~~0~~						
4-Isopropyltoluene	200	2.021643	1	~~0~~	5	~~0~~						
1,4-Dichlorobenzene	200	1.416411	1	~~0~~	5	~~0~~						
n-Butyl Benzene	200	1.935316	1	~~0~~	5	~~0~~						
1,2-Dichlorobenzene	200	1.45463	1	~~0~~	5	~~0~~						
1,2-Dibromo-3-chloropropane	200	0.262035	1	~~0~~	5	~~0~~						
1,2,4-Trichlorobenzene	200	0.7751166	1	~~0~~	5	~~0~~						
Hexachlorobutadiene	200	0.3068499	1	~~0~~	5	~~0~~						
Naphthalene	200	2.312193	1	~~0~~	5	~~0~~						
1,2,3-Trichlorobenzene	200	0.773337	1	~~0~~	5	~~0~~						
Freon 113	200	0.5229285	1	~~0~~	5	~~0~~						
Dibromofluoromethane	50	0.6247742	50	~~0.6231064~~	50	~~0.617207~~	50	~~0.6381836~~	50	~~0.6218913~~	50	~~0.6305392~~
Toluene-d8	50	1.081929	50	~~1.069526~~	50	~~1.081384~~	50	~~1.091128~~	50	~~1.097195~~	50	~~1.097349~~
4-Bromofluorobenzene	50	0.5479724	50	~~0.5333645~~	50	~~0.528745~~	50	~~0.5201453~~	50	~~0.5171087~~	50	~~0.5201065~~
1,2-Dichloroethane-d4	50	0.7018993	50	~~0.6927873~~	50	~~0.6925174~~	50	~~0.7059997~~	50	~~0.6995529~~	50	~~0.7072659~~

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diethyl ether	0.6308641	6.593212	5.615	9.682867E-02			15.4	
Methyl acetate	1.186676	13.41231	6.665	8.110162E-02			15.4	
Methyl cyclohexane	0.6090514	59.11831	9.443333	0.1291879	0.9997742		0.99	
Cyclohexane	0.7465196	12.29725	8.168333	4.915513E-02			15.4	
Dichlorodifluoromethane	1.169123	10.22805	4.016667	0.1288163			15.4	
Chloromethane	1.096106	12.95065	4.356667	0.2373563			SPCC (0.1)	
Vinyl chloride	0.9663306	8.217423	4.471666	9.072885E-02			CCC (20)	
Bromomethane	0.7960952	45.7604	4.941667	0.1529535		0.9962989	0.99	
Chloroethane	0.477028	23.83665	5.11	0.1227585	0.9898367		0.99	
Trichlorofluoromethane	1.405872	7.972634	5.275	0.104171			15.4	
Acrolein	0.1134492	10.26897	6.275	8.921406E-02			15.4	
1,1-Dichloroethene	0.6830015	9.09583	5.901667	6.909637E-02			CCC (20)	
Acetone	0.35001	46.68649	6.576667	7.721815E-02	0.9992124		0.99	
Iodomethane	0.8501432	23.47362	6.115	8.848005E-02	0.9984951		0.99	
Carbon disulfide	1.713432	13.27806	6	0			15.4	
Acetonitrile	0.1700524	11.71447	7.116667	0.114022			15.4	
3-Chloropropene	1.177931	8.709392	6.413333	7.826527E-02			15.4	
Methylene Chloride	0.8971738	17.38767	6.533333	7.949986E-02	0.9978171		0.99	
Acrylonitrile	0.2999085	7.811899	7.424286	7.216728E-02			15.4	
Methyl-tert-Butyl Ether	2.077218	8.603915	6.778334	6.071458E-02			15.4	
trans-1,2-Dichloroethene	0.6883615	6.504403	6.701667	5.768975E-02			15.4	
1,1-Dichloroethane	1.274358	6.576382	7.361667	5.458539E-02			SPCC (0.1)	
Vinyl acetate	1.527962	12.90343	7.538333	5.663212E-02			15.4	
Isopropyl Ether	2.410885	11.58254	7.123333	7.150524E-02			15.4	
Chloroprene	0.4952929	23.38603	7.33	1.997676E-02	0.9998148		0.99	
2-Butanone	7.822848E-02	6.315436	8.483333	6.010157E-02			15.4	
cis-1,2-Dichloroethene	0.6885596	8.096627	7.915	6.895888E-02			15.4	
2,2-Dichloropropane	0.7737136	6.702015	8.048333	0.0549021			15.4	
Propionitrile	0.1049552	11.75562	8.848334	4.928121E-02			15.4	
Methacrylonitrile	0.5655213	13.81678	8.86	7.263549E-02			15.4	
Bromochloromethane	0.3422104	11.68724	8.14	5.734557E-03			15.4	
Chloroform	1.304749	7.180928	8.16	2.450681E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	0.9827002	5.717307	8.44	2.511571E-02			15.4	
1,1-Dichloropropene	0.7948398	10.76683	8.55	1.962421E-02			15.4	
Isobutyl alcohol	5.850509E-02	15.12639	6.665	8.110162E-02	0.9995748		0.99	
Carbon Tetrachloride	0.5056105	4.932384	8.37	1.822986E-02			15.4	
1,2-Dichloroethane	0.6659231	5.561346	9.041667	4.021958E-02			15.4	
Benzene	1.583572	9.195485	8.836667	5.370767E-02			15.4	
Trichloroethene	0.3663775	6.733161	9.428334	4.159216E-02			15.4	
1,2-Dichloropropane	0.3668734	8.26571	10.04	1.396751E-02			CCC (20)	
Methyl Methacrylate	0.2683602	24.04105	10.13833	4.507043E-02	0.9996192		0.99	
1,4-Dioxane	4.02484E-03	16.111	10.27333	0.0505845	0.9995016		0.99	
Dibromomethane	0.3040562	5.746017	9.93	1.514993E-02			15.4	
Bromodichloromethane	0.6139517	8.70999	10.05571	0.0507233			15.4	
2-Chloroethyl Vinyl Ether	4.545539E-02	27.20012	10.63	1.905026E-03	0.9954279		0.99	
cis-1,3-Dichloropropene	0.5336276	15.39051	10.77714	4.807222E-02	0.9994724		0.99	
4-Methyl-2-pentanone	5.715852E-02	15.97626	11.46667	5.046694E-02	0.9998585		0.99	
Toluene	1.067416	7.466194	11.07333	4.429919E-02			CCC (20)	
trans-1,3-Dichloropropene	0.5782723	18.08512	11.52714	3.482191E-02	0.9994922		0.99	
Ethyl Methacrylate	0.5771631	24.70633	11.62333	4.349847E-02	0.9999306		0.99	
1,1,2-Trichloroethane	0.4189286	6.244472	11.74667	4.273051E-02			15.4	
1,3-Dichloropropane	0.7384388	7.277984	12.115	4.011408E-02			15.4	
Tetrachloroethene	0.2983915	3.330728	11.55	2.543281E-02			15.4	
2-Hexanone	0.3448806	15.6869	12.49	1.449083E-02	0.9983389		0.99	
Dibromochloromethane	0.5117172	9.010577	12	0			15.4	
1,2-Dibromoethane	0.4556123	5.816289	12.36167	3.266172E-02			15.4	
Chlorobenzene	1.074962	5.708255	12.99167	3.412897E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4111868	8.277007	13.04714	3.680382E-02			15.4	
Ethylbenzene	0.5036177	7.591007	12.97167	0.0268103			CCC (20)	
m,p-Xylenes	0.5922384	14.33125	13.15	0.0178973			15.4	
o-Xylene	0.5620444	20.34179	13.74667	3.866188E-02	0.9997771		0.99	
Styrene	0.985958	27.41326	13.81	9.251617E-03	0.9997274		0.99	
Bromoform	0.3741324	9.169833	13.90167	3.152414E-02			SPCC (0.1)	
Isopropylbenzene	1.174135	23.7181	14.15	6.929054E-03	0.999837		0.99	

INITIAL CALIBRATION DATA (Continued)
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5919158	4.921902	14.80143	2.702876E-02			SPCC (0.3)	
Bromobenzene	0.4783557	10.05926	14.78	1.210796E-02			15.4	
1,2,3-Trichloropropane	0.6770902	9.723125	15.05857	3.005425E-02			15.4	
trans-1,4-Dichloro-2-butene	0.1306568	22.94957	15.07333	3.454561E-02	0.9995101		0.99	
n-Propyl Benzene	1.633131	15.02529	14.72667	3.375929E-02			15.4	
2-Chlorotoluene	2.403821	12.90038	15.00167	0.0276984			15.4	
1,3,5-Trimethylbenzene	1.998645	22.39663	14.97833	3.036019E-02	0.9996201		0.99	
4-Chlorotoluene	2.068988	15.09324	15.23667	0.0355086	0.9992808		0.99	
tert-Butylbenzene	1.598341	21.97947	15.44167	2.581225E-02	0.9996968		0.99	
Pentachloroethane	0.5747645	6.890894	15.50167	2.590144E-02			15.4	
1,2,4-Trimethylbenzene	2.093339	22.55976	15.525	3.314315E-02	0.999314		0.99	
sec-Butylbenzene	2.34027	21.16088	15.66667	3.406565E-02	0.9998194		0.99	
1,3-Dichlorobenzene	1.350383	10.01161	15.98667	3.471362E-02			15.4	
4-Isopropyltoluene	1.784532	24.54941	15.82333	2.974702E-02	0.9998361		0.99	
1,4-Dichlorobenzene	1.454322	5.473875	16.08333	3.318314E-02			15.4	
n-Butyl Benzene	1.728035	19.80593	16.32667	2.008305E-02	0.9998531		0.99	
1,2-Dichlorobenzene	1.430989	8.748408	16.59833	1.253363E-02			15.4	
1,2-Dibromo-3-chloropropane	0.2398937	8.150489	17.57667	3.026544E-02			15.4	
1,2,4-Trichlorobenzene	0.6746589	16.20456	18.45167	2.254817E-02	0.999116		0.99	
Hexachlorobutadiene	0.2804943	10.63126	18.36667	3.304899E-02			15.4	
Naphthalene	1.936485	21.24913	18.92667	0.0259179	0.9992655		0.99	
1,2,3-Trichlorobenzene	0.6934063	12.37963	19.19667	2.350721E-02			15.4	
Freon 113	0.5373473	6.936882	5.903333	8.686165E-02			15.4	
Dibromofluoromethane	0.6312984	4.073466	8.361666	5.049555E-02			15.4	
Toluene-d8	1.076967	1.339811	11.01	1.721084E-02			15.4	
4-Bromofluorobenzene	0.5331467	1.415096	14.59	8.963318E-03			15.4	
1,2-Dichloroethane-d4	0.7223225	4.844292	8.97	1.808052E-02			15.4	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	11CQ044.D	Injection Date:	03/23/07
Instrument ID:	JVGCMS2	Injection Time:	10:35
Sequence:	BA00473	Lab Sample ID:	BA00473-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.5	PASS
75	30 - 60% of 95	49	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.13	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	80.8	PASS
175	5 - 9% of 174	7.32	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	6.42	PASS

CONTINUING CALIBRATION CHECK
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS2	Calibration:	0704001
Lab File ID:	11CQ046.D	Calibration Date:	03/23/07 12:15
Sequence:	BA00473	Injection Date:	03/23/07
Lab Sample ID:	BA00473-CCV1	Injection Time:	11:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Dichlorodifluoromethane	A	50.0	46.4	1.169123	1.08455		-7.2		
Chloromethane	A	50.0	49.4	1.096106	1.08274	0.1	-1.2		
Vinyl chloride	A	50.0	49.8	0.9663306	0.962561		-0.4	20	
Bromomethane	Q	50.0	30.2	0.7960952	0.399095		-39.6	20	*
Chloroethane	L	50.0	59.8	0.477028	0.453211		19.6		
Trichlorofluoromethane	A	50.0	50.1	1.405872	1.40769		0.1		
1,1-Dichloroethene	A	50.0	52.0	0.6830015	0.710587		4.0	20	
Acetone	L	250	283	0.35001	0.294767		13.2		
Carbon disulfide	A	250	252	1.713432	1.72992		1.0		
Methylene Chloride	L	50.0	59.8	0.8971738	0.933523		19.5		
Methyl-tert-Butyl Ether	A	50.0	58.7	2.077218	2.43826		17.4		
trans-1,2-Dichloroethene	A	50.0	55.6	0.6883615	0.765081		11.1		
1,1-Dichloroethane	A	50.0	53.8	1.274358	1.37233	0.1	7.7	20	
2-Butanone	A	250	264	7.822848E-02	0.0826986		5.7		
cis-1,2-Dichloroethene	A	50.0	56.4	0.6885596	0.777163		12.9		
Chloroform	A	50.0	54.0	1.304749	1.40818		7.9	20	
1,1,1-Trichloroethane	A	50.0	53.4	0.9827002	1.04986		6.8	20	
Carbon Tetrachloride	A	50.0	55.0	0.5056105	0.556602		10.1	20	
1,2-Dichloroethane	A	50.0	54.3	0.6659231	0.72347		8.6		
Benzene	A	50.0	54.8	1.583572	1.73521		9.6	20	
Trichloroethene	A	50.0	55.1	0.3663775	0.403987		10.3	20	
1,2-Dichloropropane	A	50.0	55.7	0.3668734	0.408515		11.4		
Bromodichloromethane	A	50.0	56.3	0.6139517	0.691517		12.6	20	
cis-1,3-Dichloropropene	L	50.0	52.6	0.5336276	0.617047		5.2	20	
4-Methyl-2-pentanone	L	250	267	5.715852E-02	0.0658427		6.9		
Toluene	A	50.0	54.4	1.067416	1.16032		8.7	20	
trans-1,3-Dichloropropene	L	50.0	54.5	0.5782723	0.693552		9.0	20	
1,1,2-Trichloroethane	A	50.0	56.3	0.4189286	0.471644		12.6	20	
Tetrachloroethene	A	50.0	54.5	0.2983915	0.325076		8.9	20	

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS2	Calibration:	0704001
Lab File ID:	11CQ046.D	Calibration Date:	03/23/07 12:15
Sequence:	BA00473	Injection Date:	03/23/07
Lab Sample ID:	BA00473-CCV1	Injection Time:	11:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone	L	250	282	0.3448806	0.400315		12.6	
Dibromochloromethane	A	50.0	57.9	0.5117172	0.592564		15.8	20
1,2-Dibromoethane	A	50.0	55.6	0.4556123	0.506192		11.1	20
Chlorobenzene	A	50.0	55.3	1.074962	1.18836	0.3	10.5	20
Ethylbenzene	A	50.0	56.3	0.5036177	0.566813		12.5	20
m,p-Xylenes	A	100	118	0.5922384	0.697611		17.8	20
o-Xylene	L	50.0	55.4	0.5620444	0.692543		10.8	20
Styrene	L	50.0	55.3	0.985958	1.26032		10.6	20
Bromoform	A	50.0	57.2	0.3741324	0.428062	0.1	14.4	20
Isopropylbenzene	L	50.0	54.2	1.174135	1.44658		8.4	20
1,1,2,2-Tetrachloroethane	A	50.0	54.5	0.5919158	0.644876	0.3	8.9	20
1,3-Dichlorobenzene	A	50.0	58.1	1.350383	1.56856		16.2	20
1,4-Dichlorobenzene	A	50.0	56.1	1.454322	1.63093		12.1	20
1,2-Dichlorobenzene	A	50.0	57.3	1.430989	1.63878		14.5	20
1,2-Dibromo-3-chloropropane	A	50.0	56.8	0.2398937	0.272272		13.5	20
1,2,4-Trichlorobenzene	L	50.0	53.3	0.6746589	0.798005		6.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00473	Instrument:	JVGCMS2
Matrix:	Water	Calibration:	0704001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (7C23017-BLK1)			Lab File ID: 11CQ050.D			Analyzed: 03/23/07 12:45			
Pentafluorobenzene	253688	8.78	301427	8.78	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	388719	9.42	458265	9.42	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	310590	12.97	371867	12.97	84	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	150346	16.07	191713	16.07	78	50 - 200	0.0000	+/-0.50	
JAX47-MW31D-030709 (B702192-03)			Lab File ID: 11CQ055.D			Analyzed: 03/23/07 15:27			
Pentafluorobenzene	249256	8.77	301427	8.78	83	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene	381735	9.42	458265	9.42	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	302911	12.97	371867	12.97	81	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	147070	16.07	191713	16.07	77	50 - 200	0.0000	+/-0.50	
JAX47-MW29S030907 (B702192-01)			Lab File ID: 11CQ059.D			Analyzed: 03/23/07 17:36			
Pentafluorobenzene	240629	8.78	301427	8.78	80	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	365923	9.43	458265	9.42	80	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	289168	12.97	371867	12.97	78	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	140918	16.06	191713	16.07	74	50 - 200	-0.0100	+/-0.50	
JAX47-MW30S030907 (B702192-02)			Lab File ID: 11CQ060.D			Analyzed: 03/23/07 18:08			
Pentafluorobenzene	239967	8.78	301427	8.78	80	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	364971	9.42	458265	9.42	80	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	292931	12.97	371867	12.97	79	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	140862	16.07	191713	16.07	73	50 - 200	0.0000	+/-0.50	

ENCO Jacksonville
SDG: BR006-020
CLASS: PEST
METHOD: EPA 8081A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-020

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-MW29S-030907	B702192-01
JAX47-MW30S-030907	B702192-02
JAX47-MW31D-030709	B702192-03

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.04.11 14:23:02 -04'00'

Name: Christina Tompkins

Date: 4/6/07

Title: Project Manager

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C13003 Batch Matrix: Water Preparation: EPA 3510C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C13003-BLK1	9CPB004	03/13/07 08:24	
Blank	7C13003-BLK1	9CPA004	03/13/07 08:24	
LCS	7C13003-BS1	9CPB005	03/13/07 08:24	
LCS	7C13003-BS1	9CPA005	03/13/07 08:24	
JAX47-MW31D-030709	7C13003-MS1	9CPB006	03/13/07 08:24	
JAX47-MW31D-030709	7C13003-MS1	9CPA006	03/13/07 08:24	
JAX47-MW31D-030709	7C13003-MSD1	9CPB007	03/13/07 08:24	
JAX47-MW31D-030709	7C13003-MSD1	9CPA007	03/13/07 08:24	
JAX47-MW29S-030907	B702192-01	9CPB008	03/13/07 08:24	
JAX47-MW29S-030907	B702192-01	9CPA008	03/13/07 08:24	
JAX47-MW30S-030907	B702192-02	9CPB009	03/13/07 08:24	
JAX47-MW30S-030907	B702192-02	9CPA009	03/13/07 08:24	
JAX47-MW31D-030709	B702192-03	9CPB010	03/13/07 08:24	
JAX47-MW31D-030709	B702192-03	9CPA010	03/13/07 08:24	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00456	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0703005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00456-IBL1	9CPA001	03/21/07 10:25
Instrument Blank	BA00456-IBL1	9CPB001	03/21/07 10:25
Performance Mix	BA00456-PEM1	9CPB002	03/21/07 10:51
Performance Mix	BA00456-PEM1	9CPA002	03/21/07 10:51
Calibration Check	BA00456-CCV1	9CPB003	03/21/07 11:17
Calibration Check	BA00456-CCV1	9CPA003	03/21/07 11:17
Blank	7C13003-BLK1	9CPB004	03/21/07 11:43
Blank	7C13003-BLK1	9CPA004	03/21/07 11:43
LCS	7C13003-BS1	9CPA005	03/21/07 12:09
LCS	7C13003-BS1	9CPB005	03/21/07 12:09
JAX47-MW31D-030709	7C13003-MS1	9CPA006	03/21/07 12:34
JAX47-MW31D-030709	7C13003-MS1	9CPB006	03/21/07 12:34
JAX47-MW31D-030709	7C13003-MSD1	9CPA007	03/21/07 13:00
JAX47-MW31D-030709	7C13003-MSD1	9CPB007	03/21/07 13:00
JAX47-MW29S-030907	B702192-01	9CPB008	03/21/07 13:26
JAX47-MW29S-030907	B702192-01	9CPA008	03/21/07 13:26
JAX47-MW30S-030907	B702192-02	9CPB009	03/21/07 13:52
JAX47-MW30S-030907	B702192-02	9CPA009	03/21/07 13:52
JAX47-MW31D-030709	B702192-03	9CPA010	03/21/07 14:18
JAX47-MW31D-030709	B702192-03	9CPB010	03/21/07 14:18
Calibration Check	BA00456-CCV2	9CPB011	03/21/07 14:43
Calibration Check	BA00456-CCV2	9CPA011	03/21/07 14:43

HOLDING TIME SUMMARY
EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-MW29S-030907	03/09/07 11:10	03/09/07 17:23	03/13/07 08:24	4.00	7.00	03/21/07 13:26	8.00	40.00	
JAX47-MW30S-030907	03/09/07 12:50	03/09/07 17:23	03/13/07 08:24	4.00	7.00	03/21/07 13:52	8.00	40.00	
JAX47-MW31D-030709	03/09/07 14:30	03/09/07 17:23	03/13/07 08:24	4.00	7.00	03/21/07 14:18	8.00	40.00	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	7C13003-BLK1	File ID:	9CPA004
Prepared:	03/13/07 08:24	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	03/21/07 11:43	Instrument:	JSVGCECD2		
Batch:	7C13003	Sequence:	BA00456	Calibration:	0703005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
319-84-6	alpha-BHC	0.001	U
58-89-9	gamma-BHC	0.002	U
319-85-7	beta-BHC	0.002	U
319-86-8	delta-BHC	0.061	
76-44-8	Heptachlor	0.001	U
309-00-2	Aldrin	0.002	U
1024-57-3	Heptachlor epoxide	0.001	U
NA	Chlordane-gamma	0.001	U
NA	Chlordane-alpha	0.001	U
72-55-9	4,4'-DDE	0.002	U
959-98-8	Endosulfan I	0.002	U
60-57-1	Dieldrin	0.0008	U
72-20-8	Endrin	0.002	U
72-54-8	4,4'-DDD	0.0004	U
33213-65-9	Endosulfan II	0.002	U
50-29-3	4,4'-DDT	0.002	U
7421-93-4	Endrin aldehyde	0.009	U
72-43-5	Methoxychlor	0.003	U
1031-07-8	Endosulfan sulfate	0.002	U
53494-70-5	Endrin ketone	0.003	U
8001-35-2	Toxaphene	0.050	U
319-84-6	alpha-BHC [2C]	0.001	U
58-89-9	gamma-BHC [2C]	0.002	U
319-85-7	beta-BHC [2C]	0.002	U
319-86-8	delta-BHC [2C]	0.053	
76-44-8	Heptachlor [2C]	0.001	U
309-00-2	Aldrin [2C]	0.002	U
1024-57-3	Heptachlor epoxide [2C]	0.001	U
NA	Chlordane-gamma [2C]	0.001	U
NA	Chlordane-alpha [2C]	0.001	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Water	Laboratory ID:	7C13003-BLK1	File ID:	9CPA004
Prepared:	03/13/07 08:24	Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL
Analyzed:	03/21/07 11:43	Instrument:	JSVGCECD2		
Batch:	7C13003	Sequence:	BA00456	Calibration:	0703005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
72-55-9	4,4'-DDE [2C]	0.002	U
959-98-8	Endosulfan I [2C]	0.002	U
60-57-1	Dieldrin [2C]	0.0008	U
72-20-8	Endrin [2C]	0.002	U
72-54-8	4,4'-DDD [2C]	0.0004	U
33213-65-9	Endosulfan II [2C]	0.002	U
50-29-3	4,4'-DDT [2C]	0.002	U
7421-93-4	Endrin aldehyde [2C]	0.009	U
72-43-5	Methoxychlor [2C]	0.003	U
1031-07-8	Endosulfan sulfate [2C]	0.002	U
53494-70-5	Endrin ketone [2C]	0.003	U
8001-35-2	Toxaphene [2C]	0.050	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	1.00	0.81	81	25 - 140	
2,4,5,6-TCMX [2C]	1.00	0.82	82	25 - 140	
DBC	1.00	0.89	89	55 - 150	
DBC [2C]	1.00	0.90	90	50 - 150	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00456	Instrument:	JSVGCECD2
Matrix:	Water	Calibration:	0703005

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (7C13003-BLK1)			Lab File ID: 9CPA004		Analyzed: 03/21/07 11:43			
2,4,5,6-TCMX	1.00	81	25 - 140	6.673501	6.670759	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	82	25 - 140	6.577322	6.574225	0.0031	+/-0.3	
DBC	1.00	89	55 - 150	13.9387	13.93769	0.0010	+/-0.3	
DBC [2C]	1.00	90	50 - 150	13.90238	13.90026	0.0021	+/-0.3	
JAX47-MW29S030907 (B702192-01)			Lab File ID: 9CPA008		Analyzed: 03/21/07 13:26			
2,4,5,6-TCMX	1.00	73	25 - 140	6.672654	6.670759	0.0019	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	74	25 - 140	6.576925	6.574225	0.0027	+/-0.3	
DBC	1.00	88	55 - 150	13.93622	13.93769	-0.0015	+/-0.3	
DBC [2C]	1.00	89	50 - 150	13.90041	13.90026	0.0002	+/-0.3	
JAX47-MW30S030907 (B702192-02)			Lab File ID: 9CPA009		Analyzed: 03/21/07 13:52			
2,4,5,6-TCMX	1.00	72	25 - 140	6.672938	6.670759	0.0022	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	72	25 - 140	6.577367	6.574225	0.0031	+/-0.3	
DBC	1.00	86	55 - 150	13.93713	13.93769	-0.0006	+/-0.3	
DBC [2C]	1.00	87	50 - 150	13.90038	13.90026	0.0001	+/-0.3	
JAX47-MW31D-030709 (B702192-03)			Lab File ID: 9CPA010		Analyzed: 03/21/07 14:18			
2,4,5,6-TCMX	1.00	71	25 - 140	6.673233	6.670759	0.0025	+/-0.3	
2,4,5,6-TCMX [2C]	1.00	73	25 - 140	6.578236	6.574225	0.0040	+/-0.3	
DBC	1.00	87	55 - 150	13.93845	13.93769	0.0008	+/-0.3	
DBC [2C]	1.00	89	50 - 150	13.90276	13.90026	0.0025	+/-0.3	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-MW31D-030709

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C13003
Laboratory ID: 7C13003-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	ND	0.78	78	60 - 130
gamma-BHC	1.00	ND	0.79	79	25 - 135
beta-BHC	1.00	ND	0.74	74	65 - 125
delta-BHC	1.00	ND	0.57	57	45 - 135
Heptachlor	1.00	ND	0.80	80	40 - 130
Aldrin	1.00	ND	0.74	74	25 - 140
Heptachlor epoxide	1.00	ND	0.78	78	60 - 130
Chlordane-gamma	1.00	ND	0.78	78	60 - 125
Chlordane-alpha	1.00	ND	0.78	78	65 - 125
4,4'-DDE	1.00	ND	0.79	79	35 - 140
Endosulfan I	1.00	ND	0.78	78	50 - 110
Dieldrin	1.00	ND	0.81	81	60 - 130
Endrin	1.00	ND	0.85	85	55 - 135
4,4'-DDD	1.00	ND	0.79	79	25 - 150
Endosulfan II	1.00	ND	0.80	80	30 - 130
4,4'-DDT	1.00	ND	0.90	90	45 - 140
Endrin aldehyde	1.00	ND	0.77	77	55 - 135
Methoxychlor	1.00	ND	0.85	85	55 - 150
Endosulfan sulfate	1.00	ND	0.79	79	55 - 135
Endrin ketone	1.00	ND	0.84	84	75 - 125
alpha-BHC [2C]	1.00	ND	0.78	78	60 - 130
gamma-BHC [2C]	1.00	ND	0.77	77	25 - 135
beta-BHC [2C]	1.00	ND	0.75	75	65 - 125
delta-BHC [2C]	1.00	ND	0.58	58	45 - 135
Heptachlor [2C]	1.00	ND	0.83	83	40 - 130
Aldrin [2C]	1.00	ND	0.74	74	25 - 140
Heptachlor epoxide [2C]	1.00	ND	0.78	78	60 - 125
Chlordane-gamma [2C]	1.00	ND	0.79	79	65 - 125
Chlordane-alpha [2C]	1.00	ND	0.79	79	65 - 125
4,4'-DDE [2C]	1.00	ND	0.81	81	35 - 140
Endosulfan I [2C]	1.00	ND	0.80	80	50 - 110
Dieldrin [2C]	1.00	ND	0.81	81	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-MW31D-030709

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C13003
Laboratory ID: 7C13003-MS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL
Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	1.00	ND	0.86	86	55 - 135
4,4'-DDD [2C]	1.00	ND	0.82	82	25 - 150
Endosulfan II [2C]	1.00	ND	0.80	80	30 - 130
4,4'-DDT [2C]	1.00	ND	0.77	77	45 - 140
Endrin aldehyde [2C]	1.00	ND	0.77	77	55 - 135
Methoxychlor [2C]	1.00	ND	0.86	86	55 - 150
Endosulfan sulfate [2C]	1.00	ND	0.79	79	55 - 135
Endrin ketone [2C]	1.00	ND	0.84	84	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	1.00	0.82	82	5	30	60 - 130
gamma-BHC	1.00	0.83	83	5	30	25 - 135
beta-BHC	1.00	0.78	78	5	30	65 - 125
delta-BHC	1.00	0.60	60	5	30	45 - 135
Heptachlor	1.00	0.84	84	4	30	40 - 130
Aldrin	1.00	0.77	77	4	30	25 - 140
Heptachlor epoxide	1.00	0.82	82	5	30	60 - 130
Chlordane-gamma	1.00	0.81	81	4	30	60 - 125
Chlordane-alpha	1.00	0.81	81	4	30	65 - 125
4,4'-DDE	1.00	0.82	82	4	30	35 - 140
Endosulfan I	1.00	0.82	82	5	30	50 - 110
Dieldrin	1.00	0.84	84	5	30	60 - 130
Endrin	1.00	0.89	89	4	30	55 - 135
4,4'-DDD	1.00	0.83	83	5	30	25 - 150
Endosulfan II	1.00	0.84	84	5	30	30 - 130
4,4'-DDT	1.00	0.95	95	6	30	45 - 140
Endrin aldehyde	1.00	0.80	80	5	30	55 - 135
Methoxychlor	1.00	0.90	90	6	30	55 - 150
Endosulfan sulfate	1.00	0.83	83	5	30	55 - 135
Endrin ketone	1.00	0.88	88	5	30	75 - 125
alpha-BHC [2C]	1.00	0.83	83	5	30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-MW31D-030709

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C13003	Laboratory ID:	7C13003-MSD1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	1.00	0.81	81	6	30	25 - 135
beta-BHC [2C]	1.00	0.79	79	5	30	65 - 125
delta-BHC [2C]	1.00	0.61	61	5	30	45 - 135
Heptachlor [2C]	1.00	0.86	86	5	30	40 - 130
Aldrin [2C]	1.00	0.77	77	4	30	25 - 140
Heptachlor epoxide [2C]	1.00	0.82	82	5	30	60 - 125
Chlordane-gamma [2C]	1.00	0.82	82	4	30	65 - 125
Chlordane-alpha [2C]	1.00	0.82	82	4	30	65 - 125
4,4'-DDE [2C]	1.00	0.84	84	4	30	35 - 140
Endosulfan I [2C]	1.00	0.84	84	4	30	50 - 110
Dieldrin [2C]	1.00	0.85	85	5	30	60 - 130
Endrin [2C]	1.00	0.90	90	5	30	55 - 135
4,4'-DDD [2C]	1.00	0.85	85	4	30	25 - 150
Endosulfan II [2C]	1.00	0.84	84	5	30	30 - 130
4,4'-DDT [2C]	1.00	0.81	81	5	30	45 - 140
Endrin aldehyde [2C]	1.00	0.81	81	5	30	55 - 135
Methoxychlor [2C]	1.00	0.91	91	6	30	55 - 150
Endosulfan sulfate [2C]	1.00	0.83	83	5	30	55 - 135
Endrin ketone [2C]	1.00	0.88	88	5	30	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C13003
Laboratory ID: 7C13003-BS1
Preparation: EPA 3510C
Initial/Final: 500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	1.00	0.78	78	60 - 130
gamma-BHC	1.00	0.79	79	25 - 135
beta-BHC	1.00	0.74	74	65 - 125
delta-BHC	1.00	0.56	56	45 - 135
Heptachlor	1.00	0.77	77	40 - 130
Aldrin	1.00	0.71	71	25 - 140
Heptachlor epoxide	1.00	0.77	77	60 - 130
Chlordane-gamma	1.00	0.75	75	60 - 125
Chlordane-alpha	1.00	0.76	76	65 - 125
4,4'-DDE	1.00	0.77	77	35 - 140
Endosulfan I	1.00	0.77	77	50 - 110
Dieldrin	1.00	0.79	79	60 - 130
Endrin	1.00	0.82	82	55 - 135
4,4'-DDD	1.00	0.78	78	25 - 150
Endosulfan II	1.00	0.78	78	30 - 130
4,4'-DDT	1.00	0.86	86	45 - 140
Endrin aldehyde	1.00	0.75	75	55 - 135
Methoxychlor	1.00	0.83	83	55 - 150
Endosulfan sulfate	1.00	0.76	76	55 - 135
Endrin ketone	1.00	0.82	82	75 - 125
alpha-BHC [2C]	1.00	0.79	79	60 - 130
gamma-BHC [2C]	1.00	0.79	79	25 - 135
beta-BHC [2C]	1.00	0.76	76	65 - 125
delta-BHC [2C]	1.00	0.57	57	45 - 135
Heptachlor [2C]	1.00	0.79	79	40 - 130
Aldrin [2C]	1.00	0.72	72	25 - 140
Heptachlor epoxide [2C]	1.00	0.78	78	60 - 125
Chlordane-gamma [2C]	1.00	0.77	77	65 - 125
Chlordane-alpha [2C]	1.00	0.77	77	65 - 125
4,4'-DDE [2C]	1.00	0.78	78	35 - 140

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C13003	Laboratory ID:	7C13003-BS1
Preparation:	EPA 3510C	Initial/Final:	500 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	1.00	0.80	80	50 - 110
Dieldrin [2C]	1.00	0.80	80	60 - 130
Endrin [2C]	1.00	0.83	83	55 - 135
4,4'-DDD [2C]	1.00	0.80	80	25 - 150
Endosulfan II [2C]	1.00	0.79	79	30 - 130
4,4'-DDT [2C]	1.00	0.75	75	45 - 140
Endrin aldehyde [2C]	1.00	0.75	75	55 - 135
Methoxychlor [2C]	1.00	0.84	84	55 - 150
Endosulfan sulfate [2C]	1.00	0.77	77	55 - 135
Endrin ketone [2C]	1.00	0.82	82	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00451	Instrument:	JSVGCECD2
Calibration:	0703005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B7C0150	608/8081 - .005 ppm curve standard	BA00451-CAL1	9COB004	03/20/07 13:10
B7C0150	608/8081 - .005 ppm curve standard	BA00451-CAL1	9COA004	03/20/07 13:10
B7C0151	608/8081 - .010 ppm curve standard	BA00451-CAL2	9COB005	03/20/07 13:36
B7C0151	608/8081 - .010 ppm curve standard	BA00451-CAL2	9COA005	03/20/07 13:36
B7C0152	608/8081 - .025 ppm curve standard	BA00451-CAL3	9COB006	03/20/07 14:02
B7C0152	608/8081 - .025 ppm curve standard	BA00451-CAL3	9COA006	03/20/07 14:02
B7C0153	608/8081 - .050 ppm curve standard	BA00451-CAL4	9COB007	03/20/07 14:28
B7C0153	608/8081 - .050 ppm curve standard	BA00451-CAL4	9COA007	03/20/07 14:28
B7C0154	608/8081 - .075 ppm curve standard	BA00451-CAL5	9COB008	03/20/07 14:53
B7C0154	608/8081 - .075 ppm curve standard	BA00451-CAL5	9COA008	03/20/07 14:53
B7C0155	608/8081 - .100 ppm curve standard	BA00451-CAL6	9COB009	03/20/07 15:19
B7C0155	608/8081 - .100 ppm curve standard	BA00451-CAL6	9COA009	03/20/07 15:19
B7C0156	608/8081 - .250 ppm curve standard	BA00451-CAL7	9COB010	03/20/07 15:45
B7C0156	608/8081 - .250 ppm curve standard	BA00451-CAL7	9COA010	03/20/07 15:45

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 03/01/07 12:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	4.606098E+07	0.01	5.51109E+07	0.025	6.098744E+07	0.05	6.802154E+07	0.075	6.642141E+07	0.1	8.127282E+07
gamma-BHC	0.005	4.335622E+07	0.01	5.031685E+07	0.025	5.441116E+07	0.05	5.997746E+07	0.075	5.828185E+07	0.1	7.130855E+07
beta-BHC	0.005	2.225324E+07	0.01	2.297192E+07	0.025	2.242657E+07	0.05	2.340404E+07	0.075	2.238444E+07	0.1	2.707516E+07
delta-BHC	0.005	3.57206E+07	0.01	4.209962E+07	0.025	4.662172E+07	0.05	5.303634E+07	0.075	5.199993E+07	0.1	6.437914E+07
Heptachlor	0.005	3.58118E+07	0.01	3.881325E+07	0.025	4.148396E+07	0.05	4.583788E+07	0.075	4.467529E+07	0.1	5.489376E+07
Aldrin	0.005	4.3964E+07	0.01	4.995355E+07	0.025	5.27996E+07	0.05	5.751792E+07	0.075	5.531399E+07	0.1	6.65608E+07
Isodrin	0.005	4.83735E+07	0.01	5.305353E+07	0.025	5.388512E+07	0.05	5.709532E+07	0.075	5.427432E+07	0.1	6.431795E+07
Heptachlor epoxide	0.005	4.333702E+07	0.01	4.6723E+07	0.025	4.716552E+07	0.05	4.95351E+07	0.075	4.688523E+07	0.1	5.563123E+07
Chlordane-gamma	0.005	4.014474E+07	0.01	4.378121E+07	0.025	4.517148E+07	0.05	4.893792E+07	0.075	4.702203E+07	0.1	5.691802E+07
Chlordane-alpha	0.005	3.935718E+07	0.01	4.2506E+07	0.025	4.338828E+07	0.05	4.652304E+07	0.075	4.459721E+07	0.1	5.390612E+07
4,4'-DDE	0.005	3.920916E+07	0.01	4.34802E+07	0.025	4.538436E+07	0.05	4.934062E+07	0.075	4.75452E+07	0.1	5.758875E+07
Endosulfan I	0.005	3.946224E+07	0.01	4.254957E+07	0.025	4.31138E+07	0.05	4.564234E+07	0.075	4.33122E+07	0.1	5.159597E+07
Dieldrin	0.005	3.836054E+07	0.01	4.251416E+07	0.025	4.462908E+07	0.05	4.769698E+07	0.075	4.571356E+07	0.1	5.539253E+07
Endrin	0.005	3.262744E+07	0.01	3.577533E+07	0.025	3.746774E+07	0.05	3.998742E+07	0.075	3.816771E+07	0.1	4.5994E+07
4,4'-DDD	0.005	3.004706E+07	0.01	3.429309E+07	0.025	3.630298E+07	0.05	4.022872E+07	0.075	3.859704E+07	0.1	4.68072E+07
Endosulfan II	0.005	3.493016E+07	0.01	3.750288E+07	0.025	3.763E+07	0.05	3.994548E+07	0.075	3.820545E+07	0.1	4.569209E+07
4,4'-DDT	0.005	2.322672E+07	0.01	2.58749E+07	0.025	2.837804E+07	0.05	3.127594E+07	0.075	3.148183E+07	0.1	3.913691E+07
Endrin aldehyde	0.005	2.615426E+07	0.01	2.702942E+07	0.025	2.733274E+07	0.05	2.869506E+07	0.075	2.74554E+07	0.1	3.305343E+07
Methoxychlor	0.005	1.415891E+07	0.01	1.473476E+07	0.025	1.464954E+07	0.05	1.526076E+07	0.075	1.465728E+07	0.1	1.769959E+07
Mirex	0.005	3.171244E+07	0.01	3.18795E+07	0.025	2.949904E+07	0.05	2.989248E+07	0.075	2.783893E+07	0.1	3.314408E+07
Endosulfan sulfate	0.005	2.853024E+07	0.01	3.03783E+07	0.025	3.019918E+07	0.05	3.197342E+07	0.075	3.068015E+07	0.1	3.713375E+07
Endrin ketone	0.005	3.445368E+07	0.01	3.751836E+07	0.025	3.794191E+07	0.05	4.068358E+07	0.075	3.884577E+07	0.1	4.696493E+07
alpha-BHC [2C]	0.005	3.747336E+07	0.01	4.571508E+07	0.025	5.141708E+07	0.05	5.72189E+07	0.075	5.534117E+07	0.1	6.729408E+07
gamma-BHC [2C]	0.005	3.521484E+07	0.01	4.181985E+07	0.025	4.602284E+07	0.05	5.070998E+07	0.075	4.90068E+07	0.1	5.967511E+07
beta-BHC [2C]	0.005	1.810946E+07	0.01	1.878253E+07	0.025	1.883721E+07	0.05	1.985859E+07	0.075	1.894245E+07	0.1	2.319489E+07
delta-BHC [2C]	0.005	2.789514E+07	0.01	3.36537E+07	0.025	3.842685E+07	0.05	4.374058E+07	0.075	4.289763E+07	0.1	5.300067E+07
Heptachlor [2C]	0.005	2.51351E+07	0.01	2.907122E+07	0.025	3.264516E+07	0.05	3.565214E+07	0.075	3.541681E+07	0.1	4.378743E+07
Aldrin [2C]	0.005	3.495176E+07	0.01	4.033846E+07	0.025	4.367556E+07	0.05	4.771426E+07	0.075	4.577856E+07	0.1	5.521993E+07
Isodrin [2C]	0.005	3.952616E+07	0.01	4.440999E+07	0.025	4.594128E+07	0.05	4.874278E+07	0.075	4.614627E+07	0.1	5.471957E+07
Heptachlor epoxide [2C]	0.005	3.619876E+07	0.01	3.97422E+07	0.025	4.079444E+07	0.05	4.31402E+07	0.075	4.065052E+07	0.1	4.818995E+07
Chlordane-gamma [2C]	0.005	3.35809E+07	0.01	3.720763E+07	0.025	3.887422E+07	0.05	4.226676E+07	0.075	4.041139E+07	0.1	4.897276E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 03/01/07 12:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	3.311316E+07	0.01	3.630851E+07	0.025	3.686644E+07	0.05	3.975378E+07	0.075	3.788379E+07	0.1	4.575593E+07
4,4'-DDE [2C]	0.005	3.111618E+07	0.01	3.562854E+07	0.025	3.815848E+07	0.05	4.181834E+07	0.075	4.031916E+07	0.1	4.901005E+07
Endosulfan I [2C]	0.005	3.25376E+07	0.01	3.593898E+07	0.025	3.63917E+07	0.05	3.892732E+07	0.075	3.686311E+07	0.1	4.401949E+07
Dieldrin [2C]	0.005	3.240806E+07	0.01	3.69742E+07	0.025	3.948282E+07	0.05	4.314608E+07	0.075	4.112331E+07	0.1	4.935506E+07
Endrin [2C]	0.005	2.701536E+07	0.01	3.061546E+07	0.025	3.234729E+07	0.05	3.508084E+07	0.075	3.333257E+07	0.1	4.006296E+07
4,4'-DDD [2C]	0.005	2.53495E+07	0.01	3.00144E+07	0.025	3.22074E+07	0.05	3.595618E+07	0.075	3.417315E+07	0.1	4.171188E+07
Endosulfan II [2C]	0.005	3.042296E+07	0.01	3.323524E+07	0.025	3.399309E+07	0.05	3.61709E+07	0.075	3.435011E+07	0.1	4.113865E+07
4,4'-DDT [2C]	0.005	2.041094E+07	0.01	2.323644E+07	0.025	2.592813E+07	0.05	2.89978E+07	0.075	2.921109E+07	0.1	3.616311E+07
Endrin aldehyde [2C]	0.005	2.262978E+07	0.01	2.376452E+07	0.025	2.393486E+07	0.05	2.600852E+07	0.075	2.490877E+07	0.1	3.001733E+07
Methoxychlor [2C]	0.005	1.299606E+07	0.01	1.370627E+07	0.025	1.352385E+07	0.05	1.396616E+07	0.075	1.358157E+07	0.1	1.630647E+07
Mirex [2C]	0.005	2.819732E+07	0.01	2.826346E+07	0.025	2.611618E+07	0.05	2.626222E+07	0.075	2.46192E+07	0.1	2.934099E+07
Endosulfan sulfate [2C]	0.005	2.575228E+07	0.01	2.767907E+07	0.025	2.793673E+07	0.05	2.9711E+07	0.075	2.851317E+07	0.1	3.438343E+07
Endrin ketone [2C]	0.005	3.166586E+07	0.01	3.483213E+07	0.025	3.551228E+07	0.05	3.808588E+07	0.075	3.625597E+07	0.1	4.346492E+07
2,4,5,6-TCMX	0.005	3.616898E+07	0.01	3.91421E+07	0.025	3.946635E+07	0.05	4.197744E+07	0.075	4.041527E+07	0.1	4.91776E+07
2,4,5,6-TCMX [2C]	0.005	3.03435E+07	0.01	3.359902E+07	0.025	3.435862E+07	0.05	3.652776E+07	0.075	3.503803E+07	0.1	4.256069E+07
DBC	0.005	2.886298E+07	0.01	3.087179E+07	0.025	3.114176E+07	0.05	3.336246E+07	0.075	3.189867E+07	0.1	3.854553E+07
DBC [2C]	0.005	2.575564E+07	0.01	2.787482E+07	0.025	2.839594E+07	0.05	3.039976E+07	0.075	2.911637E+07	0.1	3.508222E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 03/01/07 12:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.25	7.463612E+07										
gamma-BHC	0.25	6.867728E+07										
beta-BHC	0.25	2.630814E+07										
delta-BHC	0.25	6.354544E+07										
Heptachlor	0.25	5.24904E+07										
Aldrin	0.25	6.234456E+07										
Isodrin	0.25	5.877168E+07										
Heptachlor epoxide	0.25	5.124136E+07										
Chlordane-gamma	0.25	5.4841E+07										
Chlordane-alpha	0.25	5.173984E+07										
4,4'-DDE	0.25	5.51486E+07										
Endosulfan I	0.25	4.770548E+07										
Dieldrin	0.25	5.188692E+07										
Endrin	0.25	4.329344E+07										
4,4'-DDD	0.25	4.536368E+07										
Endosulfan II	0.25	4.279E+07										
4,4'-DDT	0.25	3.854369E+07										
Endrin aldehyde	0.25	3.123377E+07										
Methoxychlor	0.25	1.701215E+07										
Mirex	0.25	3.14138E+07										
Endosulfan sulfate	0.25	3.542434E+07										
Endrin ketone	0.25	4.464376E+07										
alpha-BHC [2C]	0.25	6.246912E+07										
gamma-BHC [2C]	0.25	5.609892E+07										
beta-BHC [2C]	0.25	2.228029E+07										
delta-BHC [2C]	0.25	5.0997E+07										
Heptachlor [2C]	0.25	4.222564E+07										
Aldrin [2C]	0.25	5.080468E+07										
Isodrin [2C]	0.25	4.906164E+07										
Heptachlor epoxide [2C]	0.25	4.33574E+07										
Chlordane-gamma [2C]	0.25	4.604336E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 03/01/07 12:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.25	4.289284E+07										
4,4'-DDE [2C]	0.25	4.602472E+07										
Endosulfan I [2C]	0.25	4.00536E+07										
Dieldrin [2C]	0.25	4.51736E+07										
Endrin [2C]	0.25	3.688044E+07										
4,4'-DDD [2C]	0.25	3.953169E+07										
Endosulfan II [2C]	0.25	3.766687E+07										
4,4'-DDT [2C]	0.25	3.481366E+07										
Endrin aldehyde [2C]	0.25	2.791914E+07										
Methoxychlor [2C]	0.25	1.522342E+07										
Mirex [2C]	0.25	2.73207E+07										
Endosulfan sulfate [2C]	0.25	3.192648E+07										
Endrin ketone [2C]	0.25	4.02832E+07										
2,4,5,6-TCMX	0.25	4.723768E+07										
2,4,5,6-TCMX [2C]	0.25	3.994948E+07										
DBC	0.25	3.703375E+07										
DBC [2C]	0.25	3.278951E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 03/01/07 12:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	6.464446E+07	18.30895	7.853278	1.567057E-02			20.4	
gamma-BHC	5.804705E+07	16.95896	8.458302	8.360265E-03			20.4	
beta-BHC	2.383193E+07	8.415742	8.642831	6.295003E-03			20.4	
delta-BHC	5.105754E+07	20.74855	8.946087	3.469959E-03	0.9968314		0.99	
Heptachlor	4.485805E+07	15.49079	9.295715	1.090292E-02			20.4	
Aldrin	5.549349E+07	13.65315	9.796349	1.469063E-02			20.4	
Isodrin	5.568163E+07	9.029071	10.34009	8.75688E-03			20.4	
Heptachlor epoxide	4.864549E+07	8.114774	10.78856	5.282156E-03			20.4	
Chlordane-gamma	4.811663E+07	12.45743	10.97888	1.478291E-02			20.4	
Chlordane-alpha	4.600252E+07	11.2552	11.18245	1.066674E-02			20.4	
4,4'-DDE	4.824241E+07	13.35855	11.31795	8.54927E-03			20.4	
Endosulfan I	4.47688E+07	8.838537	11.38706	1.331285E-02			20.4	
Dieldrin	4.659911E+07	12.25633	11.74955	7.96035E-03			20.4	
Endrin	3.904473E+07	11.56592	12.09409	1.086875E-02			20.4	
4,4'-DDD	3.880568E+07	15.33373	12.20803	5.869422E-03			20.4	
Endosulfan II	3.952801E+07	9.20322	12.42659	5.875771E-03			20.4	
4,4'-DDT	3.113115E+07	19.31206	12.61188	6.550197E-03			20.4	
Endrin aldehyde	2.870773E+07	8.773468	13.04477	8.09844E-03			20.4	
Methoxychlor	1.545328E+07	8.75569	13.31989	3.981606E-03			20.4	
Mirex	3.076861E+07	5.805778	13.49411	1.513388E-02			20.4	
Endosulfan sulfate	3.204563E+07	9.678879	13.67599	1.205014E-02			20.4	
Endrin ketone	4.015029E+07	10.80262	14.07093	6.747438E-03			20.4	
alpha-BHC [2C]	5.384697E+07	18.70831	7.846987	1.766429E-02			20.4	
gamma-BHC [2C]	4.836405E+07	17.19375	8.505742	4.606524E-03			20.4	
beta-BHC [2C]	2.000077E+07	9.779262	8.683772	1.264702E-02			20.4	
delta-BHC [2C]	4.151594E+07	21.66796	9.175661	1.889847E-02	0.996937		0.99	
Heptachlor [2C]	3.484764E+07	19.17427	9.246439	1.286873E-02			20.4	
Aldrin [2C]	4.54976E+07	14.71217	9.767971	8.101828E-03			20.4	
Isodrin [2C]	4.693538E+07	9.965538	10.39215	9.091407E-03			20.4	
Heptachlor epoxide [2C]	4.172478E+07	8.911483	10.68191	9.543842E-03			20.4	
Chlordane-gamma [2C]	4.1051E+07	12.76971	10.97383	1.185262E-02			20.4	
Chlordane-alpha [2C]	3.893921E+07	10.94769	11.1942	5.615891E-03			20.4	

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Water
Calibration Date: 03/01/07 12:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	4.02965E+07	15.08461	11.47275	6.255564E-03			20.4	
Endosulfan I [2C]	3.781883E+07	9.597487	11.2663	1.192407E-02			20.4	
Dieldrin [2C]	4.109473E+07	13.47976	11.67287	1.745912E-02			20.4	
Endrin [2C]	3.361927E+07	12.65626	12.12029	5.802273E-03			20.4	
4,4'-DDD [2C]	3.413488E+07	16.38682	12.31732	1.953199E-03			20.4	
Endosulfan II [2C]	3.528255E+07	9.757118	12.43006	1.597077E-03			20.4	
4,4'-DDT [2C]	2.839445E+07	20.283	12.76459	7.877615E-03			20.4	
Endrin aldehyde [2C]	2.559756E+07	10.14967	12.92114	1.144282E-02			20.4	
Methoxychlor [2C]	1.418626E+07	8.175524	13.76113	6.473616E-03			20.4	
Mirex [2C]	2.716001E+07	5.903931	14.0047	1.193216E-02			20.4	
Endosulfan sulfate [2C]	2.941459E+07	9.863741	13.31889	1.402236E-02			20.4	
Endrin ketone [2C]	3.715718E+07	10.39427	14.0714	8.153404E-03			20.4	
2,4,5,6-TCMX	4.194077E+07	11.09951	6.670759	2.402672E-02			20.4	
2,4,5,6-TCMX [2C]	3.605387E+07	11.3391	6.574225	2.051927E-02			20.4	
DBC	3.310242E+07	10.56549	13.93769	9.113852E-03			20.4	
DBC [2C]	2.991632E+07	10.53564	13.90026	1.251137E-02			20.4	

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0703005
Lab File ID:	9CPA003	Calibration Date:	03/01/07 12:00
Sequence:	BA00456	Injection Date:	03/21/07
Lab Sample ID:	BA00456-CCV1	Injection Time:	11:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	6.464446E+07	6.86015E+07		6.1	20
gamma-BHC	A	0.100	0.10	5.804705E+07	6.07759E+07		4.7	20
beta-BHC	A	0.100	0.096	2.383193E+07	2.29102E+07		-3.9	20
delta-BHC	L	0.100	0.090	5.105754E+07	5.4148E+07		-10.4	20
Heptachlor	A	0.100	0.10	4.485805E+07	4.62367E+07		3.1	20
Aldrin	A	0.100	0.10	5.549349E+07	5.68202E+07		2.4	20
Heptachlor epoxide	A	0.100	0.098	4.864549E+07	4.76847E+07		-2.0	20
Chlordane-gamma	A	0.100	0.11	4.811663E+07	5.14614E+07		7.0	20
Chlordane-alpha	A	0.100	0.11	4.600252E+07	4.94539E+07		7.5	20
4,4'-DDE	A	0.100	0.10	4.824241E+07	4.9282E+07		2.2	20
Endosulfan I	A	0.100	0.10	4.47688E+07	4.49744E+07		0.5	20
Dieldrin	A	0.100	0.10	4.659911E+07	4.78987E+07		2.8	20
Endrin	A	0.100	0.099	3.904473E+07	3.88313E+07		-0.5	20
4,4'-DDD	A	0.100	0.11	3.880568E+07	4.0955E+07		5.5	20
Endosulfan II	A	0.100	0.10	3.952801E+07	3.93454E+07		-0.5	20
4,4'-DDT	A	0.100	0.099	3.113115E+07	3.08065E+07		-1.0	20
Endrin aldehyde	A	0.100	0.098	2.870773E+07	2.80765E+07		-2.2	20
Methoxychlor	A	0.100	0.093	1.545328E+07	1.43591E+07		-7.1	20
Endosulfan sulfate	A	0.100	0.099	3.204563E+07	3.18337E+07		-0.7	20
Endrin ketone	A	0.100	0.10	4.015029E+07	4.02677E+07		0.3	20
alpha-BHC [2C]	A	0.100	0.11	5.384697E+07	5.7324E+07		6.5	20
gamma-BHC [2C]	A	0.100	0.11	4.836405E+07	5.10755E+07		5.6	20
beta-BHC [2C]	A	0.100	0.097	2.000077E+07	1.94171E+07		-2.9	20
delta-BHC [2C]	L	0.100	0.091	4.151594E+07	4.46183E+07		-9.0	20
Heptachlor [2C]	A	0.100	0.11	3.484764E+07	3.7626E+07		8.0	20
Aldrin [2C]	A	0.100	0.10	4.54976E+07	4.75412E+07		4.5	20
Heptachlor epoxide [2C]	A	0.100	0.10	4.172478E+07	4.15831E+07		-0.3	20
Chlordane-gamma [2C]	A	0.100	0.11	4.1051E+07	4.45153E+07		8.4	20
Chlordane-alpha [2C]	A	0.100	0.11	3.893921E+07	4.22455E+07		8.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0703005
Lab File ID:	9CPB003	Calibration Date:	03/01/07 12:00
Sequence:	BA00456	Injection Date:	03/21/07
Lab Sample ID:	BA00456-CCV1	Injection Time:	11:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.10	4.02965E+07	4.22345E+07		4.8	20
Endosulfan I [2C]	A	0.100	0.10	3.781883E+07	3.85719E+07		2.0	20
Dieldrin [2C]	A	0.100	0.11	4.109473E+07	4.31598E+07		5.0	20
Endrin [2C]	A	0.100	0.10	3.361927E+07	3.41237E+07		1.5	20
4,4'-DDD [2C]	A	0.100	0.11	3.413488E+07	3.65477E+07		7.1	20
Endosulfan II [2C]	A	0.100	0.10	3.528255E+07	3.56992E+07		1.2	20
4,4'-DDT [2C]	A	0.100	0.086	2.839445E+07	2.8516E+07		0.4	20
Endrin aldehyde [2C]	A	0.100	0.099	2.559756E+07	2.5432E+07		-0.6	20
Methoxychlor [2C]	A	0.100	0.094	1.418626E+07	1.33073E+07		-6.2	20
Endosulfan sulfate [2C]	A	0.100	0.10	2.941459E+07	2.95271E+07		0.4	20
Endrin ketone [2C]	A	0.100	0.10	3.715718E+07	3.76685E+07		1.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0703005
Lab File ID:	9CPA011	Calibration Date:	03/01/07 12:00
Sequence:	BA00456	Injection Date:	03/21/07
Lab Sample ID:	BA00456-CCV2	Injection Time:	14:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	6.464446E+07	6.81482E+07		5.4	20
gamma-BHC	A	0.100	0.10	5.804705E+07	6.04235E+07		4.1	20
beta-BHC	A	0.100	0.096	2.383193E+07	2.27899E+07		-4.4	20
delta-BHC	L	0.100	0.090	5.105754E+07	5.43153E+07		-10.2	20
Heptachlor	A	0.100	0.10	4.485805E+07	4.69514E+07		4.7	20
Aldrin	A	0.100	0.10	5.549349E+07	5.63443E+07		1.5	20
Heptachlor epoxide	A	0.100	0.097	4.864549E+07	4.73707E+07		-2.6	20
Chlordane-gamma	A	0.100	0.11	4.811663E+07	5.08483E+07		5.7	20
Chlordane-alpha	A	0.100	0.11	4.600252E+07	4.89591E+07		6.4	20
4,4'-DDE	A	0.100	0.10	4.824241E+07	4.86034E+07		0.7	20
Endosulfan I	A	0.100	0.10	4.47688E+07	4.47445E+07		-0.05	20
Dieldrin	A	0.100	0.10	4.659911E+07	4.74538E+07		1.8	20
Endrin	A	0.100	0.10	3.904473E+07	3.89979E+07		-0.1	20
4,4'-DDD	A	0.100	0.10	3.880568E+07	3.98262E+07		2.6	20
Endosulfan II	A	0.100	0.10	3.952801E+07	3.96296E+07		0.3	20
4,4'-DDT	A	0.100	0.10	3.113115E+07	3.17694E+07		2.1	20
Endrin aldehyde	A	0.100	0.10	2.870773E+07	2.93189E+07		2.1	20
Methoxychlor	A	0.100	0.095	1.545328E+07	1.47477E+07		-4.6	20
Endosulfan sulfate	A	0.100	0.10	3.204563E+07	3.26353E+07		1.8	20
Endrin ketone	A	0.100	0.10	4.015029E+07	4.06721E+07		1.3	20
alpha-BHC [2C]	A	0.100	0.11	5.384697E+07	5.719E+07		6.2	20
gamma-BHC [2C]	A	0.100	0.11	4.836405E+07	5.10028E+07		5.5	20
beta-BHC [2C]	A	0.100	0.098	2.000077E+07	1.95585E+07		-2.2	20
delta-BHC [2C]	L	0.100	0.092	4.151594E+07	4.51397E+07		-8.0	20
Heptachlor [2C]	A	0.100	0.11	3.484764E+07	3.80757E+07		9.3	20
Aldrin [2C]	A	0.100	0.10	4.54976E+07	4.72958E+07		4.0	20
Heptachlor epoxide [2C]	A	0.100	0.099	4.172478E+07	4.13647E+07		-0.9	20
Chlordane-gamma [2C]	A	0.100	0.11	4.1051E+07	4.42712E+07		7.8	20
Chlordane-alpha [2C]	A	0.100	0.11	3.893921E+07	4.25468E+07		9.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0703005
Lab File ID:	9CPB011	Calibration Date:	03/01/07 12:00
Sequence:	BA00456	Injection Date:	03/21/07
Lab Sample ID:	BA00456-CCV2	Injection Time:	14:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.10	4.02965E+07	4.18975E+07		4.0	20
Endosulfan I [2C]	A	0.100	0.10	3.781883E+07	3.91705E+07		3.6	20
Dieldrin [2C]	A	0.100	0.10	4.109473E+07	4.30481E+07		4.8	20
Endrin [2C]	A	0.100	0.10	3.361927E+07	3.43983E+07		2.3	20
4,4'-DDD [2C]	A	0.100	0.11	3.413488E+07	3.5953E+07		5.3	20
Endosulfan II [2C]	A	0.100	0.10	3.528255E+07	3.60421E+07		2.2	20
4,4'-DDT [2C]	A	0.100	0.088	2.839445E+07	2.93435E+07		3.3	20
Endrin aldehyde [2C]	A	0.100	0.11	2.559756E+07	2.68866E+07		5.0	20
Methoxychlor [2C]	A	0.100	0.096	1.418626E+07	1.36811E+07		-3.6	20
Endosulfan sulfate [2C]	A	0.100	0.10	2.941459E+07	3.03325E+07		3.1	20
Endrin ketone [2C]	A	0.100	0.10	3.715718E+07	3.81482E+07		2.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW29S030907

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-01	File ID:	9CPA008
Sampled:	03/09/07 11:10	Prepared:	03/13/07 08:24	Analyzed:	03/21/07 13:26
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	7C13003	Sequence:	BA00456		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m,.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
beta-BHC	* 1	8.647955	8.642831	0.00512		0.003	125
delta-BHC	* 1	8.94069	8.946087	0.0054		0.062	12
Heptachlor	* 1	9.295815	9.295715	0.0001		0.001	46.2
Dieldrin	* 1	11.75728	11.74955	0.00773		0.004	58.1
Endosulfan II	* 1	12.40676	12.42659	0.0198		0.003	3.28
4,4'-DDT	* 1	12.58476	12.61188	0.0271		0.002	186
beta-BHC	2	8.64431	8.683772	0.0395		0.013	123
delta-BHC	2	9.208711	9.175661	0.033		0.055	12
Heptachlor	2	9.26297	9.246439	0.0165		0.002	50
Dieldrin	2	11.63674	11.67287	0.0361		0.002	54.5
Endosulfan II	2	12.41621	12.43006	0.0138		0.003	6.9
4,4'-DDT	2	12.81738	12.76459	0.0528		0.056	184
2,4,5,6-TCMX	* 1	6.672654	6.670759	0.00189		0.73	1.36
2,4,5,6-TCMX	2	6.576925	6.574225	0.0027		0.74	1.36
DBC	* 1	13.93622	13.93769	0.00147		0.88	1.13
DBC	2	13.90041	13.90026	0.00015		0.89	1.13

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-MW30S030907

Laboratory:	ENCO Jacksonville			SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Ground Water	Laboratory ID:	B702192-02	File ID:	9CPA009
Sampled:	03/09/07 12:50	Prepared:	03/13/07 08:24	Analyzed:	03/21/07 13:52
Solids:		Preparation:	EPA 3510C	Instrument:	JSVGCECD2
Batch:	7C13003	Sequence:	BA00456		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
beta-BHC	* 1	8.652859	8.642831	0.01		0.004	124
delta-BHC	* 1	8.942002	8.946087	0.00408		0.061	0
Heptachlor	* 1	9.297781	9.295715	0.00207		0.002	57.1
4,4'-DDE	1	11.31728	11.31795	0.00067		0.004	40
Dieldrin	* 1	11.75951	11.74955	0.00996		0.009	44.9
4,4'-DDD	* 1	12.23419	12.20803	0.0262		0.004	2.53
Endosulfan II	1	12.41085	12.42659	0.0157		0.039	140
beta-BHC	2	8.645128	8.683772	0.0386		0.017	129
delta-BHC	2	9.210641	9.175661	0.035		0.061	0
Heptachlor	2	9.263927	9.246439	0.0175		0.004	66.7
4,4'-DDE	* 2	11.47471	11.47275	0.00196		0.006	47.4
Dieldrin	2	11.66979	11.67287	0.00308		0.006	38.9
4,4'-DDD	2	12.37065	12.31732	0.0533		0.004	7.79
Endosulfan II	* 2	12.41808	12.43006	0.012		0.007	139
2,4,5,6-TCMX	* 1	6.672938	6.670759	0.00218		0.72	0
2,4,5,6-TCMX	2	6.577367	6.574225	0.00314		0.72	0
DBC	* 1	13.93713	13.93769	0.00056		0.86	1.16
DBC	2	13.90038	13.90026	0.00012		0.87	1.16

* Column used for quantitation

ENCO Jacksonville
SDG: BR006-020
CLASS: SVOA
METHOD: EPA 8270C

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270C

Laboratory: ENCO Jacksonville

SDG: BR006-020

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-MW29S-030907	B702192-01
JAX47-MW30S-030907	B702192-02
JAX47-MW31D-030709	B702192-03

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.04.11 14:23:30 -04'00'

Name: Christina Tompkins

Date: 04/07/06

Title: Project Manager

PREPARATION BATCH SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C15003 Batch Matrix: Water Preparation: EPA 3510C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C15003-BLK1	5CP033.D	03/15/07 07:38	
LCS	7C15003-BS1	5CP034.D	03/15/07 07:38	
JAX47-MW31D-030709	7C15003-MS1	5CP035.D	03/15/07 07:38	
JAX47-MW31D-030709	7C15003-MSD1	5CP036.D	03/15/07 07:38	
JAX47-MW29S-030907	B702192-01	5CP042.D	03/15/07 07:38	
JAX47-MW30S-030907	B702192-02	5CP041.D	03/15/07 07:38	
JAX47-MW31D-030709	B702192-03	5CP040.D	03/15/07 07:38	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00466	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0703009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00466-TUN2	5CP029.D	03/22/07 12:43
Calibration Check	BA00466-CCV3	5CP030.D	03/22/07 13:00
Blank	7C15003-BLK1	5CP033.D	03/22/07 14:14
LCS	7C15003-BS1	5CP034.D	03/22/07 14:39
JAX47-MW31D-030709	7C15003-MS1	5CP035.D	03/22/07 15:03
JAX47-MW31D-030709	7C15003-MSD1	5CP036.D	03/22/07 15:27
JAX47-MW31D-030709	B702192-03	5CP040.D	03/22/07 17:03
JAX47-MW30S-030907	B702192-02	5CP041.D	03/22/07 17:27
JAX47-MW29S-030907	B702192-01	5CP042.D	03/22/07 17:51

HOLDING TIME SUMMARY
EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	O
JAX47-MW29S030907	03/09/07 11:10	03/09/07 17:23	03/15/07 07:38	6.00	7.00	03/22/07 17:51	7.00	40.00	
JAX47-MW30S030907	03/09/07 12:50	03/09/07 17:23	03/15/07 07:38	6.00	7.00	03/22/07 17:27	7.00	40.00	
JAX47-MW31D-030709	03/09/07 14:30	03/09/07 17:23	03/15/07 07:38	6.00	7.00	03/22/07 17:03	7.00	40.00	

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-020	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	7C15003-BLK1	File ID:	5CP033.D
Prepared:	03/15/07 07:38	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	03/22/07 14:14	Instrument:	JSVGCMS1		
Batch:	7C15003	Sequence:	BA00466	Calibration:	0703009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-95-2	Phenol	2	U
111-44-4	Bis(2-chloroethyl)ether	3	U
95-57-8	2-Chlorophenol	3	U
95-48-7	2-Methylphenol	2	U
39638-32-9	Bis(2-chloroisopropyl)ether	4	U
106-44-5	3 & 4-Methylphenol	2	U
621-64-7	N-Nitroso-di-n-propylamine	3	U
67-72-1	Hexachloroethane	3	U
98-95-3	Nitrobenzene	4	U
78-59-1	Isophorone	3	U
88-75-5	2-Nitrophenol	3	U
105-67-9	2,4-Dimethylphenol	2	U
111-91-1	Bis(2-chloroethoxy)methane	3	U
120-83-2	2,4-Dichlorophenol	2	U
91-20-3	Naphthalene	3	U
106-47-8	4-Chloroaniline	2	U
87-68-3	Hexachlorobutadiene	3	U
59-50-7	4-Chloro-3-methylphenol	1	U
91-57-6	2-Methylnaphthalene	2	U
77-47-4	Hexachlorocyclopentadiene	2	U
88-06-2	2,4,6-Trichlorophenol	2	U
95-95-4	2,4,5-Trichlorophenol	2	U
91-58-7	2-Chloronaphthalene	2	U
88-74-4	2-Nitroaniline	2	U
131-11-3	Dimethylphthalate	1	U
606-20-2	2,6-Dinitrotoluene	2	U
208-96-8	Acenaphthylene	2	U
99-09-2	3-Nitroaniline	0.9	U
83-32-9	Acenaphthene	2	U
51-28-5	2,4-Dinitrophenol	1	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-020	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	7C15003-BLK1	File ID:	5CP033.D
Prepared:	03/15/07 07:38	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	03/22/07 14:14	Instrument:	JSVGCMS1		
Batch:	7C15003	Sequence:	BA00466	Calibration:	0703009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
100-02-7	4-Nitrophenol	1	U
132-64-9	Dibenzofuran	2	U
121-14-2	2,4-Dinitrotoluene	2	U
84-66-2	Diethylphthalate	2	U
7005-72-3	4-Chlorophenyl-phenylether	2	U
86-73-7	Fluorene	1	U
100-01-6	4-Nitroaniline	2	U
534-52-1	2-Methyl-4,6-dinitrophenol	1	U
86-30-6	N-Nitrosodiphenylamine	2	U
101-55-3	4-Bromophenyl-phenylether	2	U
118-74-1	Hexachlorobenzene	2	U
87-86-5	Pentachlorophenol	1	U
85-01-8	Phenanthrene	1	U
120-12-7	Anthracene	1	U
86-74-8	Carbazole	1	U
84-74-2	Di-n-butylphthalate	1	U
206-44-0	Fluoranthene	2	U
129-00-0	Pyrene	2	U
92-52-4	1,1'-Biphenyl	3	U
1912-24-9	Atrazine	1	U
85-68-7	Butylbenzylphthalate	1	U
100-52-7	Benzaldehyde	3	U
91-94-1	3,3'-Dichlorobenzidine	2	U
105-60-2	Caprolactam	2	U
56-55-3	Benzo(a)anthracene	1	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	U
218-01-9	Chrysene	2	U
117-84-0	Di-n-octylphthalate	2	U
205-99-2	Benzo(b)fluoranthene	2	U
207-08-9	Benzo(k)fluoranthene	1	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-020	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	7C15003-BLK1	File ID:	5CP033.D
Prepared:	03/15/07 07:38	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	03/22/07 14:14	Instrument:	JSVGCMS1		
Batch:	7C15003	Sequence:	BA00466	Calibration:	0703009

CAS NO.	COMPOUND	CONC. (ug/L)	Q
50-32-8	Benzo(a)pyrene	1	U
193-39-5	Indeno(1,2,3-cd)pyrene	3	U
53-70-3	Dibenzo(a,h)anthracene	3	U
191-24-2	Benzo(g,h,i)perylene	3	U
98-86-2	Acetophenone	2	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	100	59.2	59	15 - 134	
Nitrobenzene-d5	50.0	45.3	91	10 - 125	
2-Fluorobiphenyl	50.0	39.2	78	15 - 134	
2,4,6-Tribromophenol	100	69.6	70	10 - 189	
Terphenyl-d14	50.0	47.9	96	10 - 206	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	307457	4.86	357496	4.86	
Naphthalene-d8	1116727	6.06	1315401	6.06	
Acenaphthene-d10	771476	7.79	858277	7.79	
Phenanthrene-d10	1383982	9.28	1504620	9.28	
Chrysene-d12	1841481	11.93	2244664	11.93	
Perylene-d12	1708355	13.34	1981214	13.34	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00466	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0703009

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00466-CCV3)			Lab File ID: 5CP030.D		Analyzed: 03/22/07 13:00			
2-Fluorophenol	40.0	99	35 - 105	3.75	3.75	0.0000	+/-0.1	
Nitrobenzene-d5	40.0	99	35 - 100	5.37	5.375	-0.0050	+/-0.1	
2-Fluorobiphenyl	40.0	95	45 - 105	7.1	7.103333	-0.0033	+/-0.1	
2,4,6-Tribromophenol	40.0	99	35 - 125	8.58	8.583333	-0.0033	+/-0.1	
Terphenyl-d14	40.0	99	30 - 125	10.85	10.855	-0.0050	+/-0.1	
Blank (7C15003-BLK1)			Lab File ID: 5CP033.D		Analyzed: 03/22/07 14:14			
2-Fluorophenol	100	59	15 - 134	3.75	3.75	0.0000	+/-0.1	
Nitrobenzene-d5	50.0	91	10 - 125	5.37	5.375	-0.0050	+/-0.1	
2-Fluorobiphenyl	50.0	78	15 - 134	7.1	7.103333	-0.0033	+/-0.1	
2,4,6-Tribromophenol	100	70	10 - 189	8.58	8.583333	-0.0033	+/-0.1	
Terphenyl-d14	50.0	96	10 - 206	10.85	10.855	-0.0050	+/-0.1	
LCS (7C15003-BS1)			Lab File ID: 5CP034.D		Analyzed: 03/22/07 14:39			
2-Fluorophenol	100	80	15 - 134	3.76	3.75	0.0100	+/-0.1	
Nitrobenzene-d5	50.0	97	10 - 125	5.37	5.375	-0.0050	+/-0.1	
2-Fluorobiphenyl	50.0	92	15 - 134	7.1	7.103333	-0.0033	+/-0.1	
2,4,6-Tribromophenol	100	100	10 - 189	8.58	8.583333	-0.0033	+/-0.1	
Terphenyl-d14	50.0	102	10 - 206	10.85	10.855	-0.0050	+/-0.1	
Matrix Spike (7C15003-MS1)			Lab File ID: 5CP035.D		Analyzed: 03/22/07 15:03			
2-Fluorophenol	100	64	15 - 134	3.76	3.75	0.0100	+/-0.1	
Nitrobenzene-d5	50.0	99	10 - 125	5.37	5.375	-0.0050	+/-0.1	
2-Fluorobiphenyl	50.0	93	15 - 134	7.1	7.103333	-0.0033	+/-0.1	
2,4,6-Tribromophenol	100	104	10 - 189	8.58	8.583333	-0.0033	+/-0.1	
Terphenyl-d14	50.0	106	10 - 206	10.85	10.855	-0.0050	+/-0.1	
Matrix Spike Dup (7C15003-MSD1)			Lab File ID: 5CP036.D		Analyzed: 03/22/07 15:27			
2-Fluorophenol	100	66	15 - 134	3.76	3.75	0.0100	+/-0.1	
Nitrobenzene-d5	50.0	101	10 - 125	5.37	5.375	-0.0050	+/-0.1	
2-Fluorobiphenyl	50.0	94	15 - 134	7.1	7.103333	-0.0033	+/-0.1	
2,4,6-Tribromophenol	100	105	10 - 189	8.58	8.583333	-0.0033	+/-0.1	
Terphenyl-d14	50.0	106	10 - 206	10.85	10.855	-0.0050	+/-0.1	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00466	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0703009

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
JAX47-MW31D-030709 (B702192-03)			Lab File ID: 5CP040.D		Analyzed: 03/22/07 17:03			
2-Fluorophenol	100	52	20 - 110	3.75	3.75	0.0000	+/-0.1	
Nitrobenzene-d5	50.0	96	40 - 110	5.37	5.375	-0.0050	+/-0.1	
2-Fluorobiphenyl	50.0	84	50 - 110	7.1	7.103333	-0.0033	+/-0.1	
2,4,6-Tribromophenol	100	81	40 - 125	8.58	8.583333	-0.0033	+/-0.1	
Terphenyl-d14	50.0	104	50 - 135	10.85	10.855	-0.0050	+/-0.1	
JAX47-MW30S030907 (B702192-02)			Lab File ID: 5CP041.D		Analyzed: 03/22/07 17:27			
2-Fluorophenol	100	49	20 - 110	3.75	3.75	0.0000	+/-0.1	
Phenol-d5	100	33	10 - 94	4.52	4.523333	-0.0033	+/-0.1	
Nitrobenzene-d5	50.0	96	40 - 110	5.37	5.375	-0.0050	+/-0.1	
2-Fluorobiphenyl	50.0	85	50 - 110	7.1	7.103333	-0.0033	+/-0.1	
2,4,6-Tribromophenol	100	78	40 - 125	8.58	8.583333	-0.0033	+/-0.1	
Terphenyl-d14	50.0	106	50 - 135	10.85	10.855	-0.0050	+/-0.1	
JAX47-MW29S030907 (B702192-01)			Lab File ID: 5CP042.D		Analyzed: 03/22/07 17:51			
2-Fluorophenol	100	34	20 - 110	3.75	3.75	0.0000	+/-0.1	
Phenol-d5	100	24	10 - 94	4.52	4.523333	-0.0033	+/-0.1	
Nitrobenzene-d5	50.0	72	40 - 110	5.37	5.375	-0.0050	+/-0.1	
2-Fluorobiphenyl	50.0	65	50 - 110	7.1	7.103333	-0.0033	+/-0.1	
2,4,6-Tribromophenol	100	64	40 - 125	8.58	8.583333	-0.0033	+/-0.1	
Terphenyl-d14	50.0	104	50 - 135	10.85	10.855	-0.0050	+/-0.1	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX47-MW31D-030709

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C15003	Laboratory ID:	7C15003-MS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	ND	47.2	94	35 - 110
2-Chlorophenol	50.0	ND	41.7	83	35 - 105
2-Methylphenol	50.0	ND	39.3	79	40 - 110
Bis(2-chloroisopropyl)ether	50.0	ND	46.8	94	25 - 130
3 & 4-Methylphenol	50.0	ND	36.5	73	30 - 110
N-Nitroso-di-n-propylamine	50.0	ND	52.7	105	35 - 130
Hexachloroethane	50.0	ND	30.3	61	30 - 95
Nitrobenzene	50.0	ND	49.1	98	45 - 110
Isophorone	50.0	ND	53.8	108	50 - 110
2-Nitrophenol	50.0	ND	47.8	96	40 - 115
2,4-Dimethylphenol	50.0	ND	38.3	77	30 - 110
Bis(2-chloroethoxy)methane	50.0	ND	50.7	101	45 - 105
2,4-Dichlorophenol	50.0	ND	47.0	94	50 - 105
Naphthalene	50.0	ND	42.8	86	40 - 100
4-Chloroaniline	50.0	ND	40.4	81	15 - 110
Hexachlorobutadiene	50.0	ND	32.4	65	25 - 105
4-Chloro-3-methylphenol	50.0	ND	49.4	99	45 - 110
2-Methylnaphthalene	50.0	ND	42.3	85	45 - 105
2,4,6-Trichlorophenol	50.0	ND	52.5	105	50 - 115
2,4,5-Trichlorophenol	50.0	ND	52.9	106	50 - 110
2-Chloronaphthalene	50.0	ND	42.6	85	50 - 105
2-Nitroaniline	50.0	ND	55.6	111	50 - 115
Dimethylphthalate	50.0	ND	54.2	108	25 - 125
2,6-Dinitrotoluene	50.0	ND	53.3	107	50 - 115
Acenaphthylene	50.0	ND	49.7	99	50 - 105
3-Nitroaniline	50.0	ND	44.9	90	20 - 125
Acenaphthene	50.0	ND	47.1	94	45 - 110
2,4-Dinitrophenol	50.0	ND	66.1	132	15 - 140
2,4-Dinitrotoluene	50.0	ND	53.6	107	50 - 120
Diethylphthalate	50.0	ND	55.7	111	40 - 120
4-Chlorophenyl-phenylether	50.0	ND	48.4	97	50 - 110
Fluorene	50.0	ND	47.5	95	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX47-MW31D-030709

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C15003	Laboratory ID:	7C15003-MS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
4-Nitroaniline	50.0	ND	51.9	104	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	ND	65.3	131 *	40 - 130
N-Nitrosodiphenylamine	50.0	ND	66.8	134 *	50 - 110
Hexachlorobenzene	50.0	ND	52.4	105	50 - 110
Pentachlorophenol	50.0	ND	54.6	109	40 - 115
Phenanthrene	50.0	ND	49.7	99	50 - 115
Anthracene	50.0	ND	49.6	99	55 - 110
Carbazole	50.0	ND	45.6	91	50 - 115
Di-n-butylphthalate	50.0	ND	55.0	110	55 - 115
Fluoranthene	50.0	ND	57.9	116 *	55 - 115
Pyrene	50.0	ND	53.0	106	50 - 130
Butylbenzylphthalate	50.0	ND	56.1	112	45 - 115
Benzo(a)anthracene	50.0	ND	55.8	112 *	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	ND	52.4	105	40 - 125
Chrysene	50.0	ND	57.1	114 *	55 - 110
Di-n-octylphthalate	50.0	ND	52.5	105	35 - 135
Benzo(b)fluoranthene	50.0	ND	52.7	105	45 - 120
Benzo(k)fluoranthene	50.0	ND	61.2	122	45 - 125
Benzo(a)pyrene	50.0	ND	57.1	114 *	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	ND	54.8	110	45 - 125
Dibenzo(a,h)anthracene	50.0	ND	54.7	109	40 - 125
Benzo(g,h,i)perylene	50.0	ND	53.0	106	40 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	46.3	93	2	35	35 - 110
2-Chlorophenol	50.0	41.8	84	0.2	33	35 - 105
2-Methylphenol	50.0	38.5	77	2	34	40 - 110
Bis(2-chloroisopropyl)ether	50.0	46.6	93	0.4	28	25 - 130
3 & 4-Methylphenol	50.0	36.0	72	1	32	30 - 110
N-Nitroso-di-n-propylamine	50.0	52.4	105	0.4	32	35 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8270C

JAX47-MW31D-030709

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C15003
Laboratory ID: 7C15003-MSD1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachloroethane	50.0	27.0	54	11	35	30 - 95
Nitrobenzene	50.0	49.8	100	1	27	45 - 110
Isophorone	50.0	53.3	107	0.9	27	50 - 110
2-Nitrophenol	50.0	47.4	95	0.7	26	40 - 115
2,4-Dimethylphenol	50.0	35.9	72	6	26	30 - 110
Bis(2-chloroethoxy)methane	50.0	50.4	101	0.5	27	45 - 105
2,4-Dichlorophenol	50.0	46.7	93	0.6	30	50 - 105
Naphthalene	50.0	41.3	83	3	35	40 - 100
4-Chloroaniline	50.0	39.4	79	3	30	15 - 110
Hexachlorobutadiene	50.0	28.8	58	12	31	25 - 105
4-Chloro-3-methylphenol	50.0	48.6	97	2	26	45 - 110
2-Methylnaphthalene	50.0	41.0	82	3	35	45 - 105
2,4,6-Trichlorophenol	50.0	52.7	105	0.4	25	50 - 115
2,4,5-Trichlorophenol	50.0	52.8	106	0.04	32	50 - 110
2-Chloronaphthalene	50.0	41.9	84	2	32	50 - 105
2-Nitroaniline	50.0	54.8	110	1	23	50 - 115
Dimethylphthalate	50.0	54.0	108	0.4	24	25 - 125
2,6-Dinitrotoluene	50.0	52.4	105	2	24	50 - 115
Acenaphthylene	50.0	49.7	99	0.06	26	50 - 105
3-Nitroaniline	50.0	43.6	87	3	35	20 - 125
Acenaphthene	50.0	46.7	93	0.8	25	45 - 110
2,4-Dinitrophenol	50.0	65.5	131	0.9	22	15 - 140
2,4-Dinitrotoluene	50.0	52.5	105	2	21	50 - 120
Diethylphthalate	50.0	55.5	111	0.4	22	40 - 120
4-Chlorophenyl-phenylether	50.0	48.2	96	0.2	26	50 - 110
Fluorene	50.0	47.2	94	0.6	24	50 - 110
4-Nitroaniline	50.0	48.3	97	7	35	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	64.5	129	1	32	40 - 130
N-Nitrosodiphenylamine	50.0	65.5	131 *	2	22	50 - 110
Hexachlorobenzene	50.0	51.8	104	1	23	50 - 110
Pentachlorophenol	50.0	51.2	102	7	24	40 - 115
Phenanthrene	50.0	48.6	97	2	22	50 - 115
Anthracene	50.0	48.8	98	1	30	55 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX47-MW31D-030709

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C15003	Laboratory ID:	7C15003-MSD1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Source Sample Name: JAX47-MW31D-030709

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Carbazole	50.0	45.1	90	1	25	50 - 115
Di-n-butylphthalate	50.0	53.8	108	2	19	55 - 115
Fluoranthene	50.0	56.4	113	3	28	55 - 115
Pyrene	50.0	52.0	104	2	28	50 - 130
Butylbenzylphthalate	50.0	54.2	108	4	29	45 - 115
Benzo(a)anthracene	50.0	54.5	109	2	30	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	51.3	103	2	30	40 - 125
Chrysene	50.0	55.2	110	3	30	55 - 110
Di-n-octylphthalate	50.0	51.0	102	3	28	35 - 135
Benzo(b)fluoranthene	50.0	51.1	102	3	30	45 - 120
Benzo(k)fluoranthene	50.0	57.8	116	6	32	45 - 125
Benzo(a)pyrene	50.0	54.1	108	5	30	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	52.6	105	4	27	45 - 125
Dibenzo(a,h)anthracene	50.0	52.5	105	4	22	40 - 125
Benzo(g,h,i)perylene	50.0	51.2	102	3	25	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C15003	Laboratory ID:	7C15003-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Bis(2-chloroethyl)ether	50.0	47.4	95	35 - 110
2-Chlorophenol	50.0	43.7	87	35 - 105
2-Methylphenol	50.0	41.2	82	40 - 110
Bis(2-chloroisopropyl)ether	50.0	46.2	92	25 - 130
3 & 4-Methylphenol	50.0	38.9	78	30 - 110
N-Nitroso-di-n-propylamine	50.0	52.5	105	35 - 130
Hexachloroethane	50.0	31.3	63	30 - 95
Nitrobenzene	50.0	48.2	96	45 - 110
Isophorone	50.0	52.3	105	50 - 110
2-Nitrophenol	50.0	47.1	94	40 - 115
2,4-Dimethylphenol	50.0	35.1	70	30 - 110
Bis(2-chloroethoxy)methane	50.0	49.3	99	45 - 105
2,4-Dichlorophenol	50.0	46.2	92	50 - 105
Naphthalene	50.0	43.4	87	40 - 100
4-Chloroaniline	50.0	36.9	74	15 - 110
Hexachlorobutadiene	50.0	35.4	71	25 - 105
4-Chloro-3-methylphenol	50.0	49.6	99	45 - 110
2-Methylnaphthalene	50.0	43.9	88	45 - 105
2,4,6-Trichlorophenol	50.0	51.3	103	50 - 115
2,4,5-Trichlorophenol	50.0	51.1	102	50 - 110
2-Chloronaphthalene	50.0	44.7	89	50 - 105
2-Nitroaniline	50.0	53.9	108	50 - 115
Dimethylphthalate	50.0	53.0	106	25 - 125
2,6-Dinitrotoluene	50.0	50.6	101	50 - 115
Acenaphthylene	50.0	50.8	102	50 - 105
3-Nitroaniline	50.0	44.2	88	20 - 125
Acenaphthene	50.0	48.1	96	45 - 110
2,4-Dinitrophenol	50.0	61.7	123	15 - 140
2,4-Dinitrotoluene	50.0	51.3	103	50 - 120
Diethylphthalate	50.0	52.7	105	40 - 120

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C15003
Laboratory ID: 7C15003-BS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
4-Chlorophenyl-phenylether	50.0	48.9	98	50 - 110
Fluorene	50.0	47.3	95	50 - 110
4-Nitroaniline	50.0	43.0	86	35 - 120
2-Methyl-4,6-dinitrophenol	50.0	62.0	124	40 - 130
N-Nitrosodiphenylamine	50.0	64.5	129 *	50 - 110
Hexachlorobenzene	50.0	51.0	102	50 - 110
Pentachlorophenol	50.0	51.7	103	40 - 115
Phenanthrene	50.0	48.8	98	50 - 115
Anthracene	50.0	48.7	97	55 - 110
Carbazole	50.0	42.6	85	50 - 115
Di-n-butylphthalate	50.0	52.8	106	55 - 115
Fluoranthene	50.0	55.7	111	55 - 115
Pyrene	50.0	51.8	104	50 - 130
Butylbenzylphthalate	50.0	53.5	107	45 - 115
Benzo(a)anthracene	50.0	53.3	107	55 - 110
Bis(2-ethylhexyl)phthalate	50.0	49.8	100	40 - 125
Chrysene	50.0	54.3	109	55 - 110
Di-n-octylphthalate	50.0	49.9	100	35 - 135
Benzo(b)fluoranthene	50.0	51.2	102	45 - 120
Benzo(k)fluoranthene	50.0	58.5	117	45 - 125
Benzo(a)pyrene	50.0	54.1	108	55 - 110
Indeno(1,2,3-cd)pyrene	50.0	53.2	106	45 - 125
Dibenzo(a,h)anthracene	50.0	52.9	106	40 - 125
Benzo(g,h,i)perylene	50.0	51.5	103	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00463	Instrument:	JSVGCMS1
Calibration:	0703009		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B7C0178	8270 Curve - 10ppm curve std	BA00463-CAL1	5CP006.D	03/21/07 13:17
B7C0177	8270 Curve - 20ppm curve std	BA00463-CAL2	5CP007.D	03/21/07 13:41
B7C0176	8270 Curve - 40ppm curve std	BA00463-CAL3	5CP008.D	03/21/07 14:05
B7C0175	8270 Curve - 60ppm curve std	BA00463-CAL4	5CP009.D	03/21/07 14:30
B7C0174	8270 Curve - 80ppm curve std	BA00463-CAL5	5CP010.D	03/21/07 14:55
B7C0173	8270 Curve - 100ppm curve std	BA00463-CAL6	5CP011.D	03/21/07 15:19
B7B0071	8270 - 10ug/mL Basic Extractables	BA00463-CAL7	5CP014.D	03/21/07 17:43
B7B0070	8270 - 20ug/mL Basic Extractables	BA00463-CAL8	5CP015.D	03/21/07 18:07
B7B0069	8270 - 40ug/mL Basic Extractables	BA00463-CAL9	5CP016.D	03/21/07 18:32
B7B0068	8270 - 60ug/mL Basic Extractables	BA00463-CALA	5CP017.D	03/21/07 18:56
B7B0067	8270 - 80ug/mL Basic Extractables	BA00463-CALB	5CP018.D	03/21/07 19:20
B7B0066	8270 - 100ug/mL Basic Extractables	BA00463-CALC	5CP019.D	03/21/07 19:45

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 03/21/07 15:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-Nitrosodimethylamine	10	0.3737505	20	0.3711452	40	0.4141041	60	0.4205518	80	0.4121152	100	0.4472033
Pyridine	10	0.6866761	20	0.7496898	40	0.7983604	60	0.8032065	80	0.8261749	100	0.7925621
Phenol	10	1.07991	20	1.123844	40	1.244981	60	1.250059	80	1.343046	100	1.42716
Bis(2-chloroethyl)ether	10	0.8348354	20	0.8609598	40	0.8928058	60	0.8635907	80	0.8971235	100	0.9246551
2-Chlorophenol	10	1.028325	20	1.044106	40	1.162709	60	1.170567	80	1.260379	100	1.32941
1,3-Dichlorobenzene	10	1.273218	20	1.273826	40	1.420006	60	1.437244	80	1.538929	100	1.626435
1,4-Dichlorobenzene	10	1.305042	20	1.328288	40	1.480652	60	1.495835	80	1.590831	100	1.707369
Benzyl alcohol	10	0.4991111	20	0.533515	40	0.60029	60	0.5961537	80	0.6310833	100	0.6597397
1,2-Dichlorobenzene	10	1.243554	20	1.251941	40	1.370875	60	1.394268	80	1.505799	100	1.586977
2-Methylphenol	10	0.7546657	20	0.8028882	40	0.9174728	60	0.9483366	80	1.051921	100	1.155358
Bis(2-chloroisopropyl)ether	10	0.8059306	20	0.8083035	40	0.895253	60	0.9143816	80	0.9824674	100	1.051048
3 & 4-Methylphenol	10	0.9021192	20	0.9855219	40	1.182388	60	1.298496	80	1.456223	100	1.566769
N-Nitroso-di-n-propylamine	10	0.6004004	20	0.6249139	40	0.714732	60	0.736818	80	0.7836921	100	0.8027385
Hexachloroethane	10	0.4815309	20	0.4744041	40	0.5375928	60	0.5396894	80	0.5719979	100	0.594098
Nitrobenzene	10	0.2581854	20	0.2558475	40	0.2820663	60	0.2805559	80	0.298173	100	0.3143971
Isophorone	10	0.4621473	20	0.4741684	40	0.5231439	60	0.5174918	80	0.5547622	100	0.5739735
2-Nitrophenol	10	0.1403981	20	0.1497639	40	0.1686795	60	0.1778626	80	0.1968359	100	0.2115452
2,4-Dimethylphenol	10	0.2386555	20	0.2365833	40	0.2772059	60	0.2880645	80	0.3196553	100	0.3453945
Bis(2-chloroethoxy)methane	10	0.2622531	20	0.2807094	40	0.3186919	60	0.3235247	80	0.3546624	100	0.3769803
Benzoic acid	10	5.420625E-02	20	7.828448E-02	40	0.1204656	60	0.1273191	80	0.1393196	100	0.1677652
2,4-Dichlorophenol	10	0.2664729	20	0.2725842	40	0.3153047	60	0.3372677	80	0.3766728	100	0.4147365
1,2,4-Trichlorobenzene	10	0.3312014	20	0.336356	40	0.3837125	60	0.3840074	80	0.4288747	100	0.4601657
Naphthalene	10	0.7964296	20	0.8376762	40	0.9928812	60	1.052384	80	1.205695	100	1.325865
4-Chloroaniline	10	~~0.179541~~	20	~~0.175437~~	40	~~0.092547~~	60	~~9.286072E-02~~	80	~~0.0912072~~	100	~~0.1057449~~
Hexachlorobutadiene	10	0.1589555	20	0.1595612	40	0.1802965	60	0.1834688	80	0.2031555	100	0.215099
4-Chloro-3-methylphenol	10	0.2357811	20	0.2428457	40	0.2767672	60	0.276446	80	0.3044476	100	0.3250906
2-Methylnaphthalene	10	0.5705598	20	0.5978335	40	0.7079957	60	0.7548038	80	0.8625851	100	0.9412813
1-Methylnaphthalene	10	0.5395151	20	0.5638766	40	0.6650816	60	0.7003513	80	0.7971531	100	0.8819486
Hexachlorocyclopentadiene	10	3.219787E-02	20	4.250919E-02	40	0.0654179	60	0.0804253	80	0.1033093	100	0.1214694
2,4,6-Trichlorophenol	10	0.3415704	20	0.3631673	40	0.4148521	60	0.43735	80	0.4718347	100	0.5079515
2,4,5-Trichlorophenol	10	0.3636087	20	0.3785084	40	0.4254546	60	0.4448516	80	0.4917215	100	0.5307417

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 03/21/07 15:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Chloronaphthalene	10	0.9235623	20	0.9828663	40	1.12137	60	1.178541	80	1.280844	100	1.374633
2-Nitroaniline	10	0.2143819	20	0.2312145	40	0.2445302	60	0.2379132	80	0.24532	100	0.2606722
Dimethylphthalate	10	1.096471	20	1.138296	40	1.277901	60	1.33751	80	1.460442	100	1.57468
2,6-Dinitrotoluene	10	0.2235679	20	0.2371856	40	0.2633843	60	0.2771031	80	0.2958	100	0.3180129
Acenaphthylene	10	1.417941	20	1.544206	40	1.791922	60	1.873148	80	1.935014	100	1.88481
3-Nitroaniline	10	~~0.1370399~~	20	~~0.091875~~	40	~~0.0394878~~	60	~~3.023958E-02~~	80	~~3.154384E-02~~	100	~~3.630732E-02~~
Acenaphthene	10	0.8455192	20	0.9027514	40	1.071605	60	1.151958	80	1.293024	100	1.404619
2,4-Dinitrophenol	10	6.385995E-03	20	2.392502E-02	40	7.099545E-02	60	0.106725	80	0.1336054	100	0.1609978
4-Nitrophenol	10	0.1122417	20	0.1378146	40	0.1666418	60	0.1721622	80	0.1794356	100	0.1910457
Dibenzofuran	10	1.359775	20	1.441303	40	1.647212	60	1.731796	80	1.92202	100	2.10058
2,4-Dinitrotoluene	10	0.2964665	20	0.3217167	40	0.3648466	60	0.3822075	80	0.4142998	100	0.4495206
Diethylphthalate	10	1.104192	20	1.150089	40	1.296484	60	1.372318	80	1.485428	100	1.58883
4-Chlorophenyl-phenylether	10	0.5905527	20	0.6260877	40	0.7190286	60	0.7735153	80	0.8288694	100	0.8986036
Fluorene	10	1.099878	20	1.178548	40	1.364813	60	1.47709	80	1.586887	100	1.698167
4-Nitroaniline	10	~~0.142689~~	20	~~0.1060081~~	40	~~7.843257E-02~~	60	~~4.722687E-02~~	80	~~3.818215E-02~~	100	~~2.895446E-02~~
2-Methyl-4,6-dinitrophenol	10	3.055453E-02	20	6.691767E-02	40	0.1383628	60	0.1866384	80	0.2186475	100	0.2532472
N-Nitrosodiphenylamine	10	0.7660336	20	0.7572631	40	0.7738318	60	0.7413204	80	0.717091	100	0.719675
DPH (as Azobenzene)	10	0.2446997	20	0.2624321	40	0.2967846	60	0.3120429	80	0.3342581	100	0.3601453
4-Bromophenyl-phenylether	10	0.2267411	20	0.2417085	40	0.2747746	60	0.2818411	80	0.3096112	100	0.330149
Hexachlorobenzene	10	0.3581771	20	0.3756193	40	0.4286723	60	0.449197	80	0.490724	100	0.5309026
Pentachlorophenol	10	5.121704E-02	20	9.206092E-02	40	0.1485352	60	0.173878	80	0.2033403	100	0.2294878
Phenanthrene	10	0.9482331	20	1.011253	40	1.166942	60	1.245697	80	1.382086	100	1.505673
Anthracene	10	0.9621873	20	1.012717	40	1.191867	60	1.255397	80	1.408142	100	1.520666
Carbazole	10	~~0.7195315~~	20	~~0.5925794~~	40	~~0.3776281~~	60	~~0.1653179~~	80	~~0.1540938~~	100	~~0.1205292~~
Di-n-butylphthalate	10	1.014933	20	1.082883	40	1.275373	60	1.342931	80	1.494827	100	1.637363
Fluoranthene	10	1.109805	20	1.183234	40	1.373091	60	1.438428	80	1.589489	100	1.731895
Benzidine	10	4.575266E-02	20	1.809182E-02	40	0.0116985	60	0.0209768	80	2.720864E-02	100	2.666237E-02
Pyrene	10	1.146685	20	1.21774	40	1.407485	60	1.477703	80	1.648571	100	1.771148
1,1'-Biphenyl	10	~~1.166605~~	20	~~1.285839~~	40	~~1.489114~~	60	~~1.594866~~	80	~~1.765044~~	100	~~1.934115~~
Atrazine	10	~~0.2068852~~	20	~~0.2069347~~	40	~~0.2031736~~	60	~~0.1801113~~	80	~~0.1693838~~	100	~~0.1629258~~
Butylbenzylphthalate	10	0.4669246	20	0.4951383	40	0.5758001	60	0.6060556	80	0.6836416	100	0.7464738

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 03/21/07 15:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde	10	~~0.2131012~~	20	~~0.2110231~~	40	~~0.2115142~~	60	~~0.2140499~~	80	~~0.20004~~	100	~~0.1767389~~
3,3'-Dichlorobenzidine	10	0.3214466	20	0.2432325	40	0.2146819	60	0.216663	80	0.2190349	100	0.2266882
Caprolactam	10	~~6.744799E-02~~	20	~~7.258472E-02~~	40	~~7.350476E-02~~	60	~~6.667202E-02~~	80	~~5.780852E-02~~	100	~~5.839232E-02~~
Benzo(a)anthracene	10	0.9785121	20	1.014556	40	1.086382	60	1.089359	80	1.150993	100	1.188594
Bis(2-ethylhexyl)phthalate	10	0.4982859	20	0.5316069	40	0.611042	60	0.636532	80	0.7034801	100	0.7470657
Chrysene	10	0.8200788	20	0.8792293	40	0.9790413	60	1.005917	80	1.077153	100	1.131666
Di-n-octylphthalate	10	0.7996439	20	0.8541543	40	0.9852547	60	1.024149	80	1.125771	100	1.193707
Benzo(b)fluoranthene	10	0.9301961	20	1.034896	40	1.234066	60	1.259906	80	1.43097	100	1.505258
Benzo(k)fluoranthene	10	0.9746861	20	1.033897	40	1.159435	60	1.232299	80	1.294503	100	1.387729
Benzo(a)pyrene	10	0.8809284	20	0.9288401	40	1.069122	60	1.12182	80	1.22913	100	1.318431
Indeno(1,2,3-cd)pyrene	10	0.8880405	20	1.001768	40	1.214646	60	1.333883	80	1.479915	100	1.593001
Dibenzo(a,h)anthracene	10	0.7362988	20	0.853821	40	1.056806	60	1.170103	80	1.31493	100	1.412271
Benzo(g,h,i)perylene	10	0.6960555	20	0.7710647	40	0.909895	60	0.9742602	80	1.08592	100	1.172538
Acetophenone	10	~~1.261048~~	20	~~1.297312~~	40	~~1.454269~~	60	~~1.469651~~	80	~~1.58126~~	100	~~1.661658~~
Aniline	10		20		40		60		80		100	
2-Fluorophenol	10	0.7478325	20	0.7179837	40	0.8583787	60	0.8400306	80	0.8767563	100	0.9026645
Phenol-d5	10	1.015182	20	1.047234	40	1.172724	60	1.18645	80	1.254473	100	1.32431
Nitrobenzene-d5	10	0.2674827	20	0.2689473	40	0.2911334	60	0.2910397	80	0.3079106	100	0.3202769
2-Fluorobiphenyl	10	1.164256	20	1.234841	40	1.410497	60	1.485003	80	1.629347	100	1.753027
2,4,6-Tribromophenol	10	0.2778935	20	0.3057267	40	0.3698492	60	0.403196	80	0.4482487	100	0.4941621
Terphenyl-d14	10	0.9836872	20	1.043756	40	1.206594	60	1.268472	80	1.409587	100	1.503944

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 03/21/07 15:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-Nitrosodimethylamine												
Pyridine	10	~~0.612822~~	20	~~0.7019631~~	40	~~0.812886~~	60	~~0.8216954~~	80	~~1.016892~~	100	~~0.9954545~~
Phenol												
Bis(2-chloroethyl)ether												
2-Chlorophenol												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Benzyl alcohol												
1,2-Dichlorobenzene												
2-Methylphenol												
Bis(2-chloroisopropyl)ether												
3 & 4-Methylphenol												
N-Nitroso-di-n-propylamine												
Hexachloroethane												
Nitrobenzene												
Isophorone												
2-Nitrophenol												
2,4-Dimethylphenol												
Bis(2-chloroethoxy)methane												
Benzoic acid												
2,4-Dichlorophenol												
1,2,4-Trichlorobenzene												
Naphthalene												
4-Chloroaniline	10	0.2496734	20	0.2792776	40	0.2976466	60	0.3227689	80	0.3867687	100	0.4042363
Hexachlorobutadiene												
4-Chloro-3-methylphenol												
2-Methylnaphthalene												
1-Methylnaphthalene												
Hexachlorocyclopentadiene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 03/21/07 15:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Chloronaphthalene												
2-Nitroaniline	10	~~0.1872604~~	20	~~0.1909853~~	40	~~0.2198414~~	60	~~0.2273159~~	80	~~0.2660772~~	100	~~0.2606538~~
Dimethylphthalate												
2,6-Dinitrotoluene												
Acenaphthylene												
3-Nitroaniline	10	0.1495104	20	0.1678096	40	0.2013626	60	0.2188186	80	0.2609767	100	0.2640591
Acenaphthene												
2,4-Dinitrophenol												
4-Nitrophenol												
Dibenzofuran												
2,4-Dinitrotoluene												
Diethylphthalate												
4-Chlorophenyl-phenylether												
Fluorene												
4-Nitroaniline	10	0.1351721	20	0.1360549	40	0.1231585	60	0.1416808	80	0.1639843	100	0.1623531
2-Methyl-4,6-dinitrophenol												
N-Nitrosodiphenylamine												
DPH (as Azobenzene)	10	~~0.2398984~~	20	~~0.235901~~	40	~~0.2721325~~	60	~~0.2917763~~	80	~~0.352324~~	100	~~0.3561579~~
4-Bromophenyl-phenylether												
Hexachlorobenzene												
Pentachlorophenol												
Phenanthrene												
Anthracene												
Carbazole	10	0.7298	20	0.7639327	40	0.8687843	60	0.9527825	80	1.079417	100	1.085215
Di-n-butylphthalate												
Fluoranthene												
Benzidine												
Pyrene												
1,1'-Biphenyl												
Atrazine												
Butylbenzylphthalate												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0703009	Instrument:	JSVGCMS1
Matrix:	Water	Calibration Date:	03/21/07 15:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde												
3,3'-Dichlorobenzidine												
Caprolactam												
Benzo(a)anthracene												
Bis(2-ethylhexyl)phthalate												
Chrysene												
Di-n-octylphthalate												
Benzo(b)fluoranthene												
Benzo(k)fluoranthene												
Benzo(a)pyrene												
Indeno(1,2,3-cd)pyrene												
Dibenzo(a,h)anthracene												
Benzo(g,h,i)perylene												
Acetophenone												
Aniline	10		20		40		60		80		100	
2-Fluorophenol												
Phenol-d5												
Nitrobenzene-d5												
2-Fluorobiphenyl												
2,4,6-Tribromophenol												
Terphenyl-d14												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 03/21/07 15:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
N-Nitrosodimethylamine	0.4064784	7.186043	2.69	1.356797E-02			15.4	
Pyridine	0.7761116	6.494474	2.711667	0.1497459			15.4	
Phenol	1.244833	10.45887	4.535	0.1208313			CCC (30)	
Bis(2-chloroethyl)ether	0.8789951	3.639398	4.605	0.1205878			15.4	
2-Chlorophenol	1.165916	10.10876	4.685	0.1186676			15.4	
1,3-Dichlorobenzene	1.428276	9.879612	4.816667	0.1055035			15.4	
1,4-Dichlorobenzene	1.484669	10.33531	4.88	1.602522E-02			CCC (30)	
Benzyl alcohol	0.5866488	10.25004	4.98	0.0140797			15.4	
1,2-Dichlorobenzene	1.392236	9.799571	5.02	1.396751E-02			15.4	
2-Methylphenol	0.9384404	15.99222	5.075	0.108004			15.4	*
Bis(2-chloroisopropyl)ether	0.909564	10.60867	5.083333	0.1006826			15.4	
3 & 4-Methylphenol	1.23192	21.13029	5.213333	9.875395E-02	0.9909554		0.99	
N-Nitroso-di-n-propylamine	0.7105491	11.60925	5.213333	9.875395E-02			SPCC (0.05)	
Hexachloroethane	0.5332189	8.955669	5.33	7.135707E-03			15.4	
Nitrobenzene	0.2815375	8.041847	5.393333	9.721705E-02			15.4	
Isophorone	0.5176145	8.443708	5.605	9.721768E-02			15.4	
2-Nitrophenol	0.1741809	15.59785	5.69	2.580315E-02			CCC (30)	
2,4-Dimethylphenol	0.2842598	15.25923	5.711667	6.957869E-02			15.4	
Bis(2-chloroethoxy)methane	0.3194703	13.52813	5.791667	7.439474E-02			15.4	
Benzoic acid	0.11456	36.20187	5.813333	0.5618774		0.9984951	0.99	
2,4-Dichlorophenol	0.3305065	17.62073	5.921667	7.110864E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.3873863	13.06296	6	0			15.4	
Naphthalene	1.035155	19.87637	6.081667	0.0687001		0.9993795	0.99	
4-Chloroaniline	0.3233953	18.85787	6.12	1.277828E-02		0.9973456	0.99	
Hexachlorobutadiene	0.1834228	12.36164	6.186667	8.404824E-02			CCC (30)	
4-Chloro-3-methylphenol	0.2768964	12.43926	6.595	8.085432E-02			CCC (30)	
2-Methylnaphthalene	0.7391765	19.67018	6.751667	5.981985E-02		0.9993443	0.99	
1-Methylnaphthalene	0.691321	19.14602	6.851667	5.570865E-02		0.9995047	0.99	
Hexachlorocyclopentadiene	7.422149E-02	46.54049	6.901667	5.736552E-02		0.9961949	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4227877	14.99069	7.031667	5.692433E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4391477	14.67183	7.078333	5.916799E-02			15.4	
2-Chloronaphthalene	1.143636	15.05292	7.241666	5.328782E-02			15.4	

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 03/21/07 15:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2-Nitroaniline	0.2390053	6.503556	7.345	7.528777E-02			15.4	
Dimethylphthalate	1.314217	14.00759	7.495	7.386862E-02			15.4	
2,6-Dinitrotoluene	0.2691756	13.18055	7.571667	9.828218E-02			15.4	
Acenaphthylene	1.741173	12.08744	7.658333	5.452423E-02			15.4	
3-Nitroaniline	0.2104228	22.40295	7.748333	9.689522E-02		0.9967199	0.99	
Acenaphthene	1.111579	19.56215	7.828333	0.0517998			CCC (30)	
2,4-Dinitrophenol	8.377244E-02	73.01667	7.855	6.903545E-02		0.9931913	SPCC (0.05)	
4-Nitrophenol	0.1598903	18.35521	7.925	7.111193E-02	0.9975948		SPCC (0.05)	
Dibenzofuran	1.700448	16.55486	7.998333	5.079035E-02		0.9997797	0.99	
2,4-Dinitrotoluene	0.3715096	15.31508	7.978333	9.457219E-02			15.4	
Diethylphthalate	1.33289	14.13069	8.193333	6.575804E-02			15.4	
4-Chlorophenyl-phenylether	0.7394429	15.99283	8.321666	5.238249E-02	0.9932165		0.99	
Fluorene	1.400897	16.59158	8.343334	6.107992E-02	0.9944208		0.99	
4-Nitroaniline	0.143734	11.28964	8.363333	6.333985E-02			15.4	
2-Methyl-4,6-dinitrophenol	0.1490613	58.49609	8.391667	4.657145E-02		0.9968581	0.99	
N-Nitrosodiphenylamine	0.7458691	3.202818	8.443333	5.741039E-02			CCC (30)	
DPH (as Azobenzene)	0.3017271	14.36874	8.483333	6.010157E-02			15.4	
4-Bromophenyl-phenylether	0.2774709	14.13092	8.811667	4.213113E-02			15.4	
Hexachlorobenzene	0.4388821	15.0732	8.898333	4.292155E-02			15.4	
Pentachlorophenol	0.1497532	45.14257	9.095	6.060481E-02		0.9991095	CCC (30)	*
Phenanthrene	1.209981	17.65556	9.31	1.441412E-02	0.9902677		0.99	
Anthracene	1.225163	17.77466	9.361666	4.699221E-02	0.9906432		0.99	
Carbazole	0.9133219	16.72539	9.515	5.628192E-02		0.9977415	0.99	
Di-n-butylphthalate	1.308052	18.16333	9.811667	0.0403705		0.9997178	0.99	
Fluoranthene	1.404324	16.83146	10.50333	4.956469E-02			CCC (30)	
Benzidine	2.506513E-02	46.49656	10.61667	5.014148E-02			15.4	*
Pyrene	1.444889	16.69453	10.735	5.038087E-02	0.9915806		0.99	
1,1'-Biphenyl					0		0.99	*
Atrazine							15.4	
Butylbenzylphthalate	0.5956723	18.02875	11.32	1.343933E-02		0.9995803	0.99	
Benzaldehyde							15.4	
3,3'-Dichlorobenzidine	0.2402912	17.10404	11.88167	2.902784E-02	0.9957291		0.99	

INITIAL CALIBRATION DATA (Continued)
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Water
Calibration Date: 03/21/07 15:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Caprolactam							15.4	
Benzo(a)anthracene	1.084733	7.306694	11.925	4.187558E-02			15.4	
Bis(2-ethylhexyl)phthalate	0.6213354	15.45146	11.86167	3.403849E-02			15.4	*
Chrysene	0.9821809	11.94442	11.965	3.948732E-02			15.4	
Di-n-octylphthalate	0.9971133	15.24301	12.47	0.0222082			CCC (30)	
Benzo(b)fluoranthene	1.232549	17.95859	12.94833	5.853278E-02	0.9929904		0.99	
Benzo(k)fluoranthene	1.180425	13.2827	12.97667	6.247862E-02			15.4	
Benzo(a)pyrene	1.091379	15.47704	13.28667	6.258593E-02			CCC (30)	
Indeno(1,2,3-cd)pyrene	1.251876	21.77109	14.635	9.324564E-02	0.992083		0.99	
Dibenzo(a,h)anthracene	1.090705	24.0083	14.63167	7.872458E-02	0.9915128		0.99	
Benzo(g,h,i)perylene	0.9349556	19.44983	15.02	8.504039E-02	0.9913901		0.99	
Acetophenone							15.4	
Aniline							15.4	
2-Fluorophenol	0.8239411	8.992874	3.75	0			15.4	
Phenol-d5	1.166729	10.15587	4.523333	0.1132715			15.4	
Nitrobenzene-d5	0.2911318	7.176169	5.375	0.1014843			15.4	
2-Fluorobiphenyl	1.446162	15.60463	7.103333	7.358832E-02	0.9925795		0.99	
2,4,6-Tribromophenol	0.3831794	21.58798	8.583333	0.0621781		0.9997381	0.99	
Terphenyl-d14	1.236007	16.36077	10.855	5.091891E-02	0.9925951		0.99	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5CP029.D	Injection Date:	03/22/07
Instrument ID:	JSVGCMS1	Injection Time:	12:43
Sequence:	BA00466	Lab Sample ID:	BA00466-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.5	PASS
68	Less than 2% of 69	1.05	PASS
69	Less than 101% of 198	42	PASS
70	Less than 2% of 69	0.449	PASS
127	40 - 60% of 198	46.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	30	PASS
365	1 - 100% of 198	4.76	PASS
443	17 - 23% of 442	21.1	PASS
441	0.01 - 100% of 443	74.7	PASS
442	40 - 100% of 198	66.5	PASS

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0703009
Lab File ID:	5CP030.D	Calibration Date:	03/21/07 15:47
Sequence:	BA00466	Injection Date:	03/22/07
Lab Sample ID:	BA00466-CCV3	Injection Time:	13:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Phenol	A	40.0	38.3	1.244833	1.19209		-4.2	20	
Bis(2-chloroethyl)ether	A	40.0	38.9	0.8789951	0.855808		-2.6	20	
2-Chlorophenol	A	40.0	38.8	1.165916	1.13162		-2.9	20	
2-Methylphenol	A	40.0	37.8	0.9384404	0.886236		-5.6	20	
Bis(2-chloroisopropyl)ether	A	40.0	37.4	0.909564	0.849906		-6.6	20	
3 & 4-Methylphenol	L	40.0	37.3	1.23192	1.19079		-6.8	20	
N-Nitroso-di-n-propylamine	A	40.0	40.7	0.7105491	0.723186	0.05	1.8	20	
Hexachloroethane	A	40.0	41.4	0.5332189	0.552375		3.6	20	
Nitrobenzene	A	40.0	39.6	0.2815375	0.278593		-1.0	20	
Isophorone	A	40.0	40.1	0.5176145	0.518606		0.2	20	
2-Nitrophenol	A	40.0	38.8	0.1741809	0.16885		-3.1	20	
2,4-Dimethylphenol	A	40.0	36.8	0.2842598	0.261871		-7.9	20	
Bis(2-chloroethoxy)methane	A	40.0	39.0	0.3194703	0.311485		-2.5	20	
2,4-Dichlorophenol	A	40.0	37.6	0.3305065	0.310942		-5.9		
Naphthalene	Q	40.0	41.5	1.035155	1.00274		3.8	20	
Hexachlorobutadiene	A	40.0	45.0	0.1834228	0.206127		12.4		
2-Methylnaphthalene	Q	40.0	41.7	0.7391765	0.724693		4.3	20	
2,4,6-Trichlorophenol	A	40.0	40.0	0.4227877	0.423367		0.1	20	
2,4,5-Trichlorophenol	A	40.0	38.4	0.4391477	0.422124		-3.9	20	
2-Chloronaphthalene	A	40.0	38.5	1.143636	1.09983		-3.8	20	
2-Nitroaniline	A	40.0	39.4	0.2390053	0.235165		-1.6		
Dimethylphthalate	A	40.0	38.6	1.314217	1.26819		-3.5		
2,6-Dinitrotoluene	A	40.0	37.6	0.2691756	0.252893		-6.0	20	
Acenaphthylene	A	40.0	39.9	1.741173	1.73759		-0.2	20	
3-Nitroaniline	Q	40.0	31.7	0.2104228	0.0483539		-20.8		
Acenaphthene	A	40.0	38.4	1.111579	1.06561		-4.1	20	
2,4-Dinitrophenol	Q	40.0	53.6	8.377244E-02	0.127057	0.05	34.0	20	*
4-Nitrophenol	L	40.0	38.0	0.1598903	0.15888	0.05	-4.9		
Dibenzofuran	Q	40.0	40.8	1.700448	1.6332		2.0	20	

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0703009
Lab File ID:	5CP030.D	Calibration Date:	03/21/07 15:47
Sequence:	BA00466	Injection Date:	03/22/07
Lab Sample ID:	BA00466-CCV3	Injection Time:	13:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	40.0	37.5	0.3715096	0.347882		-6.4	20
Diethylphthalate	A	40.0	38.1	1.33289	1.26879		-4.8	
4-Chlorophenyl-phenylether	L	40.0	39.0	0.7394429	0.747203		-2.6	20
Fluorene	L	40.0	37.4	1.400897	1.34978		-6.5	20
4-Nitroaniline	A	40.0	20.3	0.143734	0.0373551		-74.0	
2-Methyl-4,6-dinitrophenol	Q	40.0	52.6	0.1490613	0.220962		31.4	20 *
N-Nitrosodiphenylamine	A	40.0	39.6	0.7458691	0.739137		-0.9	
4-Bromophenyl-phenylether	A	40.0	40.2	0.2774709	0.278751		0.5	20
Pentachlorophenol	Q	40.0	43.0	0.1497532	0.160825		7.6	20
Phenanthrene	L	40.0	38.0	1.209981	1.1861		-5.0	20
Anthracene	L	40.0	37.5	1.225163	1.18131		-6.4	20
Carbazole	Q	40.0	16.2	0.9133219	0.143985		-59.4	
Di-n-butylphthalate	Q	40.0	40.8	1.308052	1.26081		2.0	
Fluoranthene	A	40.0	40.7	1.404324	1.42927		1.8	20
Pyrene	L	40.0	39.3	1.444889	1.47549		-1.7	20
1,1'-Biphenyl	L	40.0	37.3		1.48145		-6.6	
Atrazine	A	40.0	36.6		0.172401			20
Butylbenzylphthalate	Q	40.0	40.5	0.5956723	0.564555		1.2	
Benzaldehyde	A	40.0	111		0.56479			
3,3'-Dichlorobenzidine	L	40.0	40.6	0.2402912	0.231449		1.5	
Caprolactam	A	40.0	40.8		0.0673703			
Benzo(a)anthracene	A	40.0	39.8	1.084733	1.07916		-0.5	20
Bis(2-ethylhexyl)phthalate	A	40.0	36.4	0.6213354	0.565998		-8.9	
Chrysene	A	40.0	39.8	0.9821809	0.977542		-0.5	20
Di-n-octylphthalate	A	40.0	35.6	0.9971133	0.88841		-10.9	
Benzo(b)fluoranthene	L	40.0	39.1	1.232549	1.25614		-2.4	20
Benzo(k)fluoranthene	A	40.0	41.9	1.180425	1.23641		4.7	20
Benzo(a)pyrene	A	40.0	39.8	1.091379	1.08616		-0.5	20
Indeno(1,2,3-cd)pyrene	L	40.0	40.0	1.251876	1.32561		-0.08	20

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0703009
Lab File ID:	5CP030.D	Calibration Date:	03/21/07 15:47
Sequence:	BA00466	Injection Date:	03/22/07
Lab Sample ID:	BA00466-CCV3	Injection Time:	13:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzo(a,h)anthracene	L	40.0	39.6	1.090705	1.14837		-1.0	20
Benzo(g,h,i)perylene	L	40.0	39.2	0.9349556	0.958024		-2.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0703009
Lab File ID:	5CP024.D	Calibration Date:	03/21/07 15:47
Sequence:	BA00466	Injection Date:	03/22/07
Lab Sample ID:	BA00466-CCV2	Injection Time:	09:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitroaniline	A	40.0	38.1	0.2390053	0.214816		-10.1	
3-Nitroaniline	Q	40.0	36.9	0.2104228	0.185194		-7.7	
4-Nitroaniline	A	40.0	26.8	0.143734	0.0961968		-33.1	
Carbazole	Q	40.0	37.6	0.9133219	0.831815		-6.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00466	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0703009

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (7C15003-BLK1)			Lab File ID: 5CP033.D			Analyzed: 03/22/07 14:14			
1,4-Dichlorobenzene-d4	307457	4.86	357496	4.86	86	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	1116727	6.06	1315401	6.06	85	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	771476	7.79	858277	7.79	90	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	1383982	9.28	1504620	9.28	92	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1841481	11.93	2244664	11.93	82	50 - 200	0.0000	+/-0.05	
Perylene-d12	1708355	13.34	1981214	13.34	86	50 - 200	0.0000	+/-0.05	
JAX47-MW31D-030709 (B702192-03)			Lab File ID: 5CP040.D			Analyzed: 03/22/07 17:03			
1,4-Dichlorobenzene-d4	311188	4.86	357496	4.86	87	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	1140825	6.06	1315401	6.06	87	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	784202	7.79	858277	7.79	91	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	1416399	9.28	1504620	9.28	94	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1872337	11.93	2244664	11.93	83	50 - 200	0.0000	+/-0.05	
Perylene-d12	1719809	13.34	1981214	13.34	87	50 - 200	0.0000	+/-0.05	
JAX47-MW30S030907 (B702192-02)			Lab File ID: 5CP041.D			Analyzed: 03/22/07 17:27			
1,4-Dichlorobenzene-d4	307079	4.86	357496	4.86	86	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	1105857	6.06	1315401	6.06	84	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	755030	7.79	858277	7.79	88	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	1352430	9.28	1504620	9.28	90	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1800970	11.93	2244664	11.93	80	50 - 200	0.0000	+/-0.05	
Perylene-d12	1679783	13.34	1981214	13.34	85	50 - 200	0.0000	+/-0.05	
JAX47-MW29S030907 (B702192-01)			Lab File ID: 5CP042.D			Analyzed: 03/22/07 17:51			
1,4-Dichlorobenzene-d4	283778	4.86	357496	4.86	79	50 - 200	0.0000	+/-0.05	
Naphthalene-d8	1025672	6.06	1315401	6.06	78	50 - 200	0.0000	+/-0.05	
Acenaphthene-d10	706903	7.79	858277	7.79	82	50 - 200	0.0000	+/-0.05	
Phenanthrene-d10	1279641	9.28	1504620	9.28	85	50 - 200	0.0000	+/-0.05	
Chrysene-d12	1723944	11.93	2244664	11.93	77	50 - 200	0.0000	+/-0.05	
Perylene-d12	1609408	13.34	1981214	13.34	81	50 - 200	0.0000	+/-0.05	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**APRIL 13, 2007**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
CTO – 047 NAS JACKSONVILLE
SAMPLE DELIVERY GROUP (SDG) – BR006-020

SAMPLES: 3/Aqueous/

JAX47-MW29S-030907 JAX47-MW30S-030907
JAX47-MW31D-030709

Overview

The sample set for CTO 047, NAS Jacksonville, SDG BR006-020, consists of three (3) aqueous environmental samples. No field duplicate pairs are included within this SDG.

All samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS on March 9, 2007 and analyzed by Environmental Conservation Laboratories, Inc under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Arsenic analyses were conducted using SW-846 method 6010.

Metals analyses were conducted using Inductively Coupled Plasma (ICP) instrumentation.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Verification Results
* • Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike/Matrix Spike Duplicate Results
* • Laboratory Control Sample/ Laboratory Control Sample Duplicate Results
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Notes

None.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004 and the DOD document entitled "Quality System Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DOD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O - Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-020 MEDIA: WATER DATA FRACTION: M

nsample	JAX47-MW29S-030907	nsample	JAX47-MW30S-030907	nsample	JAX47-MW31D-030709
samp_date	3/9/2007	samp_date	3/9/2007	samp_date	3/9/2007
lab_id	B702192-01	lab_id	B702192-02	lab_id	B702192-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW29S-030907

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Ground Water
Laboratory ID: B702192-01
File ID: 031507a-075
Sampled: 03/09/07 11:10
Prepared: 03/14/07 13:33
Analyzed: 03/15/07 18:38
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 7C14016
Sequence: BA00433
Calibration: 0703008
Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	4.0	1	U	4.0	10.0	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW30S-030907

Laboratory: ENCO Jacksonville | SDG: BR006-020

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B702192-02 | File ID: 031507a-076

Sampled: 03/09/07 12:50 | Prepared: 03/14/07 13:33 | Analyzed: 03/15/07 18:45

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 7C14016 | Sequence: BA00433 | Calibration: 0703008 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	4.0	1	U	4.0	10.0	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-MW31D-030709

Laboratory: ENCO Jacksonville | SDG: BR006-020

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B702192-03 | File ID: 031507a-077

Sampled: 03/09/07 14:30 | Prepared: 03/14/07 13:33 | Analyzed: 03/15/07 18:52

Solids: 0.00 | Preparation: EPA 3005A | Initial/Final: 50 mL / 50 mL

Batch: 7C14016 | Sequence: BA00433 | Calibration: 0703008 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	4.0	1	U	4.0	10.0	EPA 6010B

APPENDIX C
SUPPORT DOCUMENTATION

Volatiles

Method: Samples were received into the laboratory in satisfactory condition. The samples were analyzed by SW846 Method 8260B.

Comments: The analyses for these samples were completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- Xylenes and Toluene were detected in the method blank, JAX47-MW29S-030907, JAX47-MW30S-030907 and JAX47-MW31D-030907 at a concentration above the Method Detection Limit but below the Method Reporting Limit. The sample results for these compounds at or below the MRL should be considered estimated.

- Matrix Spike, Matrix Spike Duplicate and Laboratory Control Standard was outside the (below) DoD QSM control limits for Bromomethane. This appears to be a random problem that illustrates an instrument problem during this particular analysis run. This appears to be a coelution of water with Bromomethane at that retention time. System maintenance did not correct this problem however it is being actively addressed.

Metals

Method: The samples were extracted by USEPA Method 3050 and analyzed by EPA Method 6010.
Comments: The analyses for these samples were satisfactorily completed within method holding time and met the corresponding specifications.

Semi-Volatiles

Method: Samples were received into the laboratory in satisfactory condition. The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8081c.

Comments: The analyses for these samples were satisfactorily completed within method holding time and met the corresponding specifications with the following note/exceptions:

- Low level positive recovery for Delta-BHC was detected in the laboratory method blank JAX47-MW29S-030907, JAX47-MW30S-030907 and JAX47-MW31D-030907. Sample results for this compound should be considered estimated.

Method: Samples were received into the laboratory in satisfactory condition. The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8270c.

Comments: The analyses for these samples were completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- Matrix Spike and Matrix Spike Duplicate were outside (above) the DoD QSM control limits for 2-methyl-4,6 dinitrophenol, n-nitrosodiphenylamine, fluoranthene, benzo(a)anthracene, chrysene and benzo(a) pyrene. Samples within this batch were non-detect for those specific compounds.

- Laboratory Control Standard was outside (above) the DoD QSM control limits for n-nitrosodiphenylamine. Samples within this batch were non-detect for this compound.

- Continuing Calibration Check Standard for 2-Methyl-4,6 dintrophenol was outside (above) the DoD QSM control limits. There was no detectible compound in the samples following this continuing calibration check.

- Initial Calibration Standard was above DoD QSM control limits for 2-methylphenol, benzidine, Bis(2-ethylhexyl) phthalate. Samples were clean for those compounds and accepted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.04.11 14:32:33 -04'00'

Christina M. Tompkins
Project Manager

B702192

TETRA TECH NUS, INC. CHAIN OF CUSTODY NUMBER 2548 PAGE 1 OF 1

PROJECT NO: 112G00417	FACILITY: NAS JAX-PSC 47	PROJECT MANAGER Mark Petrison	PHONE NUMBER 904-636-6125	LABORATORY NAME AND CONTACT: ENCO
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Chuck McTz	PHONE NUMBER 904-636-6125	ADDRESS
		CARRIER/WAYBILL NUMBER Drop Off		CITY, STATE Jacksonville, FL

STANDARD TAT ☒ 21 Days
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G P G G
PRESERVATIVE USED: — — HCl HNO3

DATE YEAR 2007	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8081A-TCL PEST.	8270C TCL SVOCs EXTENDED	8260B TCL VOCs	6010B (AS)	8081A-TCL PEST - SOILS	6010B(AS)-soils	COMMENTS
3-9	1110	JAX47-MW29S-030907		1	1	GW	G	6	✓	✓	✓	✓			
	1250	-MW30S-		-	-	GW	G	6	✓	✓	✓	✓			
	1430	-MW31D-		-	-	GW	G	17	✓	✓	✓	✓			* MS/MSD
		JAX47-SB114-01-030907		0	1	SO	G	1					✓	✓	
		SB114-05		4.5	5			1					✓		
		SB115-01		0	1			1					✓		
		SB115-05		4.5	5			1					✓		
		SB116-01		0	1			1					✓		
		SB117-01		0	1			1					✓		
		SB119-01		0	1			1					✓		Cooled To 4° C
		SB119-05		4	5			4					✓	*	on ice
		SB120-01		0	1			1					✓		
		SB121-01		0	1			1					✓		

1. RELINQUISHED BY Chuck McTz	DATE 3-9-07	TIME	1. RECEIVED BY	DATE 3-9-07	TIME 1523
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY Beth Sansone	DATE 3/9/07	TIME 1523

COMMENTS

DISTRIBUTION WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

HOLDTIME

SDG BR006-020

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/14/2007	3/15/2007	5	1	6
M	UG/L	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/14/2007	3/15/2007	5	1	6
M	UG/L	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/14/2007	3/15/2007	5	1	6
OS	%	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	%	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	%	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	UG/L	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	UG/L	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OS	UG/L	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/15/2007	3/22/2007	6	7	13
OV	%	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	%	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	%	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	UG/L	JAX47-MW29-S030907	B702192-01	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	UG/L	JAX47-MW30-S030907	B702192-02	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14
OV	UG/L	JAX47-MW31D-030709	B702192-03	NM	3/9/2007	3/22/2007	3/23/2007	13	1	14

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-020

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C14016 Batch Matrix: Water Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C14016-BLK1	031507a-013	03/14/07 13:33	
LCS	7C14016-BS1	031507a-014	03/14/07 13:33	
A701088-05	7C14016-MS1	031507a-015	03/14/07 13:33	
A701088-05	7C14016-MSD1	031507a-016	03/14/07 13:33	
JAX47-MW29S-030907	B702192-01	031507a-075	03/14/07 13:33	
JAX47-MW30S-030907	B702192-02	031507a-076	03/14/07 13:33	
JAX47-MW31D-030709	B702192-03	031507a-077	03/14/07 13:33	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-020
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00433	Instrument:	JMICP1
Matrix:	Water	Calibration:	0703008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00433-ICB1	031507a-001	03/15/07 09:39
Cal Standard	BA00433-CAL1	031507a-002	03/15/07 09:46
Instrument Blank	BA00433-IBL1	031507a-003	03/15/07 09:54
Low Cal Check	BA00433-LCV1	031507a-004	03/15/07 10:01
Secondary Cal Check	BA00433-SCV1	031507a-005	03/15/07 10:08
Initial Cal Check	BA00433-ICV1	031507a-006	03/15/07 10:14
Interference Check A	BA00433-IFA1	031507a-008	03/15/07 10:28
Blank	7C14016-BLK1	031507a-013	03/15/07 11:02
LCS	7C14016-BS1	031507a-014	03/15/07 11:09
A701088-05	7C14016-MS1	031507a-015	03/15/07 11:16
A701088-05	7C14016-MSD1	031507a-016	03/15/07 11:23
Calibration Blank	BA00433-CCB1	031507a-021	03/15/07 12:01
Calibration Check	BA00433-CCV1	031507a-022	03/15/07 12:08
Calibration Blank	BA00433-CCB5	031507a-073	03/15/07 18:24
Calibration Check	BA00433-CCV5	031507a-074	03/15/07 18:31
JAX47-MW29S-030907	B702192-01	031507a-075	03/15/07 18:38
JAX47-MW30S-030907	B702192-02	031507a-076	03/15/07 18:45
JAX47-MW31D-030709	B702192-03	031507a-077	03/15/07 18:52
Calibration Blank	BA00433-CCB6	031507a-086	03/15/07 19:58
Calibration Check	BA00433-CCV6	031507a-087	03/15/07 20:05
Interference Check A	BA00433-IFA2	031507a-162	03/16/07 04:58

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT		JOB NUMBER	
NAS Jacksonville			
SUBJECT			
Sample calc			
BASED ON		DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE
TLS			4-13-07

ICV reported result arsenic 0.515 mg/L

arsenic result from raw data
0.5153 mg/L

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: ENCO Jacksonville
SDG: BR006-020
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Instrument ID: JMICP1
Calibration: 0703008
Control Limt: +/- 10.00%
Sequence: BA00433

Lab Sample ID	Analyte	True	Found	%R	Units	Method
BA00433-ICV1	Arsenic	0.500	0.515	103	mg/L	EPA 6010B
BA00433-CCV1	Arsenic	0.500	0.517	103	mg/L	EPA 6010B
BA00433-CCV5	Arsenic	0.500	0.507	101	mg/L	EPA 6010B
BA00433-CCV6	Arsenic	0.500	0.509	102	mg/L	EPA 6010B

* Values outside of QC limits

Mg 279.079R	12,379.6	10.0	0.13	mg/L	10.0	1.31 %
2007/03/15 10:11:45 QC value within limits for Mg 279.079R Recovery = 100.22%						
Mn 257.610	457,907.8	0.4940	0.00162	mg/L	0.4940	0.33 %
2007/03/15 10:11:45 QC value within limits for Mn 257.610 Recovery = 98.81%						
Mo 202.030	7,954.8	0.5002	0.00185	mg/L	0.5002	0.37 %
2007/03/15 10:11:45 QC value within limits for Mo 202.030 Recovery = 100.04%						
Na 589.592R	598,648.4	49.9	0.54	mg/L	49.9	1.09 %
2007/03/15 10:11:45 QC value within limits for Na 589.592R Recovery = 99.72%						
Ni 231.604	62,927.2	1.01	0.003	mg/L	1.01	0.33 %
2007/03/15 10:11:45 QC value within limits for Ni 231.604 Recovery = 100.75%						
Pb 220.353	11,343.6	1.009	0.0032	mg/L	1.009	0.32 %
2007/03/15 10:11:45 QC value within limits for Pb 220.353 Recovery = 100.89%						
Sb 206.833	1,507.6	0.4763	0.00263	mg/L	0.4763	0.55 %
2007/03/15 10:11:45 QC value within limits for Sb 206.833 Recovery = 95.26%						
Se 196.026	2,087.8	1.016	0.0045	mg/L	1.016	0.44 %
2007/03/15 10:11:45 QC value within limits for Se 196.026 Recovery = 101.64%						
Sn 189.933	5,008.0	1.023	0.0040	mg/L	1.023	0.39 %
2007/03/15 10:11:45 QC value within limits for Sn 189.933 Recovery = 102.27%						
Sr 421.539R	820,623.0	1.005	0.0059	mg/L	1.005	0.59 %
2007/03/15 10:11:45 QC value within limits for Sr 421.539R Recovery = 100.45%						
Ti 337.280	423,276.8	0.4976	0.00223	mg/L	0.4976	0.45 %
2007/03/15 10:11:45 QC value within limits for Ti 337.280 Recovery = 99.53%						
Tl 190.800	980.9	0.4978	0.01113	mg/L	0.4978	2.24 %
2007/03/15 10:11:45 QC value within limits for Tl 190.800 Recovery = 99.56%						
V 292.402	153,540.4	0.5032	0.00175	mg/L	0.5032	0.35 %
2007/03/15 10:11:45 QC value within limits for V 292.402 Recovery = 100.63%						
Zn 206.191	43,112.6	1.001	0.0025	mg/L	1.001	0.25 %
2007/03/15 10:11:45 QC value within limits for Zn 206.191 Recovery = 100.07%						

Mean Data

ID: ICV1 **Seq. No.:** 6 **A/S Pos:** 3

2007/03/15 10:18:15 All analyte(s) passed QC.

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2007/03/15 10:16:24

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	178,156.5	101	0.7	%				0.70 %
Y361.105A	1,731,783.5	102	0.2	%				0.23 %
Ag 338.289	109,802.4	0.4881	0.00095	mg/L	0.4881			0.19 %
2007/03/15 10:18:14 QC value within limits for Ag 338.289 Recovery = 97.63%								
Ag 328.068	192,763.8	0.5017	0.00071	mg/L	0.5017			0.14 %
2007/03/15 10:18:14 QC value within limits for Ag 328.068 Recovery = 100.34%								
Al 308.215	8,970.5	5.08	0.027	mg/L	5.08			0.53 %
2007/03/15 10:18:14 QC value within limits for Al 308.215 Recovery = 101.55%								
As 188.979	1,017.7	0.5153	0.00445	mg/L	0.5153			0.86 %
2007/03/15 10:18:14 QC value within limits for As 188.979 Recovery = 103.05%								
Ba 233.527	74,605.4	0.5020	0.00068	mg/L	0.5020			0.14 %
2007/03/15 10:18:14 QC value within limits for Ba 233.527 Recovery = 100.39%								

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. PETERSON**	**DATE:**	**APRIL 16, 2007**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC, SVOC, PEST**
CTO 047, NAS JACKSONVILLE
SDG BR006-021

SAMPLES: 1/Aqueous

TB01

3/Solid

JAX47-SB118-01-03 07 JAX47-SB118-03-03 07 JAX47-SB120-01-030907

OVERVIEW

The sample set for CTO 047 NAS Jacksonville, SDG BR006-021 consists of one (1) trip blank and three (3) solid environmental samples. Samples JAX47-SB118-01-03 07 and JAX47-SB118-03-03 07 were analyzed for Target Compound List (TCL) volatile organic compounds (VOC) and semivolatile organic compounds (SVOC). Samples JAX47-SB118-01-03 07, JAX47-SB118-03-03 07 and, JAX47-SB120-01-030907 were analyzed for pesticide (PEST) organic compounds. The trip blank was analyzed for VOCs only.

The samples were collected by TetraTech NUS on March 9 and 13, 2007 and analyzed by Environmental Conservation Laboratories, Inc. Analyses were conducted in accordance with SW-846 Methods 8260B, 8270C, and 8081A analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	•	Data completeness
*	•	Holding times
*	•	GC/MS Tuning
	•	Initial/continuing calibrations
	•	Laboratory method blank results
*	•	Surrogate Recoveries
	•	Blank Spike/Blank Spike Duplicate Results
	•	Matrix Spike/Matrix Spike Duplicate Results
*	•	Compound Quantitation
	•	Compound Identification
*	•	Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

VOC

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Toluene	0.00066 mg/kg	0.0033 mg/kg

An action level of 5X the maximum contaminant concentration was established to evaluate laboratory contamination for toluene. Dilution factors, sample aliquots and percent solids were taken into consideration during the application of the action level. The positive result for toluene was qualified (U) as a blank contaminant in sample JAX47-SB118-01-03 07.

The method blank associated with the trip blank had detections for carbon disulfide, toluene, and total xylenes. The trip blank had a detection for total xylenes. No action was taken on this basis because trip blank samples are not qualified because of method blank contamination.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample JAX47-SB118-03-03 07 had percent recoveries below the quality control limit for 1,2-dibromoethane and 1,2-dichlorobenzene in the MS. In addition, methylene chloride had a relative percent difference outside of the quality control limit. No action was taken on this basis because either the MS or MSD had an acceptable recovery for every compound.

The LCS associated with the trip blank had a zero percent recovery for bromomethane. The laboratory reported a problem with detecting this compound in the entire batch run. The non-detected bromomethane result for the trip blank has been rejected "UR".

Initial calibration and continuing calibration relative response factors (RRFs) associated with the soil samples were less than the 0.05 quality control limit for 2-butanone and 4-methyl-2-pentanone on instrument JVGCMS1. Only non-detected results were reported for the aforementioned compounds and these were rejected (UR) in all soil samples.

Continuing calibration percent difference (%D) was greater than the 25% quality control limit for bromomethane on instrument JSVGCMS2 on 3/23/07. No action was taken on this basis because bromomethane was previously rejected for a more severe non-compliance in the trip blank.

Acetone and methylene chloride were not detected in any associated laboratory method blanks. However, they are suspected laboratory contaminants. The positive acetone and methylene chloride results for all soil samples have been qualified as estimated (J).

PEST

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Delta-BHC	0.0021 mg/kg	0.0105 mg/kg

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. The method blank was reported on a wet weight basis. The positive delta-BHC result in sample JAX47-SB118-01-03 07 below the blank action level was qualified as non-detected, (U).

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results in the following samples and the results have been qualified as estimated, "J":

Sample Number	Compound	% Difference	Qualification
JAX47-SB118-01-03 07	Dieldrin	37.5%	J
JAX47-SB118-01-03 07	4,4'-DDE	160%	J
	4,4'-DDT	156%	J

SVOC

The surrogates 2-fluorophenol and phenol-d5 for sample JAX47-SB118-01-03 07 had percent recoveries greater than the quality control limit. No action was taken on this basis because only non-detected results were reported for sample JAX47-SB118-01-03 07.

The surrogate phenol-d5 for sample JAX47-SB118-03-03 07 had a percent recovery greater than the quality control limit. No action was taken on this basis because only one surrogate per fraction was outside of the control limit.

Continuing calibration percent differences (%Ds) were greater than the 25% quality control limit for 2,4-dinitrophenol, 2-methyl-4,6-dinitrophenol, and 4-nitroaniline chloride on instrument JSVGCMS1 on 3/22/07. Only non-detected results were reported for the aforementioned compounds and these were qualified as estimated (UJ), in the affected samples.

MS/MSD performed on sample JAX47-SB118-03-03 07 had percent recoveries greater than the quality control limit for N-nitrosodiphenylamine and 3,3'-dichlorobenzidine in the MS and MSD. In addition, 2,4-dinitrophenol had a relative percent difference (RPD) outside of the quality control limit. No action was taken on this basis because these compounds were not detected in the associated sample.

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several compounds were detected in the method blanks for the VOC and PEST fractions. Several compounds for the VOC and SVOC exceeded the continuing calibration %D or RRF criteria resulting in qualification of the data. Bromomethane was not detected in a VOC LCS resulting in rejection of the data for one sample.

Other Factors Affecting Data Quality: Several recovery non-compliances were noted for the MS/MSDs for the VOC and SVOC fractions. Surrogate recovelry non-compliances for the SVOC fraction resulted in qualification of the data. Percent difference between columns for the PEST fraction exceeded criteria for several compounds resulting in qualification of the data.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999), and Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-021 MEDIA: WATER DATA FRACTION: OV

nsample	-TB01-	nsample	-TB01-
samp_date	3/13/2007	samp_date	3/13/2007
lab_id	B702385-03	lab_id	B702385-03
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	
1,1,2-TRICHLOROETHANE	0.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.58	U	
1,1-DICHLOROETHANE	0.2	U	
1,1-DICHLOROETHENE	0.2	U	
1,2,4-TRICHLOROBENZENE	0.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.3	U	
1,2-DIBROMOETHANE	0.1	U	
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.1	U	
1,2-DICHLOROPROPANE	0.4	U	
1,3-DICHLOROBENZENE	0.2	U	
1,4-DICHLOROBENZENE	0.1	U	
2-BUTANONE	2	U	
2-HEXANONE	0.6	U	
4-METHYL-2-PENTANONE	2	U	
ACETONE	2	U	
BENZENE	0.2	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.2	U	
BROMOMETHANE	0.6	UR	E
CARBON DISULFIDE	0.9	U	
CARBON TETRACHLORIDE	0.3	U	
CHLOROBENZENE	0.2	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.3	U	
CHLOROFORM	0.2	U	
CHLOROMETHANE	0.49	J	P
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.1	U	
CYCLOHEXANE	0.45	U	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.3	U	
DIETHYL ETHER	0.54	U	
ETHYLBENZENE	0.3	U	
ISOPROPYLBENZENE	0.1	U	
METHYL ACETATE	0.51	U	
METHYL CYCLOHEXANE	0.55	U	
METHYL TERT-BUTYL ETHER	0.2	U	
METHYLENE CHLORIDE	2	U	
STYRENE	0.1	U	
TETRACHLOROETHENE	0.3	U	
TOLUENE	0.2	U	
TOTAL XYLENES	0.41	J	P
TRANS-1,2-DICHLOROETHENE	0.2	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	0.3	U	
TRICHLOROFLUOROMETHANE	0.3	U	
VINYL CHLORIDE	0.4	U	

PROJ_NO: 00497

SDG: BR006-021 MEDIA: SOIL DATA FRACTION: OV

nsample	JAX47-SB118-01-03 07	nsample	JAX47-SB118-01-03 07	nsample	JAX47-SB118-03-03 07
samp_date	3/13/2007	samp_date	3/13/2007	samp_date	3/13/2007
lab_id	B702385-01	lab_id	B702385-01	lab_id	B702385-02
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	91.1	Pct_Solids	91.1	Pct_Solids	86.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.0001	U	
1,1,2,2-TETRACHLOROETHANE	0.0002	U	
1,1,2-TRICHLOROETHANE	0.0002	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.0003	U	
1,1-DICHLOROETHANE	0.0002	U	
1,1-DICHLOROETHENE	0.0002	U	
1,2,4-TRICHLOROBENZENE	0.0001	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.0003	U	
1,2-DIBROMOETHANE	0.0002	U	
1,2-DICHLOROBENZENE	0.0002	U	
1,2-DICHLOROETHANE	0.0001	U	
1,2-DICHLOROPROPANE	0.0001	U	
1,3-DICHLOROBENZENE	0.0002	U	
1,4-DICHLOROBENZENE	0.0001	U	
2-BUTANONE	0.0014	UR	C
2-HEXANONE	0.0009	U	
4-METHYL-2-PENTANONE	0.001	UR	C
ACETONE	0.0237	J	A
BENZENE	0.0001	U	
BROMODICHLOROMETHANE	0.0001	U	
BROMOFORM	0.0002	U	
BROMOMETHANE	0.0008	U	
CARBON DISULFIDE	0.0003	U	
CARBON TETRACHLORIDE	0.0002	U	
CHLOROBENZENE	0.0001	U	
CHLORODIBROMOMETHANE	0.0002	U	
CHLOROETHANE	0.0004	U	
CHLOROFORM	0.0001	U	
CHLOROMETHANE	0.0003	U	
CIS-1,2-DICHLOROETHENE	0.0002	U	
CIS-1,3-DICHLOROPROPENE	0.0002	U	
CYCLOHEXANE	0.0009	U	
DICHLORODIFLUOROMETHANE	0.0003	U	
DIETHYL ETHER	0.0009	U	
ETHYLBENZENE	0.0002	U	
ISOPROPYLBENZENE	0.0002	U	
METHYL ACETATE	0.0009	U	
METHYL CYCLOHEXANE	0.001	U	
METHYL TERT-BUTYL ETHER	0.0001	U	
METHYLENE CHLORIDE	0.0056	J	A
STYRENE	0.0002	U	
TETRACHLOROETHENE	0.0009	U	
TOLUENE	0.0004	U	A
TOTAL XYLENES	0.0003	U	
TRANS-1,2-DICHLOROETHENE	0.0003	U	
TRANS-1,3-DICHLOROPROPENE	0.0002	U	
TRICHLOROETHENE	0.0001	U	
TRICHLOROFLUOROMETHANE	0.0004	U	
VINYL CHLORIDE	0.0003	U	
1,1,1-TRICHLOROETHANE	0.0001	U	
1,1,2,2-TETRACHLOROETHANE	0.0002	U	
1,1,2-TRICHLOROETHANE	0.0002	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.0003	U	
1,1-DICHLOROETHANE	0.0002	U	
1,1-DICHLOROETHENE	0.0002	U	
1,2,4-TRICHLOROBENZENE	0.0001	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.0003	U	
1,2-DIBROMOETHANE	0.0002	U	
1,2-DICHLOROBENZENE	0.0002	U	
1,2-DICHLOROETHANE	0.0001	U	
1,2-DICHLOROPROPANE	0.0001	U	
1,3-DICHLOROBENZENE	0.0002	U	
1,4-DICHLOROBENZENE	0.0001	U	
2-BUTANONE	0.0013	UR	C
2-HEXANONE	0.0008	U	
4-METHYL-2-PENTANONE	0.0009	UR	C
ACETONE	0.0432	J	A
BENZENE	0.0001	U	
BROMODICHLOROMETHANE	0.0001	U	
BROMOFORM	0.0002	U	
BROMOMETHANE	0.0007	U	
CARBON DISULFIDE	0.0003	U	
CARBON TETRACHLORIDE	0.0002	U	
CHLOROBENZENE	0.0001	U	
CHLORODIBROMOMETHANE	0.0002	U	
CHLOROETHANE	0.0004	U	
CHLOROFORM	0.0001	U	
CHLOROMETHANE	0.0003	U	
CIS-1,2-DICHLOROETHENE	0.0002	U	
CIS-1,3-DICHLOROPROPENE	0.0002	U	
CYCLOHEXANE	0.0009	U	

PROJ_NO: 00497

SDG: BR006-021 MEDIA: SOIL DATA FRACTION: OV

nsample	JAX47-SB118-03-03 07
samp_date	3/13/2007
lab_id	B702385-02
qc_type	NM
units	MG/KG
Pct_Solids	86.3
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DICHLORODIFLUOROMETHANE	0.0003	U	
DIETHYL ETHER	0.0008	U	
ETHYLBENZENE	0.0002	U	
ISOPROPYLBENZENE	0.0002	U	
METHYL ACETATE	0.0008	U	
METHYL CYCLOHEXANE	0.0009	U	
METHYL TERT-BUTYL ETHER	0.0001	U	
METHYLENE CHLORIDE	0.0051	J	A
STYRENE	0.0002	U	
TETRACHLOROETHENE	0.0008	U	
TOLUENE	0.0002	U	
TOTAL XYLENES	0.0003	U	
TRANS-1,2-DICHLOROETHENE	0.0003	U	
TRANS-1,3-DICHLOROPROPENE	0.0002	U	
TRICHLOROETHENE	0.0001	U	
TRICHLOROFLUOROMETHANE	0.0004	U	
VINYL CHLORIDE	0.0003	U	

PROJ_NO: 00497

SDG: BR006-021 MEDIA: SOIL DATA FRACTION: OS

nsample	JAX47-SB118-01-03 07	nsample	JAX47-SB118-01-03 07	nsample	JAX47-SB118-03-03 07
samp_date	3/13/2007	samp_date	3/13/2007	samp_date	3/13/2007
lab_id	B702385-01	lab_id	B702385-01	lab_id	B702385-02
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	91.1	Pct_Solids	91.1	Pct_Solids	86.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.114	U	
2,4,5-TRICHLOROPHENOL	0.159	U	
2,4,6-TRICHLOROPHENOL	0.137	U	
2,4-DICHLOROPHENOL	0.137	U	
2,4-DIMETHYLPHENOL	0.127	U	
2,4-DINITROPHENOL	0.265	UJ	C
2,4-DINITROTOLUENE	0.153	U	
2,6-DINITROTOLUENE	0.153	U	
2-CHLORONAPHTHALENE	0.137	U	
2-CHLOROPHENOL	0.123	U	
2-METHYLNAPHTHALENE	0.142	U	
2-METHYLPHENOL	0.131	U	
2-NITROANILINE	0.127	U	
2-NITROPHENOL	0.12	U	
3,3'-DICHLOROBENZIDINE	0.117	U	
3-NITROANILINE	0.131	U	
4,6-DINITRO-2-METHYLPHENOL	0.12	UJ	C
4-BROMOPHENYL PHENYL ETHER	0.142	U	
4-CHLOROANILINE	0.109	U	
4-CHLOROPHENYL PHENYL ETHER	0.153	U	
4-METHYLPHENOL	0.137	U	
4-NITROANILINE	0.153	UJ	C
4-NITROPHENOL	0.163	U	
ACENAPHTHENE	0.127	U	
ACENAPHTHYLENE	0.123	U	
ACETOPHENONE	0.072	U	
ANTHRACENE	0.159	U	
ATRAZINE	0.046	U	
BENZALDEHYDE	0.114	U	
BENZO(A)ANTHRACENE	0.17	U	
BENZO(A)PYRENE	0.127	U	
BENZO(B)FLUORANTHENE	0.12	U	

Parameter	Result	Val Qual	Qual Code
BENZO(G,H,I)PERYLENE	0.152	U	
BENZO(K)FLUORANTHENE	0.145	U	
BIS(2-CHLOROETHOXY)METHANE	0.112	U	
BIS(2-CHLOROETHYL)ETHER	0.109	U	
BIS(2-CHLOROISOPROPYL)ETHER	0.112	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.221	U	
BUTYL BENZYL PHTHALATE	0.137	U	
CAPROLACTAM	0.056	U	
CARBAZOLE	0.163	U	
CHRYSENE	0.148	U	
DIBENZO(A,H)ANTHRACENE	0.21	U	
DIBENZOFURAN	0.148	U	
DIETHYL PHTHALATE	0.134	U	
DIMETHYL PHTHALATE	0.123	U	
DI-N-BUTYL PHTHALATE	0.159	U	
DI-N-OCTYL PHTHALATE	0.181	U	
FLUORANTHENE	0.153	U	
FLUORENE	0.148	U	
HEXACHLOROBENZENE	0.137	U	
HEXACHLOROBUTADIENE	0.137	U	
HEXACHLOROCYCLOPENTADIENE	0.072	U	
HEXACHLOROETHANE	0.109	U	
INDENO(1,2,3-CD)PYRENE	0.206	U	
ISOPHORONE	0.069	U	
NAPHTHALENE	0.148	U	
NITROBENZENE	0.131	U	
N-NITROSO-DI-N-PROPYLAMINE	0.094	U	
N-NITROSODIPHENYLAMINE	0.163	U	
PENTACHLOROPHENOL	0.206	U	
PHENANTHRENE	0.153	U	
PHENOL	0.137	U	
PYRENE	0.159	U	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.121	U	
2,4,5-TRICHLOROPHENOL	0.168	U	
2,4,6-TRICHLOROPHENOL	0.145	U	
2,4-DICHLOROPHENOL	0.145	U	
2,4-DIMETHYLPHENOL	0.134	U	
2,4-DINITROPHENOL	0.279	UJ	C
2,4-DINITROTOLUENE	0.161	U	
2,6-DINITROTOLUENE	0.161	U	
2-CHLORONAPHTHALENE	0.145	U	
2-CHLOROPHENOL	0.13	U	
2-METHYLNAPHTHALENE	0.149	U	
2-METHYLPHENOL	0.138	U	
2-NITROANILINE	0.134	U	
2-NITROPHENOL	0.126	U	
3,3'-DICHLOROBENZIDINE	0.124	U	
3-NITROANILINE	0.138	U	
4,6-DINITRO-2-METHYLPHENOL	0.126	UJ	C
4-BROMOPHENYL PHENYL ETHER	0.149	U	
4-CHLOROANILINE	0.115	U	
4-CHLOROPHENYL PHENYL ETHER	0.161	U	
4-METHYLPHENOL	0.145	U	
4-NITROANILINE	0.161	UJ	C
4-NITROPHENOL	0.171	U	
ACENAPHTHENE	0.134	U	
ACENAPHTHYLENE	0.13	U	
ACETOPHENONE	0.076	U	
ANTHRACENE	0.168	U	
ATRAZINE	0.049	U	
BENZALDEHYDE	0.121	U	
BENZO(A)ANTHRACENE	0.18	U	
BENZO(A)PYRENE	0.134	U	
BENZO(B)FLUORANTHENE	0.126	U	

PROJ_NO: 00497

SDG: BR006-021 MEDIA: SOIL DATA FRACTION: OS

nsample	JAX47-SB118-03-03 07
samp_date	3/13/2007
lab_id	B702385-02
qc_type	NM
units	MG/KG
Pct_Solids	86.3
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(G,H,I)PERYLENE	0.16	U	
BENZO(K)FLUORANTHENE	0.153	U	
BIS(2-CHLOROETHOXY)METHANE	0.118	U	
BIS(2-CHLOROETHYL)ETHER	0.115	U	
BIS(2-CHLOROISOPROPYL)ETHER	0.118	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.233	U	
BUTYL BENZYL PHTHALATE	0.145	U	
CAPROLACTAM	0.059	U	
CARBAZOLE	0.171	U	
CHRYSENE	0.156	U	
DIBENZO(A,H)ANTHRACENE	0.221	U	
DIBENZOFURAN	0.156	U	
DIETHYL PHTHALATE	0.141	U	
DIMETHYL PHTHALATE	0.13	U	
DI-N-BUTYL PHTHALATE	0.168	U	
DI-N-OCTYL PHTHALATE	0.191	U	
FLUORANTHENE	0.161	U	
FLUORENE	0.156	U	
HEXACHLOROBENZENE	0.145	U	
HEXACHLOROBUTADIENE	0.145	U	
HEXACHLOROCYCLOPENTADIENE	0.076	U	
HEXACHLOROETHANE	0.115	U	
INDENO(1,2,3-CD)PYRENE	0.218	U	
ISOPHORONE	0.073	U	
NAPHTHALENE	0.156	U	
NITROBENZENE	0.138	U	
N-NITROSO-DI-N-PROPYLAMINE	0.1	U	
N-NITROSODIPHENYLAMINE	0.171	U	
PENTACHLOROPHENOL	0.218	U	
PHENANTHRENE	0.161	U	
PHENOL	0.145	U	
PYRENE	0.168	U	

PROJ_NO: 00497

SDG: BR006-021 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	JAX47-SB118-01-03 07	nsample	JAX47-SB118-03-03 07	nsample	JAX47-SB120-01-030907
samp_date	3/13/2007	samp_date	3/13/2007	samp_date	3/9/2007
lab_id	B702385-01	lab_id	B702385-02	lab_id	B702285-10
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	91.1	Pct_Solids	86.3	Pct_Solids	73.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00033	U	
4,4'-DDE	0.00037	J	PU
4,4'-DDT	0.00033	J	PU
ALDRIN	0.00022	U	
ALPHA-BHC	0.00014	U	
ALPHA-CHLORDANE	0.00029	U	
BETA-BHC	0.00036	U	
DELTA-BHC	0.0022	U	A
DIELDRIN	0.0019	J	U
ENDOSULFAN I	0.00029	U	
ENDOSULFAN II	0.00025	U	
ENDOSULFAN SULFATE	0.00029	U	
ENDRIN	0.0004	U	
ENDRIN ALDEHYDE	0.00018	U	
ENDRIN KETONE	0.00033	U	
GAMMA-BHC (LINDANE)	0.00018	U	
GAMMA-CHLORDANE	0.00025	U	
HEPTACHLOR	0.00025	U	
HEPTACHLOR EPOXIDE	0.00062	U	
METHOXYCHLOR	0.00036	U	
TOXAPHENE	0.0018	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.00034	U	
4,4'-DDE	0.00038	U	
4,4'-DDT	0.00015	U	
ALDRIN	0.00023	U	
ALPHA-BHC	0.00015	U	
ALPHA-CHLORDANE	0.00031	U	
BETA-BHC	0.00038	U	
DELTA-BHC	0.00019	U	
DIELDRIN	0.00027	U	
ENDOSULFAN I	0.00031	U	
ENDOSULFAN II	0.00027	U	
ENDOSULFAN SULFATE	0.00031	U	
ENDRIN	0.00042	U	
ENDRIN ALDEHYDE	0.00019	U	
ENDRIN KETONE	0.00034	U	
GAMMA-BHC (LINDANE)	0.00019	U	
GAMMA-CHLORDANE	0.00027	U	
HEPTACHLOR	0.00027	U	
HEPTACHLOR EPOXIDE	0.00065	U	
METHOXYCHLOR	0.00038	U	
TOXAPHENE	0.0019	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.0004	U	
4,4'-DDE	0.00045	U	
4,4'-DDT	0.00018	U	
ALDRIN	0.00027	U	
ALPHA-BHC	0.00018	U	
ALPHA-CHLORDANE	0.00036	U	
BETA-BHC	0.00045	U	
DELTA-BHC	0.00022	U	
DIELDRIN	0.00031	U	
ENDOSULFAN I	0.00036	U	
ENDOSULFAN II	0.00031	U	
ENDOSULFAN SULFATE	0.00036	U	
ENDRIN	0.00049	U	
ENDRIN ALDEHYDE	0.00022	U	
ENDRIN KETONE	0.0004	U	
GAMMA-BHC (LINDANE)	0.00022	U	
GAMMA-CHLORDANE	0.00031	U	
HEPTACHLOR	0.00031	U	
HEPTACHLOR EPOXIDE	0.00076	U	
METHOXYCHLOR	0.00045	U	
TOXAPHENE	0.0022	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-SB118-01-03 07

Laboratory:	ENCO Jacksonville		SDG:	BR006-021	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	B702385-01	File ID:	7CP012.D
Sampled:	03/13/07 11:09	Prepared:	03/21/07 09:00	Analyzed:	03/21/07 18:42
Solids:	91.08	Preparation:	EPA 5035_MS	Initial/Final:	4.89 g / 5 mL
Batch:	7C22012	Sequence:	BA00467	Calibration:	0704002
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
75-71-8	Dichlorodifluoromethane	1	0.0003	U	0.0003	0.0011
74-87-3	Chloromethane	1	0.0003	U	0.0003	0.0011
75-01-4	Vinyl chloride	1	0.0003	U	0.0003	0.0011
74-83-9	Bromomethane	1	0.0008	U	0.0008	0.0011
75-00-3	Chloroethane	1	0.0004	U	0.0004	0.0011
75-69-4	Trichlorofluoromethane	1	0.0004	U	0.0004	0.0011
75-35-4	1,1-Dichloroethene	1	0.0002	U	0.0002	0.0011
67-64-1	Acetone	1	0.0237		0.0014	0.0055
75-15-0	Carbon disulfide	1	0.0003	U	0.0003	0.0055
75-09-2	Methylene Chloride	1	0.0056		0.0005	0.0022
1634-04-4	Methyl-tert-Butyl Ether	1	0.0001	U	0.0001	0.0011
156-60-5	trans-1,2-Dichloroethene	1	0.0003	U	0.0003	0.0011
75-34-3	1,1-Dichloroethane	1	0.0002	U	0.0002	0.0011
78-93-3	2-Butanone	1	0.0014	U	0.0014	0.0055
156-59-2	cis-1,2-Dichloroethene	1	0.0002	U	0.0002	0.0011
67-66-3	Chloroform	1	0.0001	U	0.0001	0.0011
71-55-6	1,1,1-Trichloroethane	1	0.0001	U	0.0001	0.0011
56-23-5	Carbon Tetrachloride	1	0.0002	U	0.0002	0.0011
107-06-2	1,2-Dichloroethane	1	0.0001	U	0.0001	0.0011
71-43-2	Benzene	1	0.0001	U	0.0001	0.0011
79-01-6	Trichloroethene	1	0.0001	U	0.0001	0.0011
78-87-5	1,2-Dichloropropane	1	0.0001	U	0.0001	0.0011
75-27-4	Bromodichloromethane	1	0.0001	U	0.0001	0.0004
10061-01-5	cis-1,3-Dichloropropene	1	0.0002	U	0.0002	0.0002
108-10-1	4-Methyl-2-pentanone	1	0.0010	U	0.0010	0.0055
108-88-3	Toluene	1	0.0004	IV	0.0002	0.0011
10061-02-6	trans-1,3-Dichloropropene	1	0.0002	U	0.0002	0.0002
110-82-7	Cyclohexane	1	0.0009	U	0.0009	0.0011
79-00-5	1,1,2-Trichloroethane	1	0.0002	U	0.0002	0.0011
79-20-9	Methyl acetate	1	0.0009	U	0.0009	0.0011
108-87-2	Methyl cyclohexane	1	0.0010	U	0.0010	0.0011
127-18-4	Tetrachloroethene	1	0.0009	U	0.0009	0.0011
591-78-6	2-Hexanone	1	0.0009	U	0.0009	0.0055
124-48-1	Dibromochloromethane	1	0.0002	U	0.0002	0.0002
106-93-4	1,2-Dibromoethane	1	0.0002	U	0.0002	0.0011
108-90-7	Chlorobenzene	1	0.0001	U	0.0001	0.0011
100-41-4	Ethylbenzene	1	0.0002	U	0.0002	0.0011
100-42-5	Styrene	1	0.0002	U	0.0002	0.0011
75-25-2	Bromoform	1	0.0002	U	0.0002	0.0011
98-82-8	Isopropylbenzene	1	0.0002	U	0.0002	0.0011

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-SB118-01-03 07

Laboratory: ENCO Jacksonville | SDG: BR006-021

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Soil | Laboratory ID: B702385-01 | File ID: 7CP012.D

Sampled: 03/13/07 11:09 | Prepared: 03/21/07 09:00 | Analyzed: 03/21/07 18:42

Solids: 91.08 | Preparation: EPA 5035_MS | Initial/Final: 4.89 g / 5 mL

Batch: 7C22012 | Sequence: BA00467 | Calibration: 0704002 | Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0002	U	0.0002	0.0002
541-73-1	1,3-Dichlorobenzene	1	0.0002	U	0.0002	0.0011
106-46-7	1,4-Dichlorobenzene	1	0.0001	U	0.0001	0.0011
95-50-1	1,2-Dichlorobenzene	1	0.0002	U	0.0002	0.0011
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0003	U	0.0003	0.0011
120-82-1	1,2,4-Trichlorobenzene	1	0.0001	U	0.0001	0.0011
NA	Xylenes (Total)	1	0.0003	U	0.0003	0.0011
60-29-7	Diethyl ether	1	0.0009	U	0.0009	0.0011
76-13-1	Freon 113	1	0.0003	U	0.0003	0.0011

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	50.0	50.6	101	85 - 115	
4-Bromofluorobenzene	50.0	53.8	108	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	289436	10.89	361906	10.88	
1,4-Difluorobenzene	451997	11.55	527597	11.53	
Chlorobenzene-d5	446189	14.73	545160	14.73	
1,4-Dichlorobenzene-d4	242570	16.95	301643	16.94	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702385-02	File ID:	7CP011.D
Sampled:	03/13/07 11:25	Prepared:	03/21/07 09:00	Analyzed:	03/21/07 18:08
Solids:	86.31	Preparation:	EPA 5035_MS	Initial/Final:	5.7 g / 5 mL
Batch:	7C22012	Sequence:	BA00467	Calibration:	0704002
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
75-71-8	Dichlorodifluoromethane	1	0.0003	U	0.0003	0.0010
74-87-3	Chloromethane	1	0.0003	U	0.0003	0.0010
75-01-4	Vinyl chloride	1	0.0003	U	0.0003	0.0010
74-83-9	Bromomethane	1	0.0007	U	0.0007	0.0010
75-00-3	Chloroethane	1	0.0004	U	0.0004	0.0010
75-69-4	Trichlorofluoromethane	1	0.0004	U	0.0004	0.0010
75-35-4	1,1-Dichloroethene	1	0.0002	U	0.0002	0.0010
67-64-1	Acetone	1	0.0432		0.0013	0.0051
75-15-0	Carbon disulfide	1	0.0003	U	0.0003	0.0051
75-09-2	Methylene Chloride	1	0.0051		0.0005	0.0020
1634-04-4	Methyl-tert-Butyl Ether	1	0.0001	U	0.0001	0.0010
156-60-5	trans-1,2-Dichloroethene	1	0.0003	U	0.0003	0.0010
75-34-3	1,1-Dichloroethane	1	0.0002	U	0.0002	0.0010
78-93-3	2-Butanone	1	0.0013	U	0.0013	0.0051
156-59-2	cis-1,2-Dichloroethene	1	0.0002	U	0.0002	0.0010
67-66-3	Chloroform	1	0.0001	U	0.0001	0.0010
71-55-6	1,1,1-Trichloroethane	1	0.0001	U	0.0001	0.0010
56-23-5	Carbon Tetrachloride	1	0.0002	U	0.0002	0.0010
107-06-2	1,2-Dichloroethane	1	0.0001	U	0.0001	0.0010
71-43-2	Benzene	1	0.0001	U	0.0001	0.0010
79-01-6	Trichloroethene	1	0.0001	U	0.0001	0.0010
78-87-5	1,2-Dichloropropane	1	0.0001	U	0.0001	0.0010
75-27-4	Bromodichloromethane	1	0.0001	U	0.0001	0.0004
10061-01-5	cis-1,3-Dichloropropene	1	0.0002	U	0.0002	0.0002
108-10-1	4-Methyl-2-pentanone	1	0.0009	U	0.0009	0.0051
108-88-3	Toluene	1	0.0002	U	0.0002	0.0010
10061-02-6	trans-1,3-Dichloropropene	1	0.0002	U	0.0002	0.0002
110-82-7	Cyclohexane	1	0.0009	U	0.0009	0.0010
79-00-5	1,1,2-Trichloroethane	1	0.0002	U	0.0002	0.0010
79-20-9	Methyl acetate	1	0.0008	U	0.0008	0.0010
108-87-2	Methyl cyclohexane	1	0.0009	U	0.0009	0.0010
127-18-4	Tetrachloroethene	1	0.0008	U	0.0008	0.0010
591-78-6	2-Hexanone	1	0.0008	U	0.0008	0.0051
124-48-1	Dibromochloromethane	1	0.0002	U	0.0002	0.0002
106-93-4	1,2-Dibromoethane	1	0.0002	U	0.0002	0.0010
108-90-7	Chlorobenzene	1	0.0001	U	0.0001	0.0010
100-41-4	Ethylbenzene	1	0.0002	U	0.0002	0.0010
100-42-5	Styrene	1	0.0002	U	0.0002	0.0010
75-25-2	Bromoform	1	0.0002	U	0.0002	0.0010
98-82-8	Isopropylbenzene	1	0.0002	U	0.0002	0.0010

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702385-02	File ID:	7CP011.D
Sampled:	03/13/07 11:25	Prepared:	03/21/07 09:00	Analyzed:	03/21/07 18:08
Solids:	86.31	Preparation:	EPA 5035_MS	Initial/Final:	5.7 g / 5 mL
Batch:	7C22012	Sequence:	BA00467	Calibration:	0704002
Instrument:	JVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0002	U	0.0002	0.0002
541-73-1	1,3-Dichlorobenzene	1	0.0002	U	0.0002	0.0010
106-46-7	1,4-Dichlorobenzene	1	0.0001	U	0.0001	0.0010
95-50-1	1,2-Dichlorobenzene	1	0.0002	U	0.0002	0.0010
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0003	U	0.0003	0.0010
120-82-1	1,2,4-Trichlorobenzene	1	0.0001	U	0.0001	0.0010
NA	Xylenes (Total)	1	0.0003	U	0.0003	0.0010
60-29-7	Diethyl ether	1	0.0008	U	0.0008	0.0010
76-13-1	Freon 113	1	0.0003	U	0.0003	0.0010

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	50.0	51.6	103	85 - 115	
4-Bromofluorobenzene	50.0	52.5	105	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	312226	10.9	361906	10.88	
1,4-Difluorobenzene	480459	11.55	527597	11.53	
Chlorobenzene-d5	482357	14.74	545160	14.73	
1,4-Dichlorobenzene-d4	271463	16.95	301643	16.94	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

-TB01-

Laboratory: ENCO Jacksonville | SDG: BR006-021

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Ground Water | Laboratory ID: B702385-03 | File ID: 11CQ056.D

Sampled: 03/13/07 00:00 | Prepared: 03/22/07 09:00 | Analyzed: 03/23/07 15:59

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 7C23017 | Sequence: BA00473 | Calibration: 0704001 | Instrument: JVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
110-82-7	Cyclohexane	1	0.450	U	0.450	1.00
60-29-7	Diethyl ether	1	0.540	U	0.540	1.00
79-20-9	Methyl acetate	1	0.510	U	0.510	1.00
108-87-2	Methyl cyclohexane	1	0.550	U	0.550	1.00
75-71-8	Dichlorodifluoromethane	1	0.300	U	0.300	1.00
74-87-3	Chloromethane	1	0.490	I	0.300	1.00
75-01-4	Vinyl chloride	1	0.400	U	0.400	1.00
74-83-9	Bromomethane	1	0.600	U	0.600	1.00
75-00-3	Chloroethane	1	0.300	U	0.300	1.00
75-69-4	Trichlorofluoromethane	1	0.300	U	0.300	1.00
75-35-4	1,1-Dichloroethene	1	0.200	U	0.200	1.00
67-64-1	Acetone	1	2.00	U	2.00	5.00
75-15-0	Carbon disulfide	1	0.900	U	0.900	5.00
75-09-2	Methylene Chloride	1	2.00	U	2.00	2.00
1634-04-4	Methyl-tert-Butyl Ether	1	0.200	U	0.200	1.00
156-60-5	trans-1,2-Dichloroethene	1	0.200	U	0.200	1.00
75-34-3	1,1-Dichloroethane	1	0.200	U	0.200	1.00
78-93-3	2-Butanone	1	2.00	U	2.00	5.00
156-59-2	cis-1,2-Dichloroethene	1	0.200	U	0.200	1.00
67-66-3	Chloroform	1	0.200	U	0.200	1.00
71-55-6	1,1,1-Trichloroethane	1	0.300	U	0.300	1.00
56-23-5	Carbon Tetrachloride	1	0.300	U	0.300	1.00
107-06-2	1,2-Dichloroethane	1	0.100	U	0.100	1.00
71-43-2	Benzene	1	0.200	U	0.200	1.00
79-01-6	Trichloroethene	1	0.300	U	0.300	1.00
78-87-5	1,2-Dichloropropane	1	0.400	U	0.400	1.00
75-27-4	Bromodichloromethane	1	0.200	U	0.200	0.400
10061-01-5	cis-1,3-Dichloropropene	1	0.100	U	0.100	0.200
108-10-1	4-Methyl-2-pentanone	1	2.00	U	2.00	5.00
108-88-3	Toluene	1	0.200	U	0.200	1.00
10061-02-6	trans-1,3-Dichloropropene	1	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	1	0.300	U	0.300	1.00
127-18-4	Tetrachloroethene	1	0.300	U	0.300	1.00
591-78-6	2-Hexanone	1	0.600	U	0.600	5.00
124-48-1	Dibromochloromethane	1	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	1	0.100	U	0.100	1.00
108-90-7	Chlorobenzene	1	0.200	U	0.200	1.00
100-41-4	Ethylbenzene	1	0.300	U	0.300	1.00
100-42-5	Styrene	1	0.100	U	0.100	1.00
75-25-2	Bromoform	1	0.200	U	0.200	1.00

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

-TB01-

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Ground Water Laboratory ID: B702385-03 File ID: 11CQ056.D

Sampled: 03/13/07 00:00 Prepared: 03/22/07 09:00 Analyzed: 03/23/07 15:59

Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 7C23017 Sequence: BA00473 Calibration: 0704001 Instrument: JVGCMS2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
98-82-8	Isopropylbenzene	1	0.100	U	0.100	1.00
79-34-5	1,1,2,2-Tetrachloroethane	1	0.200	U	0.200	0.200
541-73-1	1,3-Dichlorobenzene	1	0.200	U	0.200	1.00
106-46-7	1,4-Dichlorobenzene	1	0.100	U	0.100	1.00
95-50-1	1,2-Dichlorobenzene	1	0.200	U	0.200	1.00
96-12-8	1,2-Dibromo-3-chloropropane	1	0.300	U	0.300	1.00
120-82-1	1,2,4-Trichlorobenzene	1	0.100	U	0.100	1.00
76-13-1	Freon 113	1	0.580	U	0.580	1.00
NA	Xylenes (Total)	1	0.410	I	0.300	1.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	51.4	103	85 - 115	
Toluene-d8	50.0	49.2	98	85 - 120	
4-Bromofluorobenzene	50.0	49.4	99	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	251373	8.78	301427	8.78	
1,4-Difluorobenzene	385090	9.42	458265	9.42	
Chlorobenzene-d5	297781	12.97	371867	12.97	
1,4-Dichlorobenzene-d4	144839	16.07	191713	16.07	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB120-01-030907

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702285-10	File ID:	9CPA018
Sampled:	03/09/07 00:00	Prepared:	03/19/07 15:34	Analyzed:	03/21/07 17:44
Solids:	73.52	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	7C19019	Sequence:	BA00457	Calibration:	0703005
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
319-84-6	alpha-BHC	1	0.00018	U	0.00018	0.0023
58-89-9	gamma-BHC	1	0.00022	U	0.00022	0.0023
319-85-7	beta-BHC	1	0.00045	U	0.00045	0.0023
319-86-8	delta-BHC	1	0.00022	U	0.00022	0.0023
309-00-2	Aldrin	1	0.00027	U	0.00027	0.0023
1024-57-3	Heptachlor epoxide	1	0.00076	U	0.00076	0.0023
NA	Chlordane-gamma	1	0.00031	U	0.00031	0.0023
72-55-9	4,4'-DDE	1	0.00045	U	0.00045	0.0023
959-98-8	Endosulfan I	1	0.00036	U	0.00036	0.0023
60-57-1	Dieldrin	1	0.00031	U	0.00031	0.0023
72-20-8	Endrin	1	0.00049	U	0.00049	0.0023
72-54-8	4,4'-DDD	1	0.00040	U	0.00040	0.0023
33213-65-9	Endosulfan II	1	0.00031	U	0.00031	0.0023
50-29-3	4,4'-DDT	1	0.00018	U	0.00018	0.0023
7421-93-4	Endrin aldehyde	1	0.00022	U	0.00022	0.0023
72-43-5	Methoxychlor	1	0.00045	U	0.00045	0.0023
1031-07-8	Endosulfan sulfate	1	0.00036	U	0.00036	0.0023
53494-70-5	Endrin ketone	1	0.00040	U	0.00040	0.0023
8001-35-2	Toxaphene	1	0.0022	U	0.0022	0.045
76-44-8	Heptachlor	1	0.00031	U	0.00031	0.0023
NA	Chlordane-alpha	1	0.00036	U	0.00036	0.0023

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0453	0.039	87	70 - 125	
DBC	0.0453	0.037	81	55 - 150	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB118-01-03 07

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702385-01	File ID:	9CPA016
Sampled:	03/13/07 11:09	Prepared:	03/19/07 15:34	Analyzed:	03/21/07 16:53
Solids:	91.08	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Batch:	7C19019	Sequence:	BA00457	Calibration:	0703005
Instrument:	JSVGCECD2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
319-84-6	alpha-BHC	1	0.00014	U	0.00014	0.0018
58-89-9	gamma-BHC	1	0.00018	U	0.00018	0.0018
319-85-7	beta-BHC	1	0.00036	U	0.00036	0.0018
319-86-8	delta-BHC	1	0.0022	V	0.00018	0.0018
76-44-8	Heptachlor	1	0.00025	U	0.00025	0.0018
309-00-2	Aldrin	1	0.00022	U	0.00022	0.0018
1024-57-3	Heptachlor epoxide	1	0.00062	U	0.00062	0.0018
NA	Chlordane-gamma	1	0.00025	U	0.00025	0.0018
NA	Chlordane-alpha	1	0.00029	U	0.00029	0.0018
72-55-9	4,4'-DDE	1	0.00037	IP	0.00036	0.0018
959-98-8	Endosulfan I	1	0.00029	U	0.00029	0.0018
60-57-1	Dieldrin	1	0.0019	P	0.00025	0.0018
72-20-8	Endrin	1	0.00040	U	0.00040	0.0018
72-54-8	4,4'-DDD	1	0.00033	U	0.00033	0.0018
33213-65-9	Endosulfan II	1	0.00025	U	0.00025	0.0018
50-29-3	4,4'-DDT	1	0.00033	IP	0.00014	0.0018
72-43-5	Methoxychlor	1	0.00036	U	0.00036	0.0018
1031-07-8	Endosulfan sulfate	1	0.00029	U	0.00029	0.0018
53494-70-5	Endrin ketone	1	0.00033	U	0.00033	0.0018
8001-35-2	Toxaphene	1	0.0018	U	0.0018	0.036
7421-93-4	Endrin aldehyde	1	0.00018	U	0.00018	0.0018

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0366	0.028	77	70 - 125	
DBC	0.0366	0.026	72	55 - 150	

* Values outside of QC limits

PESTICIDES ANALYSIS DATA SHEET

JAX47-SB118-03-03 07

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Matrix: Soil Laboratory ID: B702385-02 File ID: 9CPB017

Sampled: 03/13/07 11:25 Prepared: 03/19/07 15:34 Analyzed: 03/21/07 17:18

Solids: 86.31 Preparation: EPA 3545 Initial/Final: 15 g / 5 mL

Batch: 7C19019 Sequence: BA00457 Calibration: 0703005 Instrument: JSVGCECD2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
319-84-6	alpha-BHC	1	0.00015	U	0.00015	0.0019
58-89-9	gamma-BHC	1	0.00019	U	0.00019	0.0019
319-85-7	beta-BHC	1	0.00038	U	0.00038	0.0019
319-86-8	delta-BHC	1	0.00019	U	0.00019	0.0019
76-44-8	Heptachlor	1	0.00027	U	0.00027	0.0019
309-00-2	Aldrin	1	0.00023	U	0.00023	0.0019
1024-57-3	Heptachlor epoxide	1	0.00065	U	0.00065	0.0019
NA	Chlordane-gamma	1	0.00027	U	0.00027	0.0019
NA	Chlordane-alpha	1	0.00031	U	0.00031	0.0019
72-55-9	4,4'-DDE	1	0.00038	U	0.00038	0.0019
959-98-8	Endosulfan I	1	0.00031	U	0.00031	0.0019
60-57-1	Dieldrin	1	0.00027	U	0.00027	0.0019
72-20-8	Endrin	1	0.00042	U	0.00042	0.0019
72-54-8	4,4'-DDD	1	0.00034	U	0.00034	0.0019
33213-65-9	Endosulfan II	1	0.00027	U	0.00027	0.0019
50-29-3	4,4'-DDT	1	0.00015	U	0.00015	0.0019
7421-93-4	Endrin aldehyde	1	0.00019	U	0.00019	0.0019
72-43-5	Methoxychlor	1	0.00038	U	0.00038	0.0019
1031-07-8	Endosulfan sulfate	1	0.00031	U	0.00031	0.0019
53494-70-5	Endrin ketone	1	0.00034	U	0.00034	0.0019
8001-35-2	Toxaphene	1	0.0019	U	0.0019	0.038

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0386	0.034	87	70 - 125	
DBC	0.0386	0.036	93	55 - 150	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-SB118-01-03 07

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702385-01	File ID:	5CP031.D
Sampled:	03/13/07 11:09	Prepared:	03/19/07 15:43	Analyzed:	03/22/07 13:25
Solids:	91.08	Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL
Batch:	7C19021	Sequence:	BA00466	Calibration:	0703009
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
108-95-2	Phenol	1	0.137	U	0.137	0.362
111-44-4	Bis(2-chloroethyl)ether	1	0.109	U	0.109	0.362
95-57-8	2-Chlorophenol	1	0.123	U	0.123	0.362
95-48-7	2-Methylphenol	1	0.131	U	0.131	0.362
39638-32-9	Bis(2-chloroisopropyl)ether	1	0.112	U	0.112	0.362
106-44-5	3 & 4-Methylphenol	1	0.137	U	0.137	0.362
621-64-7	N-Nitroso-di-n-propylamine	1	0.094	U	0.094	0.362
67-72-1	Hexachloroethane	1	0.109	U	0.109	0.362
98-95-3	Nitrobenzene	1	0.131	U	0.131	0.362
78-59-1	Isophorone	1	0.069	U	0.069	0.362
88-75-5	2-Nitrophenol	1	0.120	U	0.120	0.362
105-67-9	2,4-Dimethylphenol	1	0.127	U	0.127	0.362
111-91-1	Bis(2-chloroethoxy)methane	1	0.112	U	0.112	0.362
120-83-2	2,4-Dichlorophenol	1	0.137	U	0.137	0.362
91-20-3	Naphthalene	1	0.148	U	0.148	0.362
106-47-8	4-Chloroaniline	1	0.109	U	0.109	0.362
87-68-3	Hexachlorobutadiene	1	0.137	U	0.137	0.362
91-57-6	2-Methylnaphthalene	1	0.142	U	0.142	0.362
77-47-4	Hexachlorocyclopentadiene	1	0.072	U	0.072	0.362
88-06-2	2,4,6-Trichlorophenol	1	0.137	U	0.137	0.362
95-95-4	2,4,5-Trichlorophenol	1	0.159	U	0.159	0.362
91-58-7	2-Chloronaphthalene	1	0.137	U	0.137	0.362
88-74-4	2-Nitroaniline	1	0.127	U	0.127	0.362
131-11-3	Dimethylphthalate	1	0.123	U	0.123	0.362
606-20-2	2,6-Dinitrotoluene	1	0.153	U	0.153	0.362
208-96-8	Acenaphthylene	1	0.123	U	0.123	0.362
99-09-2	3-Nitroaniline	1	0.131	U	0.131	0.362
83-32-9	Acenaphthene	1	0.127	U	0.127	0.362
51-28-5	2,4-Dinitrophenol	1	0.265	U	0.265	0.362
100-02-7	4-Nitrophenol	1	0.163	U	0.163	0.362
132-64-9	Dibenzofuran	1	0.148	U	0.148	0.362
121-14-2	2,4-Dinitrotoluene	1	0.153	U	0.153	0.362
84-66-2	Diethylphthalate	1	0.134	U	0.134	0.362
7005-72-3	4-Chlorophenyl-phenylether	1	0.153	U	0.153	0.362
86-73-7	Fluorene	1	0.148	U	0.148	0.362
100-01-6	4-Nitroaniline	1	0.153	U	0.153	0.362
534-52-1	2-Methyl-4,6-dinitrophenol	1	0.120	U	0.120	0.362
86-30-6	N-Nitrosodiphenylamine	1	0.163	U	0.163	0.362
101-55-3	4-Bromophenyl-phenylether	1	0.142	U	0.142	0.362
118-74-1	Hexachlorobenzene	1	0.137	U	0.137	0.362

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-SB118-01-03 07

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702385-01	File ID:	5CP031.D
Sampled:	03/13/07 11:09	Prepared:	03/19/07 15:43	Analyzed:	03/22/07 13:25
Solids:	91.08	Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL
Batch:	7C19021	Sequence:	BA00466	Calibration:	0703009
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
87-86-5	Pentachlorophenol	1	0.206	U	0.206	0.362
85-01-8	Phenanthrene	1	0.153	U	0.153	0.362
120-12-7	Anthracene	1	0.159	U	0.159	0.362
86-74-8	Carbazole	1	0.163	U	0.163	0.362
84-74-2	Di-n-butylphthalate	1	0.159	U	0.159	0.362
206-44-0	Fluoranthene	1	0.153	U	0.153	0.362
129-00-0	Pyrene	1	0.159	U	0.159	0.362
92-52-4	1,1'-Biphenyl	1	0.114	U	0.114	0.362
1912-24-9	Atrazine	1	0.046	U	0.046	0.362
85-68-7	Butylbenzylphthalate	1	0.137	U	0.137	0.362
100-52-7	Benzaldehyde	1	0.114	U	0.114	0.362
91-94-1	3,3'-Dichlorobenzidine	1	0.117	U	0.117	0.362
105-60-2	Caprolactam	1	0.056	U	0.056	0.362
56-55-3	Benzo(a)anthracene	1	0.170	U	0.170	0.362
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.221	U	0.221	0.362
218-01-9	Chrysene	1	0.148	U	0.148	0.362
117-84-0	Di-n-octylphthalate	1	0.181	U	0.181	0.362
205-99-2	Benzo(b)fluoranthene	1	0.120	U	0.120	0.362
207-08-9	Benzo(k)fluoranthene	1	0.145	U	0.145	0.362
50-32-8	Benzo(a)pyrene	1	0.127	U	0.127	0.362
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.206	U	0.206	0.362
53-70-3	Dibenzo(a,h)anthracene	1	0.210	U	0.210	0.362
191-24-2	Benzo(g,h,i)perylene	1	0.152	U	0.152	0.362
98-86-2	Acetophenone	1	0.072	U	0.072	0.362

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	3.66	3.88	106	35 - 105	*
Phenol-d5	3.66	3.77	103	40 - 100	*
Nitrobenzene-d5	1.83	1.76	96	35 - 100	
2-Fluorobiphenyl	1.83	1.61	88	45 - 105	
2,4,6-Tribromophenol	3.66	3.06	84	35 - 125	
Terphenyl-d14	1.83	1.82	99	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	311384	4.86	357496	4.86	
Naphthalene-d8	1109079	6.06	1315401	6.06	
Acenaphthene-d10	756028	7.79	858277	7.79	
Phenanthrene-d10	1353582	9.28	1504620	9.28	
Chrysene-d12	1821399	11.93	2244664	11.93	
Perylene-d12	1735052	13.34	1981214	13.34	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702385-02	File ID:	5CP032.D
Sampled:	03/13/07 11:25	Prepared:	03/19/07 15:43	Analyzed:	03/22/07 13:50
Solids:	86.31	Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL
Batch:	7C19021	Sequence:	BA00466	Calibration:	0703009
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
108-95-2	Phenol	1	0.145	U	0.145	0.382
111-44-4	Bis(2-chloroethyl)ether	1	0.115	U	0.115	0.382
95-57-8	2-Chlorophenol	1	0.130	U	0.130	0.382
95-48-7	2-Methylphenol	1	0.138	U	0.138	0.382
39638-32-9	Bis(2-chloroisopropyl)ether	1	0.118	U	0.118	0.382
106-44-5	3 & 4-Methylphenol	1	0.145	U	0.145	0.382
621-64-7	N-Nitroso-di-n-propylamine	1	0.100	U	0.100	0.382
67-72-1	Hexachloroethane	1	0.115	U	0.115	0.382
98-95-3	Nitrobenzene	1	0.138	U	0.138	0.382
78-59-1	Isophorone	1	0.073	U	0.073	0.382
88-75-5	2-Nitrophenol	1	0.126	U	0.126	0.382
105-67-9	2,4-Dimethylphenol	1	0.134	U	0.134	0.382
111-91-1	Bis(2-chloroethoxy)methane	1	0.118	U	0.118	0.382
120-83-2	2,4-Dichlorophenol	1	0.145	U	0.145	0.382
91-20-3	Naphthalene	1	0.156	U	0.156	0.382
106-47-8	4-Chloroaniline	1	0.115	U	0.115	0.382
87-68-3	Hexachlorobutadiene	1	0.145	U	0.145	0.382
91-57-6	2-Methylnaphthalene	1	0.149	U	0.149	0.382
77-47-4	Hexachlorocyclopentadiene	1	0.076	U	0.076	0.382
88-06-2	2,4,6-Trichlorophenol	1	0.145	U	0.145	0.382
95-95-4	2,4,5-Trichlorophenol	1	0.168	U	0.168	0.382
91-58-7	2-Chloronaphthalene	1	0.145	U	0.145	0.382
88-74-4	2-Nitroaniline	1	0.134	U	0.134	0.382
131-11-3	Dimethylphthalate	1	0.130	U	0.130	0.382
606-20-2	2,6-Dinitrotoluene	1	0.161	U	0.161	0.382
208-96-8	Acenaphthylene	1	0.130	U	0.130	0.382
99-09-2	3-Nitroaniline	1	0.138	U	0.138	0.382
83-32-9	Acenaphthene	1	0.134	U	0.134	0.382
51-28-5	2,4-Dinitrophenol	1	0.279	U	0.279	0.382
100-02-7	4-Nitrophenol	1	0.171	U	0.171	0.382
132-64-9	Dibenzofuran	1	0.156	U	0.156	0.382
121-14-2	2,4-Dinitrotoluene	1	0.161	U	0.161	0.382
84-66-2	Diethylphthalate	1	0.141	U	0.141	0.382
7005-72-3	4-Chlorophenyl-phenylether	1	0.161	U	0.161	0.382
86-73-7	Fluorene	1	0.156	U	0.156	0.382
100-01-6	4-Nitroaniline	1	0.161	U	0.161	0.382
534-52-1	2-Methyl-4,6-dinitrophenol	1	0.126	U	0.126	0.382
86-30-6	N-Nitrosodiphenylamine	1	0.171	U	0.171	0.382
101-55-3	4-Bromophenyl-phenylether	1	0.149	U	0.149	0.382
118-74-1	Hexachlorobenzene	1	0.145	U	0.145	0.382

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702385-02	File ID:	5CP032.D
Sampled:	03/13/07 11:25	Prepared:	03/19/07 15:43	Analyzed:	03/22/07 13:50
Solids:	86.31	Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL
Batch:	7C19021	Sequence:	BA00466	Calibration:	0703009
Instrument:	JSVGCMS1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	MDL	MRL
87-86-5	Pentachlorophenol	1	0.218	U	0.218	0.382
85-01-8	Phenanthrene	1	0.161	U	0.161	0.382
120-12-7	Anthracene	1	0.168	U	0.168	0.382
86-74-8	Carbazole	1	0.171	U	0.171	0.382
84-74-2	Di-n-butylphthalate	1	0.168	U	0.168	0.382
206-44-0	Fluoranthene	1	0.161	U	0.161	0.382
129-00-0	Pyrene	1	0.168	U	0.168	0.382
92-52-4	1,1'-Biphenyl	1	0.121	U	0.121	0.382
1912-24-9	Atrazine	1	0.049	U	0.049	0.382
85-68-7	Butylbenzylphthalate	1	0.145	U	0.145	0.382
100-52-7	Benzaldehyde	1	0.121	U	0.121	0.382
91-94-1	3,3'-Dichlorobenzidine	1	0.124	U	0.124	0.382
105-60-2	Caprolactam	1	0.059	U	0.059	0.382
56-55-3	Benzo(a)anthracene	1	0.180	U	0.180	0.382
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.233	U	0.233	0.382
218-01-9	Chrysene	1	0.156	U	0.156	0.382
117-84-0	Di-n-octylphthalate	1	0.191	U	0.191	0.382
205-99-2	Benzo(b)fluoranthene	1	0.126	U	0.126	0.382
207-08-9	Benzo(k)fluoranthene	1	0.153	U	0.153	0.382
50-32-8	Benzo(a)pyrene	1	0.134	U	0.134	0.382
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.218	U	0.218	0.382
53-70-3	Dibenzo(a,h)anthracene	1	0.221	U	0.221	0.382
191-24-2	Benzo(g,h,i)perylene	1	0.160	U	0.160	0.382
98-86-2	Acetophenone	1	0.076	U	0.076	0.382

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	3.86	4.07	105	35 - 105	
Phenol-d5	3.86	3.99	103	40 - 100	*
Nitrobenzene-d5	1.93	1.74	90	35 - 100	
2-Fluorobiphenyl	1.93	1.62	84	45 - 105	
2,4,6-Tribromophenol	3.86	3.43	89	35 - 125	
Terphenyl-d14	1.93	1.79	93	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	305072	4.86	357496	4.86	
Naphthalene-d8	1101058	6.06	1315401	6.06	
Acenaphthene-d10	743227	7.79	858277	7.79	
Phenanthrene-d10	1333077	9.28	1504620	9.28	
Chrysene-d12	1790464	11.93	2244664	11.93	
Perylene-d12	1712029	13.34	1981214	13.34	

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG BR006-021

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB114-05-030907	B702285-02	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
M	MG/KG	JAX47-SB115-01-030907	B702285-03	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
M	MG/KG	JAX47-SB115-05-030907	B702285-04	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
M	MG/KG	JAX47-SB116-01-030907	B702285-05RE1	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
M	MG/KG	JAX47-SB117-01-030907	B702285-06	NM	3/9/2007	3/13/2007	3/14/2007	4	1	5
M	MG/KG	JAX47-SB117-01-030907	B702285-06RE1	NM	3/9/2007	3/13/2007	4/10/2007	4	28	32
M	MG/KG	JAX47-SB119-01-030907	B702285-07	NM	3/9/2007	3/13/2007	3/14/2007	4	1	5
M	MG/KG	JAX47-SB119-01-030907	B702285-07RE1	NM	3/9/2007	3/13/2007	4/10/2007	4	28	32
M	MG/KG	JAX47-SB119-05-030907	B702285-08	NM	3/9/2007	3/13/2007	3/14/2007	4	1	5
M	MG/KG	JAX47-SB119-05-030907	B702285-08RE1	NM	3/9/2007	3/13/2007	4/10/2007	4	28	32
M	MG/KG	JAX47-SB120-01-030907	B702285-09	NM	3/9/2007	3/13/2007	3/14/2007	4	1	5
M	MG/KG	JAX47-SB120-01-030907	B702285-09RE1	NM	3/9/2007	3/13/2007	4/10/2007	4	28	32
M	MG/KG	JAX47-SB114-01-030907	B702285-01	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
OS	%	JAX47-SB118-03-03 07	B702385-02	NM	3/13/2007	3/19/2007	3/22/2007	6	3	9
OS	%	JAX47-SB118-01-03 07	B702385-01	NM	3/13/2007	3/19/2007	3/22/2007	6	3	9

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	MG/KG	JAX47-SB118-03-03 07	B702385-02	NM	3/13/2007	3/19/2007	3/22/2007	6	3	9
OS	MG/KG	JAX47-SB118-01-03 07	B702385-01	NM	3/13/2007	3/19/2007	3/22/2007	6	3	9
OV	%	JAX47-SB118-01-03 07	B702385-01	NM	3/13/2007	3/21/2007	3/21/2007	8	0	8
OV	%	JAX47-SB118-03-03 07	B702385-02	NM	3/13/2007	3/21/2007	3/21/2007	8	0	8
OV	%	-TB01-	B702385-03	NM	3/13/2007	3/22/2007	3/23/2007	9	1	10
OV	MG/KG	JAX47-SB118-01-03 07	B702385-01	NM	3/13/2007	3/21/2007	3/21/2007	8	0	8
OV	MG/KG	JAX47-SB118-03-03 07	B702385-02	NM	3/13/2007	3/21/2007	3/21/2007	8	0	8
OV	UG/L	-TB01-	B702385-03	NM	3/13/2007	3/22/2007	3/23/2007	9	1	10
PEST	%	JAX47-SB118-01-03 07	B702385-01	NM	3/13/2007	3/19/2007	3/21/2007	6	2	8
PEST	%	JAX47-SB118-03-03 07	B702385-02	NM	3/13/2007	3/19/2007	3/21/2007	6	2	8
PEST	%	JAX47-SB120-01-030907	B702285-10	NM	3/9/2007	3/19/2007	3/21/2007	10	2	12
PEST	MG/KG	JAX47-SB120-01-030907	B702285-10	NM	3/9/2007	3/19/2007	3/21/2007	10	2	12
PEST	MG/KG	JAX47-SB118-01-03 07	B702385-01	NM	3/13/2007	3/19/2007	3/21/2007	6	2	8
PEST	MG/KG	JAX47-SB118-03-03 07	B702385-02	NM	3/13/2007	3/19/2007	3/21/2007	6	2	8

CASE NARRATIVE

Tetra Tech NUS, Inc / NAS Jacksonville, CTO 047

Project Manger Mark Peterson

SDG BR006-021

Lab Sample ID	Client Sample ID
B702285-01	JAX47-SB114-01-030907
B702285-02	JAX47-SB114-05-030907
B702285-03	JAX47-SB115-01-030907
B702285-04	JAX47-SB115-05-030907
B702285-05	JAX47-SB116-01-030907
B702285-06	JAX47-SB117-01-030907
B702285-07	JAX47-SB119-01-030907
B702285-08	JAX47-SB119-05-030907
B702285-09	JAX47-SB120-01-030907
B702285-10	JAX47-SB121-01-030907
B702385-01	JAX47-SB118-01-0307
B702385-02	JAX47-SB118-03-0307
B702385-03	TB01

Volatiles

Method: Samples were received into the laboratory in satisfactory condition. The samples were analyzed by SW846 Method 8260B.

Comments: The analyses for these samples were completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- Xylenes and Toluene were detected in the method blank, JAX47-MW29S-030907, JAX47-MW30S-030907 and JAX47-MW31D-030907 at a concentration above the Method Detection Limit but below the Method Reporting Limit. The sample results for these compounds at or below the MRL should be considered estimated.

- Matrix Spike, Matrix Spike Duplicate and Laboratory Control Standard was outside the (below) DoD QSM control limits for Bromomethane. This appears to be a random problem that illustrates an instrument problem during this particular analysis run. This appears to be a co-elution of water with Bromomethane at that retention time. System maintenance did not correct this problem however it is being actively addressed.

- Matrix Spike ID 7C22012-MS1 was outside the DoD QSM control limits for 1,2 Dibromoethane and 1,2 Dichlorobenzene. Reportable data was achieved from passing Laboratory Control Standard within the DoD QSM control limits.

- The percent RPD for the Matrix Spike and Matrix Spike Duplicate was outside the DoD QSM control limits for Methylene Chloride. Reportable data was achieved from passing Laboratory Control Standard within the DoD QSM control limits.

- Continuing Calibration Standard BA00467-CCV1 was outside (above) the DoD QSM control limits for 1,2,4-Trichlorobenzene. Samples did not have any positive results for this compound.

Metals

Method: The samples were extracted by USEPA Method 3050 and analyzed by EPA Method 6010.

Comments: The analyses for these samples were satisfactorily completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- JAX47-SB116-01-030907 was analyzed at a 1:10 dilution due to calcium interference in the original run. The original data is included.

- The low concentration calibration verification standard BA00429-001 did not meet the DoD QSM control limits. Several samples were re-analyzed and reported under passing DoD QSM control limits. The sample ID's affected were JAX47-SB117-01-030907, JAX47-SB119-01-030907, JAX47-SB119-05-030907, JAX47-SB120-01-030907 and JAX47-SB121-01-030907.

- Samples were analyzed in two separate analytical batches resulting in the Matrix Spike and Matrix Spike Duplicate for batch 7C13002 being analyzed on an alternative sample not related to this project.

Semi-Volatiles

Method: Samples were received into the laboratory in satisfactory condition. The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8081c.

Comments: The analyses for these samples were satisfactorily completed within method holding time and met the corresponding specifications with the following note/exceptions:

- Low level positive recovery for Delta-BHC was detected in the laboratory method blank and JAX47-SB118-01-0307. Sample results for this compound should be considered estimated.

Method: Samples were received into the laboratory in satisfactory condition. The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8270c.

Comments: The analyses for these samples were completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- Surrogate recovery for 2-Flurophenol and Phenol-5 on samples JAX47-SB118-01-0307 and JAX47-SB118-03-0307 were outside (above) DoD QSM control. Samples were clean and data was accepted.

- Matrix Spike and Matrix Spike Duplicate were outside (above) the DoD QSM control limits for n-nitrosodiphenylamine and 3,3 dichlorobenzidine. Samples within this batch were non-detect for those specific compounds.

- Continuing Calibration Check Standard for 2,4 dinitrophenol and 2-Methyl-4,6 dintrophenol was outside (above) the DoD QSM control limits. There was no detectible compound in the samples following this continuing calibration check.

- Initial Calibration Standard was above DoD QSM control limits for 2-methylphenol, pentachlorophenol, benzidine, Bis(2-ethylhexyl) phthalate. Samples were clean for those compounds and data was accepted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.04.11 18:53:52 -04'00'

Christina M. Tompkins
Project Manager

B702192 / B702285

TETRA TECH NUS, INC. — CHAIN OF CUSTODY — NUMBER 2548 — PAGE 1 OF 1

PROJECT NO: 112G00417
FACILITY: NAS Jax PSC 47
PROJECT MANAGER: Mark Peterson
PHONE NUMBER: 904-636-6125
LABORATORY NAME AND CONTACT: ENCO
SAMPLERS (SIGNATURE): [illegible]
FIELD OPERATIONS LEADER: Chuck Metz
PHONE NUMBER: 904-636-6125
ADDRESS:
CARRIER/WAYBILL NUMBER: Drop Off
CITY, STATE: Jacksonville, FL

STANDARD TAT ☒ 21 Days
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, G, P, G, G
PRESERVATIVE USED: –, –, HCl, HNO3

TYPE OF ANALYSIS: 8081A - TCL Pest; 8270C Extended TCL SVOC; 8260B TCL VOC; 6010B (As); 8081A - TCL Pest - Soil; 6010B (As) - Soil

DATE YEAR 2007	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	8081A TCL Pest	8270C	8260B	6010B (As)		8081A Soil	6010B (As) Soil	COMMENTS
3-9	1110	JAX47-MW-305-030907		–	–	GW	G	6	✓	✓	✓	✓				
	1250	-MW-306-			–	GW	G	6	✓	✓	✓	✓				
	1450	-MW-310-		–	–	GW	G	17	✓	✓	✓	✓				* MS/MSD
		JAX47-SB114-01-030907		0	1	SO	G	1						✓		
		SB114-05		4.5	5			1						✓		
		SB115-01		0	1			1						✓		
		SB115-05		4.5	5			1						✓		
		SB116-01		0	1			1						✓		
		SB117-01		0	1			1						✓		
		SB119-01		0	1			1						✓		Cooled To 4°C
		SB119-05		4	5			1						✓	*	w/ ice
		SB120-01		0	1			1						✓		
		SB121-01		0	1			1					✓			

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Chuck Metz	3-9-07		1. RECEIVED BY: [signature]	3-9-07	1323
2. RELINQUISHED BY:			2. RECEIVED BY:		
3. RELINQUISHED BY:			3. RECEIVED BY: Beth Sansone	3/9/07	13:23

COMMENTS

B702385

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 2539 | PAGE 1 OF 1

PROJECT NO: 112600 351	FACILITY: PSC47-NAS OAK	PROJECT MANAGER: Mark Petrison	PHONE NUMBER: 904-636-6125	LABORATORY NAME AND CONTACT: ENCO / Chris Tompkins
SAMPLERS (SIGNATURE): Terry Cottenoir		FIELD OPERATIONS LEADER: Terry Cottenoir	PHONE NUMBER: 904-686-6125	ADDRESS: 904-293-3007
		CARRIER/WAYBILL NUMBER:		CITY, STATE: Jacksonville, FL

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☒ 7 day ☐ 14 day

DATE / YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: TCL VOCs	TCL VOCs	TCL Pesticides	TCL SVOCs	TCL herbicides	TCL VOCs	COMMENTS
									G	MeOH							
									G	DI							
									G	—							
									G	—							
									G	—							
									G	HCl							
3/13/07	1109	JAX47-SB118-01-03 07		0	1	SO	G	7			✓	✓	✓	✓	✓		
3/13/07	1125	JAX47-SB118-03-03 07		2	3	SO	G	12			✓	✓	✓	✓	✓		MS/MSD
2/12/07	1115	-TB01-				QC	→				→	→	→	→	→	✓	Trip Blank
																	Cooled To 4°C on ice

1. RELINQUISHED BY: Terry Cottenoir	DATE: 3/13/07	TIME: 1312	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY: 3/13/07	DATE	TIME: 1312

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

ENCO Jacksonville
SDG: BR006-021
CLASS: GCMS
METHOD: EPA 8260B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260B

Laboratory: ENCO Jacksonville

SDG: BR006-021

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB118-01-03 07	B702385-01
JAX47-SB118-03-03 07	B702385-02
-TB01-	B702385-03

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.04.11 18:53:33 -04'00'

Name: Christina Tompkins

Date: 4/6/07

Title: Project Manager

HOLDING TIME SUMMARY
EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	O
JAX47-SB118-01-03 07	03/13/07 11:09	03/13/07 13:12	03/21/07 09:00	7.91	NA	03/21/07 18:42	8.00	14.00	
JAX47-SB118-03-03 07	03/13/07 11:25	03/13/07 13:12	03/21/07 09:00	7.90	NA	03/21/07 18:08	8.00	14.00	
-TB01-	03/13/07 00:00	03/13/07 13:12	03/22/07 09:00	9.38	NA	03/23/07 15:59	11.00	14.00	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-021	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	7C22012-BLK1	File ID:	7CP006.D
Prepared:	03/21/07 09:00	Preparation:	EPA 5035_MS	Initial/Final:	5 g / 5 mL
Analyzed:	03/21/07 14:41	Instrument:	JVGCMS1		
Batch:	7C22012	Sequence:	BA00467	Calibration:	0704002

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
75-71-8	Dichlorodifluoromethane	0.0003	U
74-87-3	Chloromethane	0.0003	U
75-01-4	Vinyl chloride	0.0003	U
74-83-9	Bromomethane	0.0007	U
75-00-3	Chloroethane	0.0004	U
75-69-4	Trichlorofluoromethane	0.0004	U
75-35-4	1,1-Dichloroethene	0.0002	U
67-64-1	Acetone	0.0013	U
75-15-0	Carbon disulfide	0.0003	U
75-09-2	Methylene Chloride	0.0005	U
1634-04-4	Methyl-tert-Butyl Ether	0.0001	U
156-60-5	trans-1,2-Dichloroethene	0.0003	U
75-34-3	1,1-Dichloroethane	0.0002	U
78-93-3	2-Butanone	0.0013	U
156-59-2	cis-1,2-Dichloroethene	0.0002	U
67-66-3	Chloroform	0.0001	U
71-55-6	1,1,1-Trichloroethane	0.0001	U
56-23-5	Carbon Tetrachloride	0.0002	U
107-06-2	1,2-Dichloroethane	0.0001	U
71-43-2	Benzene	0.0001	U
79-01-6	Trichloroethene	0.0001	U
78-87-5	1,2-Dichloropropane	0.0001	U
75-27-4	Bromodichloromethane	0.0001	U
10061-01-5	cis-1,3-Dichloropropene	0.0002	U
108-10-1	4-Methyl-2-pentanone	0.0009	U
108-88-3	Toluene	0.000660	I
10061-02-6	trans-1,3-Dichloropropene	0.0002	U
110-82-7	Cyclohexane	0.0008	U
79-00-5	1,1,2-Trichloroethane	0.0002	U
79-20-9	Methyl acetate	0.0008	U

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-021	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	7C22012-BLK1	File ID:	7CP006.D
Prepared:	03/21/07 09:00	Preparation:	EPA 5035_MS	Initial/Final:	5 g / 5 mL
Analyzed:	03/21/07 14:41	Instrument:	JVGCMS1		
Batch:	7C22012	Sequence:	BA00467	Calibration:	0704002

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
108-87-2	Methyl cyclohexane	0.0009	U
127-18-4	Tetrachloroethene	0.0008	U
591-78-6	2-Hexanone	0.0008	U
124-48-1	Dibromochloromethane	0.0002	U
106-93-4	1,2-Dibromoethane	0.0002	U
108-90-7	Chlorobenzene	0.0001	U
100-41-4	Ethylbenzene	0.0002	U
100-42-5	Styrene	0.0002	U
75-25-2	Bromoform	0.0002	U
98-82-8	Isopropylbenzene	0.0002	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0002	U
541-73-1	1,3-Dichlorobenzene	0.0002	U
106-46-7	1,4-Dichlorobenzene	0.0001	U
95-50-1	1,2-Dichlorobenzene	0.0002	U
96-12-8	1,2-Dibromo-3-chloropropane	0.0003	U
120-82-1	1,2,4-Trichlorobenzene	0.0001	U
NA	Xylenes (Total)	0.0003	U
60-29-7	Diethyl ether	0.0008	U
76-13-1	Freon 113	0.0003	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	50.0	52.7	105	85 - 115	
4-Bromofluorobenzene	50.0	54.0	108	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	322515	10.89	361906	10.88	
1,4-Difluorobenzene	469035	11.54	527597	11.53	
Chlorobenzene-d5	465713	14.73	545160	14.73	
1,4-Dichlorobenzene-d4	260083	16.95	301643	16.94	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-021	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	7C23017-BLK1	File ID:	11CQ050.D
Prepared:	03/22/07 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	03/23/07 12:45	Instrument:	JVGCMS2		
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001

CAS NO.	COMPOUND	CONC. (ug/L)	Q
60-29-7	Diethyl ether	0.540	U
79-20-9	Methyl acetate	0.510	U
108-87-2	Methyl cyclohexane	0.550	U
110-82-7	Cyclohexane	0.450	U
75-71-8	Dichlorodifluoromethane	0.300	U
74-87-3	Chloromethane	0.300	U
75-01-4	Vinyl chloride	0.400	U
74-83-9	Bromomethane	0.600	U
75-00-3	Chloroethane	0.300	U
75-69-4	Trichlorofluoromethane	0.300	U
75-35-4	1,1-Dichloroethene	0.200	U
67-64-1	Acetone	2.00	U
75-15-0	Carbon disulfide	1.59	I
75-09-2	Methylene Chloride	2.00	U
1634-04-4	Methyl-tert-Butyl Ether	0.200	U
156-60-5	trans-1,2-Dichloroethene	0.200	U
75-34-3	1,1-Dichloroethane	0.200	U
78-93-3	2-Butanone	2.00	U
156-59-2	cis-1,2-Dichloroethene	0.200	U
67-66-3	Chloroform	0.200	U
71-55-6	1,1,1-Trichloroethane	0.300	U
56-23-5	Carbon Tetrachloride	0.300	U
107-06-2	1,2-Dichloroethane	0.100	U
71-43-2	Benzene	0.200	U
79-01-6	Trichloroethene	0.300	U
78-87-5	1,2-Dichloropropane	0.400	U
75-27-4	Bromodichloromethane	0.200	U
10061-01-5	cis-1,3-Dichloropropene	0.100	U
108-10-1	4-Methyl-2-pentanone	2.00	U
108-88-3	Toluene	0.230	I

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-021	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Water	Laboratory ID:	7C23017-BLK1	File ID:	11CQ050.D
Prepared:	03/22/07 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	03/23/07 12:45	Instrument:	JVGCMS2		
Batch:	7C23017	Sequence:	BA00473	Calibration:	0704001

CAS NO.	COMPOUND	CONC. (ug/L)	Q
10061-02-6	trans-1,3-Dichloropropene	0.200	U
79-00-5	1,1,2-Trichloroethane	0.300	U
127-18-4	Tetrachloroethene	0.300	U
591-78-6	2-Hexanone	0.600	U
124-48-1	Dibromochloromethane	0.200	U
106-93-4	1,2-Dibromoethane	0.100	U
108-90-7	Chlorobenzene	0.200	U
100-41-4	Ethylbenzene	0.300	U
100-42-5	Styrene	0.100	U
75-25-2	Bromoform	0.200	U
98-82-8	Isopropylbenzene	0.100	U
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U
541-73-1	1,3-Dichlorobenzene	0.200	U
106-46-7	1,4-Dichlorobenzene	0.100	U
95-50-1	1,2-Dichlorobenzene	0.200	U
96-12-8	1,2-Dibromo-3-chloropropane	0.300	U
120-82-1	1,2,4-Trichlorobenzene	0.100	U
76-13-1	Freon 113	0.580	U
NA	Xylenes (Total)	0.410	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.5	101	85 - 115	
Toluene-d8	50.0	49.9	100	85 - 120	
4-Bromofluorobenzene	50.0	49.1	98	75 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	253688	8.78	301427	8.78	
1,4-Difluorobenzene	388719	9.42	458265	9.42	
Chlorobenzene-d5	310590	12.97	371867	12.97	
1,4-Dichlorobenzene-d4	150346	16.07	191713	16.07	

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00493	Instrument:	JVGCMS2
Calibration:	0704001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B7D0018	0.2*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL1	11CQ023.D	03/22/07 23:17
B7D0017	1.0*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL2	11CQ025.D	03/23/07 00:21
B7D0016	5.0*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL3	11CQ027.D	03/23/07 01:26
B7D0019	20*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL4	11CQ028.D	03/23/07 01:58
B7D0020	50*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL5	11CQ029.D	03/23/07 02:30
B7D0021	100*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL6	11CQ031.D	03/23/07 03:35
B7D0022	200*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL7	11CQ034.D	03/23/07 05:12
B7D0017	1.0*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL8	11CQ036.D	03/23/07 06:17
B7D0016	5.0*(1/5/10/20ppb) Virtual Calibration	BA00493-CAL9	11CQ037.D	03/23/07 06:49
B7D0023	20*(1/5/10/20ppb) Virtual Calibration	BA00493-CALA	11CQ038.D	03/23/07 07:21
B7D0026	50*(1/5/10/20ppb) Virtual Calibration	BA00493-CALB	11CQ039.D	03/23/07 07:54
B7D0024	100*(1/5/10/20ppb) Virtual Calibration	BA00493-CALC	11CQ040.D	03/23/07 08:26
B7D0025	200*(1/5/10/20ppb) Virtual Calibration	BA00493-CALD	11CQ041.D	03/23/07 08:58

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Diethyl ether	0.2	0	1	0.6599666	5	0.6081891	20	0.6991731	50	0.6275947	100	0.6005462
Methyl acetate	0.2	0	1	1.458165	5	1.17722	20	1.282448	50	1.091129	100	1.064857
Methyl cyclohexane	0.2	0	1	1.336179	5	0.5585377	20	0.4829858	50	0.4279532	100	0.4213833
Cyclohexane	0.2	0	1	0.6480022	5	0.6119745	20	0.8276073	50	0.7911016	100	0.8002272
Dichlorodifluoromethane	0.2	0	1	1.275066	5	1.163719	20	1.346006	50	1.054371	100	1.123532
Chloromethane	0.2	0	1	1.344717	5	1.047717	20	1.154145	50	0.9510145	100	0.9857605
Vinyl chloride	0.2	0	1	1.001167	5	0.9798322	20	1.100254	50	0.9201588	100	0.9183412
Bromomethane	0.2	0	1	1.325702	5	1.100881	20	0.8549052	50	0.6018345	100	0.4952326
Chloroethane	0.2	0	1	0.640738	5	0.5037959	20	0.5599648	50	0.4366663	100	0.3875667
Trichlorofluoromethane	0.2	0	1	1.529097	5	1.381296	20	1.555307	50	1.318752	100	1.370947
Acrolein	1	0	5	0.1301559	25	0.1173561	100	0.119839	250	9.791756E-02	500	0.1119783
1,1-Dichloroethene	0.2	0	1	0.7736287	5	0.6613531	20	0.7491371	50	0.6480437	100	0.6342999
Acetone	1	0	5	0.674623	25	0.3359929	100	0.3254665	250	0.2552444	500	0.259916
Iodomethane	1	0	5	0.5850607	25	0.6047233	100	0.9812429	250	1.010667	500	0.9888326
Carbon disulfide	1	0	5	1.905079	25	1.759879	100	2.025983	250	1.623956	500	1.545647
Acetonitrile	2	0	10	0.2019639	50	0.1714117	200	0.1838295	500	0.1591428	1000	0.153026
3-Chloropropene	0.2	0	1	1.237037	5	1.127716	20	1.326874	50	1.209891	100	1.134963
Methylene Chloride	0.2	0	1	1.171446	5	0.8735463	20	0.9596965	50	0.8686422	100	0.7730327
Acrylonitrile	1	0.3265831	5	0.2809932	25	0.3008391	100	0.3320035	250	0.2683538	500	0.3040914
Methyl-tert-Butyl Ether	0.2	0	1	1.835472	5	1.888667	20	2.289984	50	2.20345	100	2.109765
trans-1,2-Dichloroethene	0.2	0	1	0.662744	5	0.6496183	20	0.7745722	50	0.6876076	100	0.6675464
1,1-Dichloroethane	0.2	0	1	1.267375	5	1.252087	20	1.436559	50	1.267852	100	1.200458
Vinyl acetate	1	0	5	1.310063	25	1.521373	100	1.856236	250	1.611739	500	1.519217
Isopropyl Ether	0.2	0	1	2.02968	5	2.18641	20	2.783884	50	2.640425	100	2.446745
Chloroprene	0.2	0	1	0.2905648	5	0.4210216	20	0.5720077	50	0.5662104	100	0.5535821
2-Butanone	1	0	5	8.165724E-02	25	0.0724275	100	8.584294E-02	250	7.432868E-02	500	7.642938E-02
cis-1,2-Dichloroethene	0.2	0	1	0.623646	5	0.6359067	20	0.7716319	50	0.7240791	100	0.6740633
2,2-Dichloropropane	0.2	0	1	0.8048217	5	0.7336544	20	0.8595874	50	0.7797212	100	0.7356217
Propionitrile	2	0	10	0.106633	50	0.1143067	200	0.1199387	500	0.1062823	1000	9.723792E-02
Methacrylonitrile	2	0	10	0.5999735	50	0.5979264	200	0.6623778	500	0.5785586	1000	0.5166304
Bromochloromethane	0.2	0	1	0.3439774	5	0.3508233	20	0.406891	50	0.3511535	100	0.3082346

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloroform	0.2	0	1	1.270153	5	1.270047	20	1.487107	50	1.317254	100	1.232051
1,1,1-Trichloroethane	0.2	0	1	0.9492494	5	0.9471935	20	1.094575	50	0.9815691	100	0.9592331
1,1-Dichloropropene	0.2	0	1	0.6734266	5	0.7080818	20	0.8978609	50	0.833884	100	0.8241521
Isobutyl alcohol	4	0	20	7.415811E-02	100	5.886101E-02	400	6.223744E-02	1000	5.305881E-02	2000	5.193938E-02
Carbon Tetrachloride	0.2	0	1	0.4872532	5	0.4882793	20	0.5528993	50	0.510864	100	0.4914191
1,2-Dichloroethane	0.2	0	1	0.6875036	5	0.6542401	20	0.7217699	50	0.6767219	100	0.620921
Benzene	0.2	0	1	1.647755	5	1.553099	20	1.792097	50	1.653535	100	1.471423
Trichloroethene	0.2	0	1	0.3392716	5	0.3515929	20	0.4105885	50	0.3746831	100	0.3588978
1,2-Dichloropropane	0.2	0	1	0.3442948	5	0.3510183	20	0.4187898	50	0.3892192	100	0.3485855
Methyl Methacrylate	0.2	0	1	0.1667169	5	0.2071364	20	0.3062594	50	0.3127189	100	0.3023692
1,4-Dioxane	4	0	20	3.075031E-03	100	3.355604E-03	400	4.465753E-03	1000	4.174206E-03	2000	4.482304E-03
Dibromomethane	0.2	0	1	0.31497	5	0.2989264	20	0.331587	50	0.3039885	100	0.2815107
Bromodichloromethane	0.2	0.5479518	1	0.5688467	5	0.5996312	20	0.702916	50	0.6637654	100	0.6010791
2-Chloroethyl Vinyl Ether	1	0	5	0	25	0	100	~~4.69393E-05~~	250	~~1.451435E-05~~	500	~~2.342052E-04~~
cis-1,3-Dichloropropene	0.2	0.4611143	1	0.4227658	5	0.4619872	20	0.610778	50	0.6208199	100	0.571098
4-Methyl-2-pentanone	1	0	5	4.138055E-02	25	5.135866E-02	100	6.617267E-02	250	6.094479E-02	500	6.119073E-02
Toluene	0.2	0	1	1.188818	5	0.9988101	20	1.133004	50	1.075006	100	1.001488
trans-1,3-Dichloropropene	0.2	0.4125624	1	0.4692702	5	0.5490455	20	0.6781252	50	0.6783633	100	0.634251
Ethyl Methacrylate	0.2	0	1	0.3339337	5	0.4696753	20	0.6556548	50	0.6647656	100	0.6633197
1,1,2-Trichloroethane	0.2	0	1	0.4189727	5	0.3998173	20	0.4653499	50	0.4306591	100	0.399636
1,3-Dichloropropane	0.2	0	1	0.6683859	5	0.7126955	20	0.810667	50	0.7938783	100	0.7285551
Tetrachloroethene	0.2	0	1	0.2929698	5	0.2870352	20	0.3144839	50	0.3027161	100	0.2915109
2-Hexanone	1	0	5	0.2613048	25	0.3149034	100	0.421475	250	0.3671444	500	0.3640758
Dibromochloromethane	0.2	0.432249	1	0.4967523	5	0.4869268	20	0.5674583	50	0.5605815	100	0.5184312
1,2-Dibromoethane	0.2	0	1	0.4333187	5	0.4232397	20	0.4909397	50	0.481921	100	0.4530501
Chlorobenzene	0.2	0	1	1.05642	5	1.018175	20	1.175656	50	1.123662	100	1.039341
1,1,1,2-Tetrachloroethane	0.2	0.3457992	1	0.4016883	5	0.4147503	20	0.4531546	50	0.4396245	100	0.4109396
Ethylbenzene	0.2	0	1	0.4419609	5	0.4785056	20	0.5491183	50	0.529378	100	0.5081161
m,p-Xylenes	0.4	0	2	0.4531093	10	0.5286404	40	0.6788267	100	0.6513232	200	0.6199867
o-Xylene	0.2	0	1	0.3724778	5	0.4680388	20	0.6437652	50	0.6417555	100	0.6163048
Styrene	0.2	0	1	0.5142095	5	0.8017483	20	1.154542	50	1.169369	100	1.121686

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0704001	Instrument:	JVGCMS2
Matrix:	Water	Calibration Date:	03/23/07 12:15

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Bromoform	0.2	0	1	0.3176864	5	0.346972	20	0.4010659	50	0.3946579	100	0.3832313
Isopropylbenzene	0.2	0	1	0.7114239	5	0.9447375	20	1.371314	50	1.342873	100	1.321662
1,1,2,2-Tetrachlorocthane	0.2	0.5555042	1	0.5703836	5	0.6002543	20	0.6449879	50	0.6052086	100	0.5764726
Bromobenzene	0.2	0	1	0.4091206	5	0.4279787	20	0.5263265	50	0.5094821	100	0.4898065
1,2,3-Trichloropropane	0.2	0.5743349	1	0.6194712	5	0.6400417	20	0.7487969	50	0.7166022	100	0.7072489
trans-1,4-Dichloro-2-butene	0.2	0	1	0.0814093	5	0.1081112	20	0.1381221	50	0.1432821	100	0.1542463
n-Propyl Benzene	0.2	0	1	1.261931	5	1.383763	20	1.846383	50	1.778931	100	1.75496
2-Chlorotoluene	0.2	0	1	1.904239	5	2.253562	20	2.789094	50	2.644662	100	2.446791
1,3,5-Trimethylbenzene	0.2	0	1	1.268437	5	1.623901	20	2.383717	50	2.305369	100	2.221234
4-Chlorotoluene	0.2	0	1	1.598477	5	1.787329	20	2.397898	50	2.31837	100	2.182227
tert-Butylbenzene	0.2	0	1	1.050639	5	1.262757	20	1.878248	50	1.854769	100	1.761865
Pentachloroethane	0.2	0	1	0.5418567	5	0.5189801	20	0.6263976	50	0.6055525	100	0.5751669
1,2,4-Trimethylbenzene	0.2	0	1	1.247326	5	1.844387	20	2.48329	50	2.438547	100	2.300026
sec-Butylbenzene	0.2	0	1	1.494328	5	1.979117	20	2.745286	50	2.634515	100	2.611632
1,3-Dichlorobenzene	0.2	0	1	1.162177	5	1.223147	20	1.516497	50	1.456419	100	1.373367
4-Isopropyltoluene	0.2	0	1	1.040083	5	1.451042	20	2.084661	50	2.084263	100	2.0255
1,4-Dichlorobenzene	0.2	0	1	1.371883	5	1.403213	20	1.575263	50	1.529273	100	1.429887
n-Butyl Benzene	0.2	0	1	1.199474	5	1.38846	20	1.968393	50	1.968728	100	1.907837
1,2-Dichlorobenzene	0.2	0	1	1.245918	5	1.327428	20	1.573283	50	1.542594	100	1.442082
1,2-Dibromo-3-chloropropane	0.2	0	1	0.2170945	5	0.2147597	20	0.2432292	50	0.2529223	100	0.2493213
1,2,4-Trichlorobenzene	0.2	0	1	0.5323566	5	0.5395938	20	0.718949	50	0.7554703	100	0.7264668
Hexachlorobutadiene	0.2	0	1	0.2441874	5	0.2411668	20	0.2956893	50	0.3036592	100	0.2914134
Naphthalene	0.2	0	1	1.281104	5	1.576746	20	2.068545	50	2.203721	100	2.176603
1,2,3-Trichlorobenzene	0.2	0	1	0.5816163	5	0.5875577	20	0.7374257	50	0.7548649	100	0.7256364
Freon 113	0.2	0	1	0.5779248	5	0.509432	20	0.5912502	50	0.5063573	100	0.5161913
Dibromofluoromethane	50	~~0.6535854~~	50	0.6680298	50	0.6467246	50	0.6411054	50	0.5988984	50	0.6082578
Toluene-d8	50	~~1.081913~~	50	1.076136	50	1.091278	50	1.091083	50	1.06708	50	1.054295
4-Bromofluorobenzene	50	~~0.5127655~~	50	0.5292296	50	0.5299837	50	0.5341046	50	0.5282257	50	0.5293643
1,2-Dichloroethane-d4	50	~~0.7495643~~	50	0.7746072	50	0.7520263	50	0.7212169	50	0.6806909	50	0.7034945

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Diethyl ether	200	0.5897148	1	0	5	0						
Methyl acetate	200	1.046235	1	0	5	0						
Methyl cyclohexane	200	0.4272694	1	0	5	0						
Cyclohexane	200	0.800205	1	0	5	0						
Dichlorodifluoromethane	200	1.052043	1	0	5	0						
Chloromethane	200	1.093285	1	0	5	0						
Vinyl chloride	200	0.8782306	1	0	5	0						
Bromomethane	200	0.3980157	1	0	5	0						
Chloroethane	200	0.3334362	1	0	5	0						
Trichlorofluoromethane	200	1.279831	1	0	5	0						
Acrolein	1000	0.1034484	5	0	25	0						
1,1-Dichloroethene	200	0.6315467	1	0	5	0						
Acetone	1000	0.2488173	5	0	25	0	100	0	250	0	500	0
Iodomethane	1000	0.9303328	5	0	25	0	100	0	250	0	500	0
Carbon disulfide	1000	1.42005	5	0	25	0	100	0	250	0	500	0
Acetonitrile	2000	0.1509406	10	0	50	0						
3-Chloropropene	200	1.031107	1	0	5	0						
Methylene Chloride	200	0.7366789	1	0	5	0						
Acrylonitrile	1000	0.2864957	5	0	25	0						
Methyl-tert-Butyl Ether	200	2.135972	1	0	5	0						
trans-1,2-Dichloroethene	200	0.6880807	1	0	5	0						
1,1-Dichloroethane	200	1.221818	1	0	5	0						
Vinyl acetate	1000	1.349141	5	0	25	0	100	0	250	0	500	0
Isopropyl Ether	200	2.378169	1	0	5	0						
Chloroprene	200	0.5683706	1	0	5	0						
2-Butanone	1000	7.868514E-02	5	0	25	0	100	0	250	0	500	0
cis-1,2-Dichloroethene	200	0.7020307	1	0	5	0						
2,2-Dichloropropane	200	0.7288753	1	0	5	0						
Propionitrile	2000	8.533229E-02	10	0	50	0						
Methacrylonitrile	2000	0.4376608	10	0	50	0						
Bromochloromethane	200	0.2921828	1	0	5	0						

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloroform	200	1.25188	1	0	5	0						
1,1,1-Trichloroethane	200	0.9643811	1	0	5	0						
1,1-Dichloropropene	200	0.8316333	1	0	5	0						
Isobutyl alcohol	4000	5.077581E-02	20	0	100	0						
Carbon Tetrachloride	200	0.5029483	1	0	5	0						
1,2-Dichloroethane	200	0.6343819	1	0	5	0						
Benzene	200	1.383525	1	0	5	0						
Trichloroethene	200	0.363231	1	0	5	0						
1,2-Dichloropropane	200	0.3493329	1	0	5	0						
Methyl Methacrylate	200	0.3149606	1	0	5	0						
1,4-Dioxane	4000	4.596139E-03	20	0	100	0						
Dibromomethane	200	0.2933547	1	0	5	0						
Bromodichloromethane	200	0.6134719	1	0	5	0						
2-Chloroethyl Vinyl Ether	1000	~~1.183951E-05~~	5	3.156701E-02	25	3.858636E-02	100	4.603052E-02	250	4.639768E-02	500	~~0.1311723~~
cis-1,3-Dichloropropene	200	0.5868301	1	0	5	0						
4-Methyl-2-pentanone	1000	0.0619037	5	0	25	0	100	0	250	0	500	0
Toluene	200	1.00737	1	0	5	0						
trans-1,3-Dichloropropene	200	0.6262886	1	0	5	0						
Ethyl Methacrylate	200	0.6756294	1	0	5	0						
1,1,2-Trichloroethane	200	0.3991368	1	0	5	0						
1,3-Dichloropropane	200	0.7164508	1	0	5	0						
Tetrachloroethene	200	0.3016332	1	0	5	0						
2-Hexanone	1000	0.3403804	5	0	25	0	100	0	250	0	500	0
Dibromochloromethane	200	0.5196217	1	0	5	0						
1,2-Dibromoethane	200	0.4512044	1	0	5	0						
Chlorobenzene	200	1.036521	1	0	5	0						
1,1,1,2-Tetrachloroethane	200	0.4123512	1	0	5	0						
Ethylbenzene	200	0.5146271	1	0	5	0						
m,p-Xylenes	400	0.6215441	2	0	10	0						
o-Xylene	200	0.6299243	1	0	5	0						
Styrene	200	1.154193	1	0	5	0						

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Bromoform	200	0.401181	1	~~0~~	5	~~0~~						
Isopropylbenzene	200	1.352801	1	~~0~~	5	~~0~~						
1,1,2,2-Tetrachloroethane	200	0.5905993	1	~~0~~	5	~~0~~						
Bromobenzene	200	0.5074196	1	~~0~~	5	~~0~~						
1,2,3-Trichloropropane	200	0.7331356	1	~~0~~	5	~~0~~						
trans-1,4-Dichloro-2-butene	200	0.1587698	1	~~0~~	5	~~0~~						
n-Propyl Benzene	200	1.772821	1	~~0~~	5	~~0~~						
2-Chlorotoluene	200	2.384577	1	~~0~~	5	~~0~~						
1,3,5-Trimethylbenzene	200	2.189214	1	~~0~~	5	~~0~~						
4-Chlorotoluene	200	2.129627	1	~~0~~	5	~~0~~						
tert-Butylbenzene	200	1.781768	1	~~0~~	5	~~0~~						
Pentachloroethane	200	0.580633	1	~~0~~	5	~~0~~						
1,2,4-Trimethylbenzene	200	2.246461	1	~~0~~	5	~~0~~						
sec-Butylbenzene	200	2.576739	1	~~0~~	5	~~0~~						
1,3-Dichlorobenzene	200	1.370689	1	~~0~~	5	~~0~~						
4-Isopropyltoluene	200	2.021643	1	~~0~~	5	~~0~~						
1,4-Dichlorobenzene	200	1.416411	1	~~0~~	5	~~0~~						
n-Butyl Benzene	200	1.935316	1	~~0~~	5	~~0~~						
1,2-Dichlorobenzene	200	1.45463	1	~~0~~	5	~~0~~						
1,2-Dibromo-3-chloropropane	200	0.262035	1	~~0~~	5	~~0~~						
1,2,4-Trichlorobenzene	200	0.7751166	1	~~0~~	5	~~0~~						
Hexachlorobutadiene	200	0.3068499	1	~~0~~	5	~~0~~						
Naphthalene	200	2.312193	1	~~0~~	5	~~0~~						
1,2,3-Trichlorobenzene	200	0.773337	1	~~0~~	5	~~0~~						
Freon 113	200	0.5229285	1	~~0~~	5	~~0~~						
Dibromofluoromethane	50	0.6247742	50	~~0.6231064~~	50	~~0.617207~~	50	~~0.6381836~~	50	~~0.6218913~~	50	~~0.6305392~~
Toluene-d8	50	1.081929	50	~~1.069526~~	50	~~1.081384~~	50	~~1.091128~~	50	~~1.097195~~	50	~~1.097349~~
4-Bromofluorobenzene	50	0.5479724	50	~~0.5333645~~	50	~~0.528745~~	50	~~0.5201453~~	50	~~0.5171087~~	50	~~0.5201065~~
1,2-Dichloroethane-d4	50	0.7018993	50	~~0.6927873~~	50	~~0.6925174~~	50	~~0.7059997~~	50	~~0.6995529~~	50	~~0.7072659~~

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diethyl ether	0.6308641	6.593212	5.615	9.682867E-02			15.4	
Methyl acetate	1.186676	13.41231	6.665	8.110162E-02			15.4	
Methyl cyclohexane	0.6090514	59.11831	9.443333	0.1291879	0.9997742		0.99	
Cyclohexane	0.7465196	12.29725	8.168333	4.915513E-02			15.4	
Dichlorodifluoromethane	1.169123	10.22805	4.016667	0.1288163			15.4	
Chloromethane	1.096106	12.95065	4.356667	0.2373563			SPCC (0.1)	
Vinyl chloride	0.9663306	8.217423	4.471666	9.072885E-02			CCC (20)	
Bromomethane	0.7960952	45.7604	4.941667	0.1529535		0.9962989	0.99	
Chloroethane	0.477028	23.83665	5.11	0.1227585	0.9898367		0.99	
Trichlorofluoromethane	1.405872	7.972634	5.275	0.104171			15.4	
Acrolein	0.1134492	10.26897	6.275	8.921406E-02			15.4	
1,1-Dichloroethene	0.6830015	9.09583	5.901667	6.909637E-02			CCC (20)	
Acetone	0.35001	46.68649	6.576667	7.721815E-02	0.9992124		0.99	
Iodomethane	0.8501432	23.47362	6.115	8.848005E-02	0.9984951		0.99	
Carbon disulfide	1.713432	13.27806	6	0			15.4	
Acetonitrile	0.1700524	11.71447	7.116667	0.114022			15.4	
3-Chloropropene	1.177931	8.709392	6.413333	7.826527E-02			15.4	
Methylene Chloride	0.8971738	17.38767	6.533333	7.949986E-02	0.9978171		0.99	
Acrylonitrile	0.2999085	7.811899	7.424286	7.216728E-02			15.4	
Methyl-tert-Butyl Ether	2.077218	8.603915	6.778334	6.071458E-02			15.4	
trans-1,2-Dichloroethene	0.6883615	6.504403	6.701667	5.768975E-02			15.4	
1,1-Dichloroethane	1.274358	6.576382	7.361667	5.458539E-02			SPCC (0.1)	
Vinyl acetate	1.527962	12.90343	7.538333	5.663212E-02			15.4	
Isopropyl Ether	2.410885	11.58254	7.123333	7.150524E-02			15.4	
Chloroprene	0.4952929	23.38603	7.33	1.997676E-02	0.9998148		0.99	
2-Butanone	7.822848E-02	6.315436	8.483333	6.010157E-02			15.4	
cis-1,2-Dichloroethene	0.6885596	8.096627	7.915	6.895888E-02			15.4	
2,2-Dichloropropane	0.7737136	6.702015	8.048333	0.0549021			15.4	
Propionitrile	0.1049552	11.75562	8.848334	4.928121E-02			15.4	
Methacrylonitrile	0.5655213	13.81678	8.86	7.263549E-02			15.4	
Bromochloromethane	0.3422104	11.68724	8.14	5.734557E-03			15.4	
Chloroform	1.304749	7.180928	8.16	2.450681E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	0.9827002	5.717307	8.44	2.511571E-02			15.4	
1,1-Dichloropropene	0.7948398	10.76683	8.55	1.962421E-02			15.4	
Isobutyl alcohol	5.850509E-02	15.12639	6.665	8.110162E-02	0.9995748		0.99	
Carbon Tetrachloride	0.5056105	4.932384	8.37	1.822986E-02			15.4	
1,2-Dichloroethane	0.6659231	5.561346	9.041667	4.021958E-02			15.4	
Benzene	1.583572	9.195485	8.836667	5.370767E-02			15.4	
Trichloroethene	0.3663775	6.733161	9.428334	4.159216E-02			15.4	
1,2-Dichloropropane	0.3668734	8.26571	10.04	1.396751E-02			CCC (20)	
Methyl Methacrylate	0.2683602	24.04105	10.13833	4.507043E-02	0.9996192		0.99	
1,4-Dioxane	4.02484E-03	16.111	10.27333	0.0505845	0.9995016		0.99	
Dibromomethane	0.3040562	5.746017	9.93	1.514993E-02			15.4	
Bromodichloromethane	0.6139517	8.70999	10.05571	0.0507233			15.4	
2-Chloroethyl Vinyl Ether	4.545539E-02	27.20012	10.63	1.905026E-03	0.9954279		0.99	
cis-1,3-Dichloropropene	0.5336276	15.39051	10.77714	4.807222E-02	0.9994724		0.99	
4-Methyl-2-pentanone	5.715852E-02	15.97626	11.46667	5.046694E-02	0.9998585		0.99	
Toluene	1.067416	7.466194	11.07333	4.429919E-02			CCC (20)	
trans-1,3-Dichloropropene	0.5782723	18.08512	11.52714	3.482191E-02	0.9994922		0.99	
Ethyl Methacrylate	0.5771631	24.70633	11.62333	4.349847E-02	0.9999306		0.99	
1,1,2-Trichloroethane	0.4189286	6.244472	11.74667	4.273051E-02			15.4	
1,3-Dichloropropane	0.7384388	7.277984	12.115	4.011408E-02			15.4	
Tetrachloroethene	0.2983915	3.330728	11.55	2.543281E-02			15.4	
2-Hexanone	0.3448806	15.6869	12.49	1.449083E-02	0.9983389		0.99	
Dibromochloromethane	0.5117172	9.010577	12	0			15.4	
1,2-Dibromoethane	0.4556123	5.816289	12.36167	3.266172E-02			15.4	
Chlorobenzene	1.074962	5.708255	12.99167	3.412897E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4111868	8.277007	13.04714	3.680382E-02			15.4	
Ethylbenzene	0.5036177	7.591007	12.97167	0.0268103			CCC (20)	
m,p-Xylenes	0.5922384	14.33125	13.15	0.0178973			15.4	
o-Xylene	0.5620444	20.34179	13.74667	3.866188E-02	0.9997771		0.99	
Styrene	0.985958	27.41326	13.81	9.251617E-03	0.9997274		0.99	
Bromoform	0.3741324	9.169833	13.90167	3.152414E-02			SPCC (0.1)	
Isopropylbenzene	1.174135	23.7181	14.15	6.929054E-03	0.999837		0.99	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704001
Instrument: JVGCMS2
Matrix: Water
Calibration Date: 03/23/07 12:15

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5919158	4.921902	14.80143	2.702876E-02			SPCC (0.3)	
Bromobenzene	0.4783557	10.05926	14.78	1.210796E-02			15.4	
1,2,3-Trichloropropane	0.6770902	9.723125	15.05857	3.005425E-02			15.4	
trans-1,4-Dichloro-2-butene	0.1306568	22.94957	15.07333	3.454561E-02	0.9995101		0.99	
n-Propyl Benzene	1.633131	15.02529	14.72667	3.375929E-02			15.4	
2-Chlorotoluene	2.403821	12.90038	15.00167	0.0276984			15.4	
1,3,5-Trimethylbenzene	1.998645	22.39663	14.97833	3.036019E-02	0.9996201		0.99	
4-Chlorotoluene	2.068988	15.09324	15.23667	0.0355086	0.9992808		0.99	
tert-Butylbenzene	1.598341	21.97947	15.44167	2.581225E-02	0.9996968		0.99	
Pentachloroethane	0.5747645	6.890894	15.50167	2.590144E-02			15.4	
1,2,4-Trimethylbenzene	2.093339	22.55976	15.525	3.314315E-02	0.999314		0.99	
sec-Butylbenzene	2.34027	21.16088	15.66667	3.406565E-02	0.9998194		0.99	
1,3-Dichlorobenzene	1.350383	10.01161	15.98667	3.471362E-02			15.4	
4-Isopropyltoluene	1.784532	24.54941	15.82333	2.974702E-02	0.9998361		0.99	
1,4-Dichlorobenzene	1.454322	5.473875	16.08333	3.318314E-02			15.4	
n-Butyl Benzene	1.728035	19.80593	16.32667	2.008305E-02	0.9998531		0.99	
1,2-Dichlorobenzene	1.430989	8.748408	16.59833	1.253363E-02			15.4	
1,2-Dibromo-3-chloropropane	0.2398937	8.150489	17.57667	3.026544E-02			15.4	
1,2,4-Trichlorobenzene	0.6746589	16.20456	18.45167	2.254817E-02	0.999116		0.99	
Hexachlorobutadiene	0.2804943	10.63126	18.36667	3.304899E-02			15.4	
Naphthalene	1.936485	21.24913	18.92667	0.0259179	0.9992655		0.99	
1,2,3-Trichlorobenzene	0.6934063	12.37963	19.19667	2.350721E-02			15.4	
Freon 113	0.5373473	6.936882	5.903333	8.686165E-02			15.4	
Dibromofluoromethane	0.6312984	4.073466	8.361666	5.049555E-02			15.4	
Toluene-d8	1.076967	1.339811	11.01	1.721084E-02			15.4	
4-Bromofluorobenzene	0.5331467	1.415096	14.59	8.963318E-03			15.4	
1,2-Dichloroethane-d4	0.7223225	4.844292	8.97	1.808052E-02			15.4	

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00509	Instrument:	JVGCMS1
Calibration:	0704002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B7D0047	1.0*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL7	7CM005.D	03/18/07 19:24
B7D0040	1.0*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL1	7CM007.D	03/18/07 20:30
B7D0046	5.0*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL8	7CM009.D	03/18/07 21:37
B7D0039	5.0*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL2	7CM010.D	03/18/07 22:10
B7D0048	20*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL9	7CM011.D	03/18/07 22:43
B7D0042	20*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL3	7CM012.D	03/18/07 23:17
B7D0049	50*(1/5/10/20ppb) Virtual Calibration	BA00509-CALA	7CM013.D	03/18/07 23:51
B7D0043	50*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL4	7CM014.D	03/19/07 00:24
B7D0050	100*(1/5/10/20ppb) Virtual Calibration	BA00509-CALB	7CM016.D	03/19/07 01:30
B7D0044	100*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL5	7CM017.D	03/19/07 02:03
B7D0051	200*(1/5/10/20ppb) Virtual Calibration	BA00509-CALC	7CM020.D	03/19/07 03:43
B7D0045	200*(1/5/10/20ppb) Virtual Calibration	BA00509-CAL6	7CM021.D	03/19/07 04:17

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00473	Instrument:	JVGCMS2
Matrix:	Water	Calibration:	0704001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00473-TUN1	11CQ044.D	03/23/07 10:35
Calibration Check	BA00473-CCV1	11CQ046.D	03/23/07 11:07
Blank	7C23017-BLK1	11CQ050.D	03/23/07 12:45
LCS	7C23017-BS1	11CQ051.D	03/23/07 13:17
JAX47-MW31D-030709	7C23017-MS1	11CQ052.D	03/23/07 13:49
JAX47-MW31D-030709	7C23017-MSD1	11CQ053.D	03/23/07 14:22
-TB01-	B702385-03	11CQ056.D	03/23/07 15:59

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C23017 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C23017-BLK1	11CQ050.D	03/22/07 09:00	
LCS	7C23017-BS1	11CQ051.D	03/22/07 09:00	
JAX47-MW31D-030709	7C23017-MS1	11CQ052.D	03/22/07 09:00	
JAX47-MW31D-030709	7C23017-MSD1	11CQ053.D	03/22/07 09:00	
-TB01-	B702385-03	11CQ056.D	03/22/07 09:00	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	11CQ044.D	Injection Date:	03/23/07
Instrument ID:	JVGCMS2	Injection Time:	10:35
Sequence:	BA00473	Lab Sample ID:	BA00473-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.5	PASS
75	30 - 60% of 95	49	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.13	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	80.8	PASS
175	5 - 9% of 174	7.32	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	6.42	PASS

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS2	Calibration:	0704001
Lab File ID:	11CQ046.D	Calibration Date:	03/23/07 12:15
Sequence:	BA00473	Injection Date:	03/23/07
Lab Sample ID:	BA00473-CCV1	Injection Time:	11:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Dichlorodifluoromethane	A	50.0	46.4	1.169123	1.08455		-7.2		
Chloromethane	A	50.0	49.4	1.096106	1.08274	0.1	-1.2		
Vinyl chloride	A	50.0	49.8	0.9663306	0.962561		-0.4	20	
Bromomethane	Q	50.0	30.2	0.7960952	0.399095		-39.6	20	*
Chloroethane	L	50.0	59.8	0.477028	0.453211		19.6		
Trichlorofluoromethane	A	50.0	50.1	1.405872	1.40769		0.1		
1,1-Dichloroethene	A	50.0	52.0	0.6830015	0.710587		4.0	20	
Acetone	L	250	283	0.35001	0.294767		13.2		
Carbon disulfide	A	250	252	1.713432	1.72992		1.0		
Methylene Chloride	L	50.0	59.8	0.8971738	0.933523		19.5		
Methyl-tert-Butyl Ether	A	50.0	58.7	2.077218	2.43826		17.4		
trans-1,2-Dichloroethene	A	50.0	55.6	0.6883615	0.765081		11.1		
1,1-Dichloroethane	A	50.0	53.8	1.274358	1.37233	0.1	7.7	20	
2-Butanone	A	250	264	7.822848E-02	0.0826986		5.7		
cis-1,2-Dichloroethene	A	50.0	56.4	0.6885596	0.777163		12.9		
Chloroform	A	50.0	54.0	1.304749	1.40818		7.9	20	
1,1,1-Trichloroethane	A	50.0	53.4	0.9827002	1.04986		6.8	20	
Carbon Tetrachloride	A	50.0	55.0	0.5056105	0.556602		10.1	20	
1,2-Dichloroethane	A	50.0	54.3	0.6659231	0.72347		8.6		
Benzene	A	50.0	54.8	1.583572	1.73521		9.6	20	
Trichloroethene	A	50.0	55.1	0.3663775	0.403987		10.3	20	
1,2-Dichloropropane	A	50.0	55.7	0.3668734	0.408515		11.4		
Bromodichloromethane	A	50.0	56.3	0.6139517	0.691517		12.6	20	
cis-1,3-Dichloropropene	L	50.0	52.6	0.5336276	0.617047		5.2	20	
4-Methyl-2-pentanone	L	250	267	5.715852E-02	0.0658427		6.9		
Toluene	A	50.0	54.4	1.067416	1.16032		8.7	20	
trans-1,3-Dichloropropene	L	50.0	54.5	0.5782723	0.693552		9.0	20	
1,1,2-Trichloroethane	A	50.0	56.3	0.4189286	0.471644		12.6	20	
Tetrachloroethene	A	50.0	54.5	0.2983915	0.325076		8.9	20	

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS2	Calibration:	0704001
Lab File ID:	11CQ046.D	Calibration Date:	03/23/07 12:15
Sequence:	BA00473	Injection Date:	03/23/07
Lab Sample ID:	BA00473-CCV1	Injection Time:	11:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone	L	250	282	0.3448806	0.400315		12.6	
Dibromochloromethane	A	50.0	57.9	0.5117172	0.592564		15.8	20
1,2-Dibromoethane	A	50.0	55.6	0.4556123	0.506192		11.1	20
Chlorobenzene	A	50.0	55.3	1.074962	1.18836	0.3	10.5	20
Ethylbenzene	A	50.0	56.3	0.5036177	0.566813		12.5	20
m,p-Xylenes	A	100	118	0.5922384	0.697611		17.8	20
o-Xylene	L	50.0	55.4	0.5620444	0.692543		10.8	20
Styrene	L	50.0	55.3	0.985958	1.26032		10.6	20
Bromoform	A	50.0	57.2	0.3741324	0.428062	0.1	14.4	20
Isopropylbenzene	L	50.0	54.2	1.174135	1.44658		8.4	20
1,1,2,2-Tetrachloroethane	A	50.0	54.5	0.5919158	0.644876	0.3	8.9	20
1,3-Dichlorobenzene	A	50.0	58.1	1.350383	1.56856		16.2	20
1,4-Dichlorobenzene	A	50.0	56.1	1.454322	1.63093		12.1	20
1,2-Dichlorobenzene	A	50.0	57.3	1.430989	1.63878		14.5	20
1,2-Dibromo-3-chloropropane	A	50.0	56.8	0.2398937	0.272272		13.5	20
1,2,4-Trichlorobenzene	L	50.0	53.3	0.6746589	0.798005		6.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00473	Instrument:	JVGCMS2
Matrix:	Water	Calibration:	0704001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (7C23017-BLK1)			Lab File ID: 11CQ050.D			Analyzed: 03/23/07 12:45			
Pentafluorobenzene	253688	8.78	301427	8.78	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	388719	9.42	458265	9.42	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	310590	12.97	371867	12.97	84	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	150346	16.07	191713	16.07	78	50 - 200	0.0000	+/-0.50	
-TB01- (B702385-03)			Lab File ID: 11CQ056.D			Analyzed: 03/23/07 15:59			
Pentafluorobenzene	251373	8.78	301427	8.78	83	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	385090	9.42	458265	9.42	84	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	297781	12.97	371867	12.97	80	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	144839	16.07	191713	16.07	76	50 - 200	0.0000	+/-0.50	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00473	Instrument:	JVGCMS2
Matrix:	Water	Calibration:	0704001

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (7C23017-BLK1)			Lab File ID: 11CQ050.D		Analyzed: 03/23/07 12:45			
Dibromofluoromethane	50.0	101	85 - 115	8.36	8.361666	-0.0017	+/-0.5	
Toluene-d8	50.0	100	85 - 120	11.01	11.01	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	98	75 - 120	14.59	14.59	0.0000	+/-0.5	
-TB01- (B702385-03)			Lab File ID: 11CQ056.D		Analyzed: 03/23/07 15:59			
Dibromofluoromethane	50.0	103	85 - 115	8.37	8.361666	0.0083	+/-0.5	
Toluene-d8	50.0	98	85 - 120	11.01	11.01	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	99	75 - 120	14.59	14.59	0.0000	+/-0.5	

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Water
Batch: 7C23017
Laboratory ID: 7C23017-BS1
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	23.3	117	30 - 155
Chloromethane	20.0	16.1	81	40 - 125
Vinyl chloride	20.0	19.4	97	50 - 145
Bromomethane	20.0	0.00	*	30 - 145
Chloroethane	20.0	16.3	82	60 - 135
Trichlorofluoromethane	20.0	20.4	102	60 - 145
1,1-Dichloroethene	20.0	17.2	86	70 - 130
Acetone	50.0	30.8	62	40 - 140
Carbon disulfide	20.0	23.6	118	35 - 160
Methylene Chloride	20.0	16.0	80	55 - 140
Methyl-tert-Butyl Ether	20.0	16.9	84	65 - 125
trans-1,2-Dichloroethene	20.0	17.4	87	60 - 140
1,1-Dichloroethane	20.0	18.4	92	70 - 135
2-Butanone	50.0	39.4	79	30 - 150
cis-1,2-Dichloroethene	20.0	16.6	83	70 - 125
Chloroform	20.0	17.6	88	65 - 135
1,1,1-Trichloroethane	20.0	18.2	91	65 - 130
Carbon Tetrachloride	20.0	19.1	96	65 - 140
1,2-Dichloroethane	20.0	17.0	85	70 - 130
Benzene	20.0	17.5	87	80 - 120
Trichloroethene	20.0	17.8	89	70 - 125
1,2-Dichloropropane	20.0	17.6	88	75 - 125
Bromodichloromethane	20.0	16.9	84	75 - 102
cis-1,3-Dichloropropene	20.0	16.6	83	70 - 130
4-Methyl-2-pentanone	50.0	39.4	79	60 - 135
Toluene	20.0	16.8	84	75 - 120
trans-1,3-Dichloropropene	20.0	18.2	91	55 - 140
1,1,2-Trichloroethane	20.0	17.1	86	75 - 125
Tetrachloroethene	20.0	18.8	94	45 - 150
2-Hexanone	50.0	29.3	59	55 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Water		
Batch:	7C23017	Laboratory ID:	7C23017-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	20.0	17.3	86	54 - 120
1,2-Dibromoethane	20.0	17.4	87	80 - 120
Chlorobenzene	20.0	17.4	87	80 - 120
Ethylbenzene	20.0	16.9	84	75 - 125
m,p-Xylenes	40.0	35.8	89	75 - 130
o-Xylene	20.0	16.5	83	80 - 120
Styrene	20.0	16.0	80	65 - 135
Bromoform	20.0	17.1	86	70 - 130
Isopropylbenzene	20.0	18.5	92	75 - 125
1,1,2,2-Tetrachloroethane	20.0	17.5	87	65 - 130
1,3-Dichlorobenzene	20.0	17.9	89	75 - 125
1,4-Dichlorobenzene	20.0	17.0	85	75 - 125
1,2-Dichlorobenzene	20.0	17.1	86	70 - 120
1,2-Dibromo-3-chloropropane	20.0	15.5	78	50 - 130
1,2,4-Trichlorobenzene	20.0	16.2	81	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	1	0.8017095	5	0.7702423	20	0.7936485	50	0.7997752	100	0.6465538	200	0.6985652
Chloromethane	1	0.6808186	5	0.5753257	20	0.6499694	50	0.6656704	100	0.6554991	200	0.6233763
Vinyl chloride	1	0.4794848	5	0.4958394	20	0.528455	50	0.5333905	100	0.4944028	200	0.4858053
Bromomethane	1	0.4700809	5	0.2503915	20	0.2945828	50	0.2908699	100	0.2681562	200	0.2985656
Chloroethane	1	0.4151305	5	0.3129041	20	0.3537093	50	0.3422741	100	0.2896428	200	0.3079158
Trichlorofluoromethane	1	0.7892465	5	0.806016	20	0.8793752	50	0.8507664	100	0.7224329	200	0.7725098
Acrolein	5	6.671093E-02	25	9.928964E-02	100	6.571879E-02	250	6.569869E-02	500	6.477379E-02	1000	6.161335E-02
1,1-Dichloroethene	1	0.5069034	5	0.3695965	20	0.4286891	50	0.4204984	100	0.3912004	200	0.4141821
Acetone	5	0.2236765	25	0.1348539	100	0.1328204	250	0.1137878	500	0.1136204	1000	0.1190824
Iodomethane	5	0.1130959	25	0.278124	100	0.5468577	250	0.6133349	500	0.6238648	1000	0.6986548
Carbon disulfide	5	1.40025	25	1.212818	100	1.267775	250	1.260638	500	1.099223	1000	1.136907
Acetonitrile	10	7.900396E-02	50	4.065148E-02	200	4.518601E-02	500	3.989196E-02	1000	3.886498E-02	2000	3.987996E-02
3-Chloropropene	1	0.3047765	5	0.4256557	20	0.5707282	50	0.6040811	100	0.6047829	200	0.6157378
Methylene Chloride	1	9.367969	5	0.6319693	20	0.5193854	50	0.4927354	100	0.4690137	200	0.4726644
Acrylonitrile	5	0.1193727	25	0.236306	100	0.1424454	250	0.1444292	500	0.140712	1000	0.1364174
Methyl-tert-Butyl Ether	1	1.182057	5	1.252201	20	1.286372	50	1.240703	100	1.225836	200	1.218842
trans-1,2-Dichloroethene	1	0.4934207	5	0.4496185	20	0.4744224	50	0.4773989	100	0.4409002	200	0.4598196
1,1-Dichloroethane	1	0.8142858	5	0.8637556	20	0.9131564	50	0.8743755	100	0.8330172	200	0.8233991
Vinyl acetate	5	0.8586313	25	0.7980869	100	0.8611378	250	0.8255126	500	0.7550099	1000	0.7149699
Isopropyl Ether	1	1.604439	5	1.527359	20	1.606691	50	1.569855	100	1.504385	200	1.511808
Chloroprene	1	0.3496432	5	0.2968802	20	0.3446956	50	0.3817912	100	0.350616	200	0.3746386
2-Butanone	5	6.134052E-02	25	4.404864E-02	100	4.590848E-02	250	3.974134E-02	500	4.288767E-02	1000	4.471041E-02
cis-1,2-Dichloroethene	1	0.5338687	5	0.5134705	20	0.4923132	50	0.5157898	100	0.4890561	200	0.487682
2,2-Dichloropropane	1	0.7039317	5	0.7140857	20	0.7751552	50	0.7334193	100	0.6992735	200	0.6927649
Propionitrile	10	4.399432E-02	50	4.992244E-02	200	5.098871E-02	500	4.660783E-02	1000	4.652535E-02	2000	0.0460108
Methacrylonitrile	10	0.2823771	50	0.2668683	200	0.2921564	500	0.2748883	1000	0.2680477	2000	0.2560703
Bromochloromethane	1	0.2350971	5	0.2307147	20	0.2420597	50	0.2288391	100	0.2122148	200	0.2085927
Chloroform	1	1.012674	5	0.940417	20	1.006238	50	0.9697354	100	0.919968	200	0.9220834
1,1,1-Trichloroethane	1	0.8566599	5	0.8261798	20	0.8976884	50	0.8555	100	0.7997004	200	0.8384692
1,1-Dichloropropene	1	0.7579758	5	0.6035745	20	0.6677484	50	0.6698751	100	0.6072229	200	0.6422032
Isobutyl alcohol	20	4.725735E-02	100	4.184596E-02	400	4.386533E-02	1000	4.230046E-02	2000	4.184094E-02	4000	4.148433E-02

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Carbon Tetrachloride	1	0.6982746	5	0.4935592	20	0.5233693	50	0.5330827	100	0.4734214	200	0.5052874
1,2-Dichloroethane	1	0.6310111	5	0.5181456	20	0.5098988	50	0.5076962	100	0.4815285	200	0.4743457
Benzene	1	1.289669	5	1.128462	20	1.10725	50	1.111264	100	1.021091	200	1.013816
Trichloroethene	1	0.360335	5	0.3136588	20	0.3160176	50	0.3354155	100	0.2943336	200	0.3141938
1,2-Dichloropropane	1	0.2925309	5	0.3049231	20	0.2829782	50	0.2935181	100	0.2740788	200	0.2688405
Methyl Methacrylate	1	0.2251901	5	0.1624938	20	0.1791575	50	0.1844524	100	0.1800813	200	0.1808046
1,4-Dioxane	20	3.679804E-03	100	3.183913E-03	400	2.664299E-03	1000	2.740101E-03	2000	2.837872E-03	4000	2.965544E-03
Dibromomethane	1	0.2362334	5	0.2172743	20	0.2111274	50	0.2040665	100	0.1930365	200	0.1945912
Bromodichloromethane	1	0.5062916	5	0.5327646	20	0.5225855	50	0.5219362	100	0.4914252	200	0.4947371
2-Chloroethyl Vinyl Ether	5	~~3.119918E-03~~	25	~~7.973965E-04~~	100	~~1.510327E-04~~	250	~~1.59098E-04~~	500	~~1.156081E-04~~	1000	~~1.55197E-04~~
cis-1,3-Dichloropropene	1	0.5205783	5	0.4928299	20	0.5057556	50	0.5144779	100	0.4847439	200	0.4764436
4-Methyl-2-pentanone	5	3.845839E-02	25	3.663162E-02	100	4.071434E-02	250	3.702194E-02	500	3.576846E-02	1000	3.635652E-02
Toluene	1	1.213794	5	0.7301744	20	0.7354661	50	0.7245406	100	0.641699	200	0.7045138
trans-1,3-Dichloropropene	1	0.4095874	5	0.4811332	20	0.4875692	50	0.4669199	100	0.4268994	200	0.4490678
Cyclohexane	1	0.9389156	5	0.6990602	20	0.7828333	50	0.7491572	100	0.6284627	200	0.6965655
Ethyl Methacrylate	1	0.3157117	5	0.3360216	20	0.3827846	50	0.3834794	100	0.3570451	200	0.3871145
1,1,2-Trichloroethane	1	0.2682045	5	0.2659574	20	0.2609426	50	0.2507748	100	0.2338615	200	0.2489071
Methyl acetate	1	0.5122284	5	0.4027401	20	0.3693948	50	0.347395	100	0.3720601	200	0.3768744
1,3-Dichloropropane	1	0.5983148	5	0.4665504	20	0.4852786	50	0.4700866	100	0.4333209	200	0.4651957
Methyl cyclohexane	1	1.272061	5	0.5427806	20	0.4772267	50	0.4707115	100	0.371828	200	0.4146175
Tetrachloroethene	1	0.3071702	5	0.246708	20	0.270259	50	0.2599184	100	0.2247491	200	0.2543184
2-Hexanone	5	0.2324927	25	0.2123559	100	0.2503656	250	0.2225606	500	0.2024069	1000	0.2200675
Dibromochloromethane	1	0.3881115	5	0.3962195	20	0.4025692	50	0.3884725	100	0.3659081	200	0.398959
1,2-Dibromoethane	1	0.3315746	5	0.275557	20	0.2980458	50	0.2886205	100	0.2713525	200	0.2906457
Chlorobenzene	1	1.02767	5	0.8135049	20	0.8255011	50	0.8330714	100	0.7239493	200	0.7815146
1,1,1,2-Tetrachloroethane	1	0.4023474	5	0.3362882	20	0.3409975	50	0.3522742	100	0.3220223	200	0.3569758
Ethylbenzene	1	0.4819058	5	0.3926862	20	0.4055748	50	0.4122258	100	0.3513936	200	0.3885462
m,p-Xylenes	2	0.5143636	10	0.4664253	40	0.4807103	100	0.5076596	200	0.4444669	400	0.4834702
o-Xylene	1	0.545764	5	0.4326682	20	0.50112	50	0.5089046	100	0.4403268	200	0.4825508
Styrene	1	0.7602787	5	0.6415775	20	0.7158014	50	0.8425024	100	0.7573465	200	0.8274724
Bromoform	1	0.269506	5	0.2604909	20	0.2738555	50	0.2695695	100	0.256001	200	0.2786908

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Isopropylbenzene	1	1.373968	5	1.169476	20	1.255356	50	1.253327	100	1.069551	200	1.201392
1,1,2,2-Tetrachloroethane	1	0.4385473	5	0.3358383	20	0.3783747	50	0.3578192	100	0.3293461	200	0.3473772
Bromobenzene	1	0.4412317	5	0.3765368	20	0.3820696	50	0.3987987	100	0.3427598	200	0.3825056
1,2,3-Trichloropropane	1	0.5299011	5	0.4898495	20	0.5079532	50	0.4629041	100	0.4358569	200	0.4612236
trans-1,4-Dichloro-2-butene	1	0.2130505	5	0.1411951	20	0.1763493	50	0.1635402	100	0.117545	200	0.1225791
n-Propyl Benzene	1	1.940395	5	1.555579	20	1.685233	50	1.735294	100	1.430368	200	1.553231
2-Chlorotoluene	1	2.273158	5	2.097578	20	2.14164	50	2.178653	100	1.908654	200	1.913803
1,3,5-Trimethylbenzene	1	2.208395	5	1.829836	20	1.834262	50	2.096912	100	1.798454	200	1.875385
4-Chlorotoluene	1	2.480669	5	1.931216	20	1.865274	50	1.885346	100	1.656612	200	1.685091
tert-Butylbenzene	1	1.988863	5	2.519022	20	1.91726	50	1.904601	100	1.710863	200	1.806978
Pentachloroethane	1	0.5498072	5	0.5261183	20	0.4932689	50	0.496207	100	0.4663091	200	0.475578
1,2,4-Trimethylbenzene	1	2.537468	5	1.86727	20	1.920734	50	2.172884	100	1.870243	200	1.907178
sec-Butylbenzene	1	3.241143	5	2.578971	20	2.711261	50	2.820075	100	2.394614	200	2.535414
1,3-Dichlorobenzene	1	1.492849	5	1.202064	20	1.209377	50	1.2517	100	1.077091	200	1.126173
4-Isopropyltoluene	1	2.625371	5	2.154598	20	2.178067	50	2.337737	100	1.942168	200	2.045655
1,4-Dichlorobenzene	1	1.423729	5	1.217318	20	1.176492	50	1.257858	100	1.055125	200	1.088513
n-Butyl Benzene	1	2.515079	5	1.999249	20	2.07939	50	2.199968	100	1.759479	200	1.815508
1,2-Dichlorobenzene	1	1.477673	5	1.175826	20	1.152013	50	1.2215	100	1.058935	200	1.080065
1,2-Dibromo-3-chloropropane	1	0.2186306	5	0.1465321	20	0.1587684	50	0.1512526	100	0.1498784	200	0.1548541
1,2,4-Trichlorobenzene	1	1.109381	5	0.8125927	20	0.8012363	50	0.8341314	100	0.6583723	200	0.7081636
Hexachlorobutadiene	1	0.6597987	5	0.5767928	20	0.5427552	50	0.563059	100	0.4523006	200	0.4979917
Naphthalene	1	1.882778	5	1.623233	20	1.673499	50	1.742592	100	1.590375	200	1.652478
1,2,3-Trichlorobenzene	1	1.023732	5	0.813752	20	0.7814402	50	0.8103079	100	0.665048	200	0.7179436
Diethyl ether	1	0.3504363	5	0.370181	20	0.3582752	50	0.3462924	100	0.3432901	200	0.3352392
Freon 113	1	0.3804608	5	0.2934952	20	0.3497771	50	0.3391199	100	0.2908962	200	0.3260201
Dibromofluoromethane	50	0.3926572	50	0.4047375	50	0.3987707	50	0.3979758	50	0.384539	50	0.4131627
Toluene-d8	50	1.141317	50	1.146058	50	1.128033	50	1.140181	50	1.131214	50	1.12356
4-Bromofluorobenzene	50	0.5296473	50	0.5394461	50	0.5502542	50	0.5378186	50	0.5236456	50	0.5503847
1,2-Dichloroethane-d4	50	0.8376814	50	0.8397788	50	0.8480367	50	0.8061783	50	0.7823759	50	0.7689737

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Dichlorodifluoromethane	1	0.7561648	5	0.7343715	20	0.6987302	50	0.7380279	100	0.6743112	200	0.7429894
Chloromethane	1	0.6590576	5	0.578194	20	0.5901831	50	0.6451408	100	0.6207464	200	0.6087486
Vinyl chloride	1	0.5457838	5	0.498538	20	0.4860148	50	0.4980084	100	0.4760319	200	0.4800166
Bromomethane	1	0.3363726	5	0.2800522	20	0.2612498	50	0.2767767	100	0.2451333	200	0.2929344
Chloroethane	1	0.520025	5	0.3070669	20	0.3028152	50	0.317178	100	0.2886022	200	0.3099702
Trichlorofluoromethane	1	0.7591826	5	0.8163725	20	0.7974263	50	0.7830831	100	0.7352564	200	0.8185689
Acrolein	5	4.438265E-02	25	0.0952953	100	5.799532E-02	250	0.066858	500	6.695181E-02	1000	6.154644E-02
1,1-Dichloroethene	1	0.481333	5	0.3952412	20	0.3631322	50	0.3874491	100	0.3808995	200	0.4122202
Acetone	5	0.2648948	25	0.1295074	100	0.1101459	250	0.1214757	500	0.1205169	1000	0.1210533
Iodomethane	5	0.1293542	25	0.2925139	100	0.4569737	250	0.5975683	500	0.5877188	1000	0.6811892
Carbon disulfide	5	1.385519	25	1.210738	100	1.088056	250	1.194893	500	1.080418	1000	1.159517
Acetonitrile	10	6.768408E-02	50	4.428099E-02	200	3.802814E-02	500	4.251942E-02	1000	0.0402186	2000	3.899805E-02
3-Chloropropene	1	0.2275177	5	0.3559277	20	0.4365301	50	0.5853226	100	0.5765123	200	0.6159562
Methylene Chloride	1	10.35879	5	0.5628084	20	0.4729651	50	0.4780068	100	0.46033	200	0.4745162
Acrylonitrile	5	0.1229522	25	0.2093788	100	0.1282093	250	0.1485953	500	0.1462192	1000	0.1354358
Methyl-tert-Butyl Ether	1	1.258191	5	1.265978	20	1.054782	50	1.241305	100	1.229621	200	1.233823
trans-1,2-Dichloroethene	1	0.563567	5	0.4412785	20	0.3859833	50	0.440876	100	0.4288671	200	0.4617435
1,1-Dichloroethane	1	0.8656665	5	0.8428606	20	0.7676249	50	0.8391172	100	0.8175144	200	0.8327662
Vinyl acetate	5	0.838636	25	0.7830791	100	0.769246	250	0.8626542	500	0.7902651	1000	0.7964697
Isopropyl Ether	1	1.666451	5	1.601519	20	1.363088	50	1.551799	100	1.498067	200	1.511663
Chloroprene	1	0.3373426	5	0.386675	20	0.3228649	50	0.3583829	100	0.3500683	200	0.3848108
2-Butanone	5	5.925591E-02	25	4.744904E-02	100	4.010082E-02	250	4.626124E-02	500	4.383061E-02	1000	4.061407E-02
cis-1,2-Dichloroethene	1	0.6359933	5	0.5194032	20	0.447319	50	0.4857224	100	0.4818267	200	0.4950523
2,2-Dichloropropane	1	0.6597043	5	0.6819693	20	0.6446678	50	0.7204343	100	0.6931376	200	0.7432641
Propionitrile	10	4.687231E-02	50	0.0448074	200	4.382879E-02	500	0.0490944	1000	0.048834	2000	4.562242E-02
Methacrylonitrile	10	0.2826242	50	0.275415	200	0.2532286	500	0.2869599	1000	0.2651061	2000	0.2611935
Bromochloromethane	1	0.2773107	5	0.2384177	20	0.2083613	50	0.2249126	100	0.2105031	200	0.206392
Chloroform	1	1.119051	5	0.9849206	20	0.8432278	50	0.9584315	100	0.9231089	200	0.9666204
1,1,1-Trichloroethane	1	0.8174901	5	0.8176885	20	0.7425006	50	0.8232707	100	0.7982149	200	0.8789107
1,1-Dichloropropene	1	0.7466804	5	0.6521074	20	0.579214	50	0.6396587	100	0.6086095	200	0.6958243
Isobutyl alcohol	20	4.581609E-02	100	3.922383E-02	400	3.637347E-02	1000	4.323778E-02	2000	4.359392E-02	4000	4.381299E-02

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Carbon Tetrachloride	1	~~0.6064209~~	5	~~0.5012159~~	20	~~0.441287~~	50	~~0.4902266~~	100	~~0.4680602~~	200	~~0.5445282~~
1,2-Dichloroethane	1	~~0.5290131~~	5	~~0.5079257~~	20	~~0.449071~~	50	~~0.4818779~~	100	~~0.4863852~~	200	~~0.511898~~
Benzene	1	~~1.218325~~	5	~~1.124518~~	20	~~0.9709888~~	50	~~1.03999~~	100	~~1.00909~~	200	~~1.052904~~
Trichloroethene	1	~~0.3712398~~	5	~~0.3084741~~	20	~~0.2799463~~	50	~~0.3007133~~	100	~~0.3075409~~	200	~~0.3362602~~
1,2-Dichloropropane	1	~~0.3276664~~	5	~~0.2912226~~	20	~~0.262504~~	50	~~0.277775~~	100	~~0.2705394~~	200	~~0.2846287~~
Methyl Methacrylate	1	~~0.2201035~~	5	~~0.1708661~~	20	~~0.1605452~~	50	~~0.1838239~~	100	~~0.1812072~~	200	~~0.1926998~~
1,4-Dioxane	20	~~3.282435E-03~~	100	~~3.117239E-03~~	400	~~2.423713E-03~~	1000	~~2.949368E-03~~	2000	~~2.903239E-03~~	4000	~~3.089242E-03~~
Dibromomethane	1	~~0.2338104~~	5	~~0.2111574~~	20	~~0.1816983~~	50	~~0.1958623~~	100	~~0.1995776~~	200	~~0.2038975~~
Bromodichloromethane	1	~~0.521294~~	5	~~0.543221~~	20	~~0.4701116~~	50	~~0.4900943~~	100	~~0.4912678~~	200	~~0.5202405~~
2-Chloroethyl Vinyl Ether	5	7.820131E-03	25	3.864213E-03	100	9.398318E-03	250	2.615421E-02	500	3.305348E-02	1000	3.271296E-02
cis-1,3-Dichloropropene	1	~~0.5069379~~	5	~~0.5170284~~	20	~~0.4513283~~	50	~~0.4878576~~	100	~~0.4877432~~	200	~~0.5041572~~
4-Methyl-2-pentanone	5	~~4.513168E-02~~	25	~~3.142462E-02~~	100	~~3.468373E-02~~	250	~~3.748337E-02~~	500	~~3.674752E-02~~	1000	~~0.0382343~~
Toluene	1	~~1.31285~~	5	~~0.761519~~	20	~~0.6519795~~	50	~~0.6838213~~	100	~~0.6292855~~	200	~~0.706844~~
trans-1,3-Dichloropropene	1	~~0.5304406~~	5	~~0.4587372~~	20	~~0.413764~~	50	~~0.4596025~~	100	~~0.4299462~~	200	~~0.4512226~~
Cyclohexane	1	~~0.8473444~~	5	~~0.7230297~~	20	~~0.6123012~~	50	~~0.6760057~~	100	~~0.6467593~~	200	~~0.7474929~~
Ethyl Methacrylate	1	~~0.4283471~~	5	~~0.3746705~~	20	~~0.3266588~~	50	~~0.3870442~~	100	~~0.361345~~	200	~~0.3822359~~
1,1,2-Trichloroethane	1	~~0.2675633~~	5	~~0.2754782~~	20	~~0.2355481~~	50	~~0.2505794~~	100	~~0.234757~~	200	~~0.2509866~~
Methyl acetate	1	~~0.4440421~~	5	~~0.3361632~~	20	~~0.3478651~~	50	~~0.3889799~~	100	~~0.4116703~~	200	~~0.4297428~~
1,3-Dichloropropane	1	~~0.5263692~~	5	~~0.465222~~	20	~~0.428301~~	50	~~0.4662121~~	100	~~0.4282268~~	200	~~0.4602526~~
Methyl cyclohexane	1	~~1.081544~~	5	~~0.569268~~	20	~~0.398406~~	50	~~0.4023374~~	100	~~0.3888306~~	200	~~0.4736978~~
Tetrachloroethene	1	~~0.3615139~~	5	~~0.3073632~~	20	~~0.2607763~~	50	~~0.2535263~~	100	~~0.2545328~~	200	~~0.2777735~~
2-Hexanone	5	~~0.2606342~~	25	~~0.2043271~~	100	~~0.2116717~~	250	~~0.2306339~~	500	~~0.2084632~~	1000	~~0.2184649~~
Dibromochloromethane	1	~~0.3615907~~	5	~~0.4135625~~	20	~~0.3491764~~	50	~~0.387613~~	100	~~0.3641602~~	200	~~0.3979691~~
1,2-Dibromoethane	1	~~0.3145002~~	5	~~0.2827883~~	20	~~0.2498174~~	50	~~0.2879142~~	100	~~0.2656007~~	200	~~0.2869246~~
Chlorobenzene	1	~~1.048052~~	5	~~0.8203034~~	20	~~0.7157946~~	50	~~0.7757255~~	100	~~0.7071022~~	200	~~0.7853936~~
1,1,1,2-Tetrachloroethane	1	~~0.373421~~	5	~~0.3438298~~	20	~~0.3097953~~	50	~~0.3491979~~	100	~~0.3158771~~	200	~~0.3508033~~
Ethylbenzene	1	~~0.4785872~~	5	~~0.4194241~~	20	~~0.377236~~	50	~~0.3808009~~	100	~~0.3546142~~	200	~~0.4044846~~
m,p-Xylenes	2	~~0.6132523~~	10	~~0.5104473~~	40	~~0.4431422~~	100	~~0.4754049~~	200	~~0.4430396~~	400	~~0.4970382~~
o-Xylene	1	~~0.5325148~~	5	~~0.4754798~~	20	~~0.4358025~~	50	~~0.478778~~	100	~~0.439737~~	200	~~0.5028647~~
Styrene	1	~~0.9019411~~	5	~~0.8154861~~	20	~~0.7583091~~	50	~~0.8336605~~	100	~~0.7612427~~	200	~~0.858335~~
Bromoform	1	~~0.3026699~~	5	~~0.2293602~~	20	~~0.2440337~~	50	~~0.2673024~~	100	~~0.2559235~~	200	~~0.2806833~~

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Isopropylbenzene	1	1.502672	5	1.20791	20	1.066149	50	1.160623	100	1.090863	200	1.245999
1,1,2,2-Tetrachloroethane	1	0.4530831	5	0.3498261	20	0.3316137	50	0.3626685	100	0.328562	200	0.3534035
Bromobenzene	1	0.4396396	5	0.3800268	20	0.3348682	50	0.375226	100	0.3420679	200	0.3868451
1,2,3-Trichloropropane	1	0.4892652	5	0.4531114	20	0.4267083	50	0.4757585	100	0.4488108	200	0.4647945
trans-1,4-Dichloro-2-butene	1	0.2060307	5	0.1289214	20	0.1109091	50	0.1304983	100	0.1229012	200	0.1663534
n-Propyl Benzene	1	2.136973	5	1.655783	20	1.454914	50	1.583868	100	1.45158	200	1.655757
2-Chlorotoluene	1	2.775347	5	2.282126	20	1.929227	50	2.023675	100	1.986118	200	2.009698
1,3,5-Trimethylbenzene	1	2.763515	5	2.176986	20	1.846556	50	1.920184	100	1.906784	200	1.992145
4-Chlorotoluene	1	2.39746	5	2.010357	20	1.742033	50	1.748497	100	1.713953	200	1.779315
tert-Butylbenzene	1	2.070463	5	1.854603	20	1.676451	50	1.766547	100	1.820496	200	1.835026
Pentachloroethane	1	0.5244222	5	0.4079306	20	0.3816476	50	0.442077	100	0.3965341	200	0.4533781
1,2,4-Trimethylbenzene	1	2.831082	5	2.332216	20	1.95239	50	2.051515	100	2.007596	200	2.061198
sec-Butylbenzene	1	3.761471	5	2.800619	20	2.4319	50	2.540803	100	2.52558	200	2.715793
1,3-Dichlorobenzene	1	1.676326	5	1.286174	20	1.070801	50	1.144666	100	1.105108	200	1.178746
4-Isopropyltoluene	1	2.764513	5	2.317922	20	2.018239	50	2.069721	100	2.056675	200	2.23028
1,4-Dichlorobenzene	1	1.598925	5	1.283155	20	1.087263	50	1.109918	100	1.104134	200	1.167596
n-Butyl Benzene	1	3.008407	5	2.231697	20	1.873132	50	1.931952	100	1.866079	200	2.03455
1,2-Dichlorobenzene	1	1.321247	5	1.274313	20	1.035586	50	1.12188	100	1.077248	200	1.129018
1,2-Dibromo-3-chloropropane	1	0.1428299	5	0.1487305	20	0.1317041	50	0.1570001	100	0.1535748	200	0.157
1,2,4-Trichlorobenzene	1	1.137507	5	0.8726673	20	0.6938847	50	0.734004	100	0.6952246	200	0.7841756
Hexachlorobutadiene	1	0.6916272	5	0.5774859	20	0.4753117	50	0.4791138	100	0.4798276	200	0.5545253
Naphthalene	1	2.187064	5	1.760984	20	1.530929	50	1.662089	100	1.661852	200	1.657306
1,2,3-Trichlorobenzene	1	1.092035	5	0.8486079	20	0.7153842	50	0.7415021	100	0.7159942	200	0.7752467
Diethyl ether	1	0.348767	5	0.3578897	20	0.3093432	50	0.3401947	100	0.3377389	200	0.3344723
Freon 113	1	0.4197922	5	0.3147477	20	0.2831753	50	0.3101947	100	0.2951206	200	0.3477355
Dibromofluoromethane	50	0.3951978	50	0.4041014	50	0.3994627	50	0.3947829	50	0.3696333	50	0.3938435
Toluene-d8	50	1.11626	50	1.145011	50	1.160167	50	1.121158	50	1.156479	50	1.145269
4-Bromofluorobenzene	50	0.5293206	50	0.5400904	50	0.5451	50	0.5431807	50	0.518618	50	0.5388125
1,2-Dichloroethane-d4	50	0.8125194	50	0.8522861	50	0.8449964	50	0.8028443	50	0.8436534	50	0.7594803

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dichlorodifluoromethane	0.7517491	8.578644	3.87	5.126947E-03			15.4	
Chloromethane	0.6417766	5.873684	4.351667	0.305839			SPCC (0.1)	
Vinyl chloride	0.5028963	4.486485	4.48	6.335764E-03			CCC (30)	
Bromomethane	0.3121078	25.48666	5.15	0.2134443	0.9972677		0.99	
Chloroethane	0.3369294	13.32658	5.416667	9.448674E-02			15.4	
Trichlorofluoromethane	0.8033912	6.982192	5.703333	0.1435127			15.4	
Acrolein	0.0706342	20.02933	7.32	1.664754E-02	0.9993031		0.99	
1,1-Dichloroethene	0.421845	11.12452	6.69	1.689563E-02			CCC (30)	
Acetone	0.1396402	30.21258	7.825	6.887011E-02	0.9990512		0.99	
Iodomethane	0.4789887	48.1648	6.995	0.476215	0.997432		0.99	
Carbon disulfide	1.229602	8.714827	6.766667	0.1516148			15.4	
Acetonitrile	4.724639E-02	33.26281	8.59	1.522408E-02	0.9995936		0.99	
3-Chloropropene	0.5209604	24.46379	7.568333	0.1293443	0.9999394		0.99	
Methylene Chloride	1.992289	181.3909	7.753333	0.1044874	0.9923685		0.99	
Acrylonitrile	0.1532805	27.18406	9.053334	0.0910347	0.9995367		0.99	
Methyl-tert-Butyl Ether	1.234335	2.832706	8.19	0.0209545			15.4	
trans-1,2-Dichloroethene	0.46593	4.172003	8.028333	9.317212E-02			15.4	
1,1-Dichloroethane	0.8536649	4.371496	8.978333	8.347073E-02			SPCC (0.1)	
Vinyl acetate	0.8022247	7.280124	9.31	0.0695885			15.4	
Isopropyl Ether	1.55409	2.951992	8.78	1.335599E-02			15.4	
Chloroprene	0.3497108	8.54758	8.961667	4.651208E-02			15.4	
2-Butanone	4.643951E-02	16.35713	10.46	5.900123E-02	0.9988163		0.99	
cis-1,2-Dichloroethene	0.5053634	3.686989	9.723333	5.539136E-02			15.4	
2,2-Dichloropropane	0.7197717	4.253402	9.89	0.1114694			15.4	
Propionitrile	4.734158E-02	5.519731	10.84667	9.363944E-02			15.4	
Methacrylonitrile	0.2734013	4.644562	10.87167	0.0391733			15.4	
Bromochloromethane	0.226253	5.808741	10	0			15.4	
Chloroform	0.9618526	4.263937	10.06833	3.745363E-02			CCC (30)	
1,1,1-Trichloroethane	0.8456996	3.910411	10.37	1.446304E-02			15.4	
1,1-Dichloropropene	0.6581	8.601409	10.525	5.391282E-02			15.4	
Isobutyl alcohol	4.309906E-02	5.112624	10.93	5.678904E-02			15.4	
Carbon Tetrachloride	0.5378325	15.13749	10.28333	8.153484E-02			15.4	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dichloroethane	0.5204377	10.91805	11.065	4.810634E-02			15.4	
Benzene	1.111925	8.972246	10.84333	7.314888E-02			15.4	
Trichloroethene	0.3223257	7.048303	11.51667	6.701461E-02			15.4	
1,2-Dichloropropane	0.2861449	4.696024	12.12667	6.611549E-02			CCC (30)	
Methyl Methacrylate	0.1853633	11.30907	12.28833	6.288658E-02			15.4	
1,4-Dioxane	3.011922E-03	12.44782	12.37	2.112263E-02			15.4	
Dibromomethane	0.2093882	7.702339	12.00833	4.034729E-02			15.4	
Bromodichloromethane	0.5116234	3.264739	12.16	1.867383E-02			15.4	
2-Chloroethyl Vinyl Ether	1.883389E-02	70.55294	12.74833	5.808955E-02	0.9952403		0.99	
cis-1,3-Dichloropropene	0.4991382	3.471024	12.86	1.119028E-02			15.4	
4-Methyl-2-pentanone	3.749188E-02	4.850934	13.49333	3.430956E-02			15.4	
Toluene	0.791698	26.47849	13.14	1.204917E-02			CCC (30)	
trans-1,3-Dichloropropene	0.4535295	6.80315	13.54333	0.0625312			15.4	
Cyclohexane	0.7491657	14.2501	10.02	0.0198293			15.4	
Ethyl Methacrylate	0.3603595	8.185078	13.65	7.973503E-02			15.4	
1,1,2-Trichloroethane	0.2547747	5.060844	13.73	1.994133E-02			15.4	
Methyl acetate	0.3967821	14.9357	8.023334	9.956008E-02			15.4	
1,3-Dichloropropane	0.4864578	11.79225	14.03	4.635216E-02			15.4	
Methyl cyclohexane	0.5915375	57.21462	11.52833	6.147789E-02	0.9948464		0.99	
Tetrachloroethene	0.2605205	10.55439	13.55833	3.077715E-02			15.4	
2-Hexanone	0.2233749	7.448994	14.36167	3.295865E-02			15.4	
Dibromochloromethane	0.39004	3.368745	13.94	1.728566E-02			15.4	
1,2-Dibromoethane	0.2926327	7.345497	14.22833	5.249237E-02			15.4	
Chlorobenzene	0.8342019	12.32639	14.76	9.891013E-03			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.3518176	7.862743	14.79667	6.779203E-02			15.4	
Ethylbenzene	0.4053887	10.61693	14.74333	0.0552889			CCC (30)	
m,p-Xylenes	0.4828493	5.366062	14.88333	5.317124E-02			15.4	
o-Xylene	0.4852224	8.870818	15.33333	5.262207E-02			15.4	
Styrene	0.7574965	9.755826	15.385	3.588729E-02			15.4	
Bromoform	0.2680189	3.137982	15.455	3.571724E-02			SPCC (0.1)	
Isopropylbenzene	1.220512	8.323279	15.63	9.762248E-03			15.4	
1,1,2,2-Tetrachloroethane	0.3645505	11.02073	16.065	3.872753E-02			SPCC (0.3)	

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0704002
Instrument: JVGCMS1
Matrix: Soil
Calibration Date: 03/19/07 10:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Bromobenzene	0.387317	8.318949	16.05	1.082973E-02			15.4	
1,2,3-Trichloropropane	0.4812814	7.168852	16.22	7.339563E-03			15.4	
trans-1,4-Dichloro-2-butene	0.1557099	23.22694	16.22333	4.977441E-02	0.9905853		0.99	
n-Propyl Benzene	1.650017	10.81984	16.01	1.989184E-02			15.4	
2-Chlorotoluene	2.085581	7.045146	16.18833	0.0280853			15.4	
1,3,5-Trimethylbenzene	1.940541	8.750808	16.17	2.352091E-03			15.4	
4-Chlorotoluene	1.917368	15.52752	16.33333	2.470015E-02	0.9989303		0.99	
tert-Butylbenzene	1.974598	14.3677	16.47167	4.461374E-02			15.4	
Pentachloroethane	0.5012147	6.274606	16.52333	2.727608E-02			15.4	
1,2,4-Trimethylbenzene	2.045963	13.03165	16.52833	4.600435E-02			15.4	
sec-Butylbenzene	2.71358	10.94776	16.63333	6.367426E-02			15.4	
1,3-Dichlorobenzene	1.226542	11.80671	16.88	2.511571E-02			15.4	
4-Isopropyltoluene	2.213933	10.90777	16.74167	2.952199E-02			15.4	
1,4-Dichlorobenzene	1.203173	11.00195	16.96	6.189228E-02			15.4	
n-Butyl Benzene	2.061446	13.3878	17.145	3.292236E-02			15.4	
1,2-Dichlorobenzene	1.194335	12.6728	17.37333	4.325183E-02			15.4	
1,2-Dibromo-3-chloropropane	0.1633194	16.79031	18.16667	2.220747E-02	0.9996831		0.99	
1,2,4-Trichlorobenzene	0.8206462	19.1104	18.88833	9.28556E-03	0.9957746		0.99	
Hexachlorobutadiene	0.548783	12.94613	18.8	4.552213E-03			15.4	
Naphthalene	1.694159	6.240566	19.28833	1.146329E-02			15.4	
1,2,3-Trichlorobenzene	0.8020373	15.33304	19.51	9.276808E-03			15.4	
Diethyl ether	0.350619	3.493773	6.303333	0.164594			15.4	
Freon 113	0.3299616	10.409	6.776667	0.1201808			15.4	
Dibromofluoromethane	0.3986405	2.465955	10.30333	7.949547E-02			15.4	
Toluene-d8	1.13506	0.770914	13.07333	3.752216E-02			15.4	
4-Bromofluorobenzene	0.5385328	1.999586	15.925	3.135738E-02			15.4	
1,2-Dichloroethane-d4	0.8138374	4.06503	10.98167	3.404273E-02			15.4	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00467	Instrument:	JVGCMS1
Matrix:	Soil	Calibration:	0704002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00467-TUN1	7CP001.D	03/21/07 11:54
Calibration Check	BA00467-CCV1	7CP002.D	03/21/07 12:27
Blank	7C22012-BLK1	7CP006.D	03/21/07 14:41
LCS	7C22012-BS1	7CP007.D	03/21/07 15:28
JAX47-SB118-03-03 07	7C22012-MS1	7CP008.D	03/21/07 16:29
JAX47-SB118-03-03 07	7C22012-MSD1	7CP009.D	03/21/07 17:02
JAX47-SB118-03-03 07	B702385-02	7CP011.D	03/21/07 18:08
JAX47-SB118-01-03 07	B702385-01	7CP012.D	03/21/07 18:42

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C22012 Batch Matrix: Soil Preparation: EPA 5035_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C22012-BLK1	7CP006.D	03/21/07 09:00	
LCS	7C22012-BS1	7CP007.D	03/21/07 09:00	
JAX47-SB118-03-03 07	7C22012-MS1	7CP008.D	03/21/07 09:00	
JAX47-SB118-03-03 07	7C22012-MSD1	7CP009.D	03/21/07 09:00	
JAX47-SB118-01-03 07	B702385-01	7CP012.D	03/21/07 09:00	
JAX47-SB118-03-03 07	B702385-02	7CP011.D	03/21/07 09:00	USE as your MS/MSD

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	7CP001.D	Injection Date:	03/21/07
Instrument ID:	JVGCMS1	Injection Time:	11:54
Sequence:	BA00467	Lab Sample ID:	BA00467-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.1	PASS
75	30 - 60% of 95	58.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.1	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	88.6	PASS
175	5 - 9% of 174	7.44	PASS
176	95 - 101% of 174	98.5	PASS
177	5 - 9% of 176	6.31	PASS

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0704002
Lab File ID:	7CP002.D	Calibration Date:	03/19/07 10:43
Sequence:	BA00467	Injection Date:	03/21/07
Lab Sample ID:	BA00467-CCV1	Injection Time:	12:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	50.0	57.0	0.7517491	0.857148		14.0	
Chloromethane	A	50.0	52.0	0.6417766	0.667057	0.1	3.9	
Vinyl chloride	A	50.0	54.2	0.5028963	0.545236		8.4	20
Bromomethane	L	50.0	43.0	0.3121078	0.245995		-14.1	20
Chloroethane	A	50.0	48.0	0.3369294	0.323471		-4.0	
Trichlorofluoromethane	A	50.0	60.5	0.8033912	0.972623		21.1	
1,1-Dichloroethene	A	50.0	53.4	0.421845	0.450244		6.7	20
Acetone	L	250	301	0.1396402	0.142414		20.5	
Carbon disulfide	A	250	286	1.229602	1.40418		14.2	
Methylene Chloride	L	50.0	50.7	1.992289	0.522078		1.4	
trans-1,2-Dichloroethene	A	50.0	52.9	0.46593	0.49323		5.9	
1,1-Dichloroethane	A	50.0	56.5	0.8536649	0.964977	0.1	13.0	20
2-Butanone	L	250	239	4.643951E-02	0.0414423		-4.5	
cis-1,2-Dichloroethene	A	50.0	51.5	0.5053634	0.520389		3.0	
Chloroform	A	50.0	57.9	0.9618526	1.11381		15.8	20
1,1,1-Trichloroethane	A	50.0	58.9	0.8456996	0.996844		17.9	20
Carbon Tetrachloride	A	50.0	59.4	0.5378325	0.639153		18.8	20
1,2-Dichloroethane	A	50.0	60.0	0.5204377	0.624236		19.9	20
Benzene	A	50.0	54.1	1.111925	1.20269		8.2	20
Trichloroethene	A	50.0	56.5	0.3223257	0.364433		13.1	20
1,2-Dichloropropane	A	50.0	52.9	0.2861449	0.302796		5.8	
Bromodichloromethane	A	50.0	59.0	0.5116234	0.603258		17.9	20
cis-1,3-Dichloropropene	A	50.0	57.6	0.4991382	0.57495		15.2	20
4-Methyl-2-pentanone	A	250	283	3.749188E-02	0.0424953		13.3	
Toluene	A	50.0	46.2	0.791698	0.732273		-7.5	20
trans-1,3-Dichloropropene	A	50.0	56.2	0.4535295	0.510047		12.5	20
1,1,2-Trichloroethane	A	50.0	48.3	0.2547747	0.245922		-3.5	20
Tetrachloroethene	A	50.0	58.6	0.2605205	0.305329		17.2	20
2-Hexanone	A	250	285	0.2233749	0.254745		14.0	

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JVGCMS1	Calibration:	0704002
Lab File ID:	7CP002.D	Calibration Date:	03/19/07 10:43
Sequence:	BA00467	Injection Date:	03/21/07
Lab Sample ID:	BA00467-CCV1	Injection Time:	12:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibromochloromethane	A	50.0	53.1	0.39004	0.41435		6.2	20
1,2-Dibromoethane	A	50.0	50.2	0.2926327	0.293875		0.4	
Chlorobenzene	A	50.0	49.3	0.8342019	0.822746	0.3	-1.4	20
Ethylbenzene	A	50.0	52.8	0.4053887	0.428338		5.7	20
m,p-Xylenes	A	100	112	0.4828493	0.540568		12.0	20
o-Xylene	A	50.0	54.0	0.4852224	0.52381		8.0	20
Styrene	A	50.0	58.8	0.7574965	0.890203		17.5	20
Bromoform	A	50.0	53.0	0.2680189	0.284016	0.1	6.0	20
Isopropylbenzene	A	50.0	55.4	1.220512	1.35298		10.9	20
1,1,2,2-Tetrachloroethane	A	50.0	49.1	0.3645505	0.357719	0.3	-1.9	20
1,3-Dichlorobenzene	A	50.0	56.8	1.226542	1.39287		13.6	20
1,4-Dichlorobenzene	A	50.0	56.2	1.203173	1.35107		12.3	20
1,2-Dichlorobenzene	A	50.0	52.8	1.194335	1.26172		5.6	20
1,2-Dibromo-3-chloropropane	L	50.0	49.4	0.1633194	0.151199		-1.2	20
1,2,4-Trichlorobenzene	L	50.0	72.8	0.8206462	1.04152		45.5	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00467	Instrument:	JVGCMS1
Matrix:	Soil	Calibration:	0704002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (7C22012-BLK1)			Lab File ID: 7CP006.D			Analyzed: 03/21/07 14:41			
Pentafluorobenzene	322515	10.89	361906	10.88	89	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	469035	11.54	527597	11.53	89	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	465713	14.73	545160	14.73	85	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	260083	16.95	301643	16.94	86	50 - 200	0.0100	+/-0.50	
JAX47-SB118-03-03 07 (B702385-02)			Lab File ID: 7CP011.D			Analyzed: 03/21/07 18:08			
Pentafluorobenzene	312226	10.9	361906	10.88	86	50 - 200	0.0200	+/-0.50	
1,4-Difluorobenzene	480459	11.55	527597	11.53	91	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	482357	14.74	545160	14.73	88	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	271463	16.95	301643	16.94	90	50 - 200	0.0100	+/-0.50	
JAX47-SB118-01-03 07 (B702385-01)			Lab File ID: 7CP012.D			Analyzed: 03/21/07 18:42			
Pentafluorobenzene	289436	10.89	361906	10.88	80	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	451997	11.55	527597	11.53	86	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	446189	14.73	545160	14.73	82	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	242570	16.95	301643	16.94	80	50 - 200	0.0100	+/-0.50	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C22012	Laboratory ID:	7C22012-MS1
Preparation:	EPA 5035_MS	Initial/Final:	5 g / 5 mL

Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	ND	19.8	99	35 - 135
Chloromethane	20.0	ND	17.1	86	50 - 130
Vinyl chloride	20.0	ND	19.4	97	60 - 125
Bromomethane	20.0	ND	13.8	69	30 - 160
Chloroethane	20.0	ND	17.6	88	40 - 155
Trichlorofluoromethane	20.0	ND	23.7	118	25 - 185
1,1-Dichloroethene	20.0	ND	16.9	84	65 - 135
Acetone	50.0	37.3	98.6	123	20 - 160
Carbon disulfide	20.0	ND	22.4	112	45 - 160
Methylene Chloride	20.0	4.38	16.2	59	55 - 140
trans-1,2-Dichloroethene	20.0	ND	16.3	82	65 - 135
1,1-Dichloroethane	20.0	ND	18.9	94	75 - 125
2-Butanone	50.0	ND	32.2	64	30 - 160
cis-1,2-Dichloroethene	20.0	ND	14.1	70	65 - 125
Chloroform	20.0	ND	17.7	89	70 - 125
1,1,1-Trichloroethane	20.0	ND	20.6	103	70 - 135
Carbon Tetrachloride	20.0	ND	20.3	102	65 - 135
1,2-Dichloroethane	20.0	ND	16.8	84	70 - 125
Benzene	20.0	ND	16.8	84	75 - 125
Trichloroethene	20.0	ND	17.1	85	75 - 125
1,2-Dichloropropane	20.0	ND	14.8	74	70 - 120
Bromodichloromethane	20.0	ND	15.6	78	70 - 130
cis-1,3-Dichloropropene	20.0	ND	15.6	78	70 - 125
4-Methyl-2-pentanone	50.0	ND	29.1	58	45 - 145
Toluene	20.0	ND	14.3	71	55 - 124
trans-1,3-Dichloropropene	20.0	ND	17.2	86	70 - 125
1,1,2-Trichloroethane	20.0	ND	12.6	63	60 - 125
Tetrachloroethene	20.0	ND	19.7	98	65 - 140
2-Hexanone	50.0	ND	30.8	62	45 - 145
Dibromochloromethane	20.0	ND	14.3	72	65 - 130
1,2-Dibromoethane	20.0	ND	12.9	65 *	70 - 125
Chlorobenzene	20.0	ND	15.1	76	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

JAX47-SB118-03-03 07

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 7C22012
Laboratory ID: 7C22012-MS1
Preparation: EPA 5035_MS
Initial/Final: 5 g / 5 mL
Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Ethylbenzene	20.0	ND	15.8	79	75 - 125
m,p-Xylenes	40.0	ND	34.0	85	80 - 125
o-Xylene	20.0	ND	15.7	78	75 - 125
Styrene	20.0	ND	16.2	81	75 - 125
Bromoform	20.0	ND	13.3	66	55 - 135
Isopropylbenzene	20.0	ND	18.8	94	75 - 130
1,1,2,2-Tetrachloroethane	20.0	ND	12.5	63	55 - 130
1,3-Dichlorobenzene	20.0	ND	15.6	78	70 - 125
1,4-Dichlorobenzene	20.0	ND	16.4	82	70 - 125
1,2-Dichlorobenzene	20.0	ND	14.1	70 *	75 - 120
1,2-Dibromo-3-chloropropane	20.0	ND	10.8	54	40 - 135
1,2,4-Trichlorobenzene	20.0	-1.63	15.8	87	65 - 130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20.0	25.6	128	26	30	35 - 135
Chloromethane	20.0	20.5	103	18	30	50 - 130
Vinyl chloride	20.0	24.2	121	22	30	60 - 125
Bromomethane	20.0	16.1	81	15	30	30 - 160
Chloroethane	20.0	20.4	102	15	30	40 - 155
Trichlorofluoromethane	20.0	29.0	145	20	30	25 - 185
1,1-Dichloroethene	20.0	19.8	99	16	30	65 - 135
Acetone	50.0	98.2	122	0.4	30	20 - 160
Carbon disulfide	20.0	28.4	142	24	30	45 - 160
Methylene Chloride	20.0	22.4	90	32 *	30	55 - 140
trans-1,2-Dichloroethene	20.0	20.3	101	22	30	65 - 135
1,1-Dichloroethane	20.0	21.9	110	15	30	75 - 125
2-Butanone	50.0	39.0	78	19	30	30 - 160
cis-1,2-Dichloroethene	20.0	17.5	88	22	30	65 - 125
Chloroform	20.0	20.8	104	16	30	70 - 125
1,1,1-Trichloroethane	20.0	24.6	123	17	30	70 - 135
Carbon Tetrachloride	20.0	23.7	119	15	30	65 - 135

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

JAX47-SB118-03-03 07

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 7C22012
Laboratory ID: 7C22012-MSD1
Preparation: EPA 5035_MS
Initial/Final: 5 g / 5 mL
Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichloroethane	20.0	20.9	105	22	30	70 - 125
Benzene	20.0	20.2	101	19	30	75 - 125
Trichloroethene	20.0	20.4	102	18	30	75 - 125
1,2-Dichloropropane	20.0	19.3	96	26	30	70 - 120
Bromodichloromethane	20.0	19.1	96	20	30	70 - 130
cis-1,3-Dichloropropene	20.0	18.9	94	19	30	70 - 125
4-Methyl-2-pentanone	50.0	35.9	72	21	30	45 - 145
Toluene	20.0	16.8	84	17	30	55 - 124
trans-1,3-Dichloropropene	20.0	19.1	95	10	30	70 - 125
1,1,2-Trichloroethane	20.0	15.4	77	20	30	60 - 125
Tetrachloroethene	20.0	21.6	108	10	30	65 - 140
2-Hexanone	50.0	37.0	74	18	30	45 - 145
Dibromochloromethane	20.0	16.0	80	11	30	65 - 130
1,2-Dibromoethane	20.0	15.7	78	19	30	70 - 125
Chlorobenzene	20.0	17.5	88	15	30	75 - 125
Ethylbenzene	20.0	19.0	95	19	30	75 - 125
m,p-Xylenes	40.0	40.8	102	18	30	80 - 125
o-Xylene	20.0	19.0	95	19	30	75 - 125
Styrene	20.0	19.2	96	17	30	75 - 125
Bromoform	20.0	15.5	77	15	30	55 - 135
Isopropylbenzene	20.0	21.6	108	14	30	75 - 130
1,1,2,2-Tetrachloroethane	20.0	15.1	75	18	30	55 - 130
1,3-Dichlorobenzene	20.0	18.5	92	17	30	70 - 125
1,4-Dichlorobenzene	20.0	18.6	93	13	30	70 - 125
1,2-Dichlorobenzene	20.0	16.4	82	15	30	75 - 120
1,2-Dibromo-3-chloropropane	20.0	14.1	70	26	30	40 - 135
1,2,4-Trichlorobenzene	20.0	18.2	99	14	30	65 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00467	Instrument:	JVGCMS1
Matrix:	Soil	Calibration:	0704002

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (7C22012-BLK1)			Lab File ID: 7CP006.D		Analyzed: 03/21/07 14:41			
Toluene-d8	50.0	105	85 - 115	13.08	13.07333	0.0067	+/-0.5	
4-Bromofluorobenzene	50.0	108	85 - 120	15.92	15.925	-0.0050	+/-0.5	
JAX47-SB118-03-03 07 (B702385-02)			Lab File ID: 7CP011.D		Analyzed: 03/21/07 18:08			
Toluene-d8	50.0	103	85 - 115	13.08	13.07333	0.0067	+/-0.5	
4-Bromofluorobenzene	50.0	105	85 - 120	15.93	15.925	0.0050	+/-0.5	
JAX47-SB118-01-03 07 (B702385-01)			Lab File ID: 7CP012.D		Analyzed: 03/21/07 18:42			
Toluene-d8	50.0	101	85 - 115	13.08	13.07333	0.0067	+/-0.5	
4-Bromofluorobenzene	50.0	108	85 - 120	15.93	15.925	0.0050	+/-0.5	

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C22012	Laboratory ID:	7C22012-BS1
Preparation:	EPA 5035_MS	Initial/Final:	5 g / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane	20.0	20.4	102	35 - 135
Chloromethane	20.0	15.7	79	50 - 130
Vinyl chloride	20.0	20.2	101	60 - 125
Bromomethane	20.0	12.7	64	30 - 160
Chloroethane	20.0	17.7	89	40 - 155
Trichlorofluoromethane	20.0	24.6	123	25 - 185
1,1-Dichloroethene	20.0	17.4	87	65 - 135
Acetone	50.0	69.0	138	20 - 160
Carbon disulfide	20.0	24.1	121	45 - 160
Methylene Chloride	20.0	20.5	102	55 - 140
trans-1,2-Dichloroethene	20.0	17.5	88	65 - 135
1,1-Dichloroethane	20.0	19.4	97	75 - 125
2-Butanone	50.0	47.4	95	30 - 160
cis-1,2-Dichloroethene	20.0	16.5	82	65 - 125
Chloroform	20.0	20.2	101	70 - 125
1,1,1-Trichloroethane	20.0	20.5	102	70 - 135
Carbon Tetrachloride	20.0	20.7	103	65 - 135
1,2-Dichloroethane	20.0	21.2	106	70 - 135
Benzene	20.0	17.5	87	75 - 125
Trichloroethene	20.0	18.2	91	75 - 125
1,2-Dichloropropane	20.0	18.0	90	70 - 120
Bromodichloromethane	20.0	19.3	97	70 - 130
cis-1,3-Dichloropropene	20.0	18.7	93	70 - 125
4-Methyl-2-pentanone	50.0	43.6	87	45 - 145
Toluene	20.0	14.7	74	72 - 124
trans-1,3-Dichloropropene	20.0	21.2	106	70 - 125
1,1,2-Trichloroethane	20.0	16.9	84	60 - 125
Tetrachloroethene	20.0	19.9	100	65 - 140
2-Hexanone	50.0	46.3	93	45 - 145
Dibromochloromethane	20.0	17.7	89	65 - 130

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C22012	Laboratory ID:	7C22012-BS1
Preparation:	EPA 5035_MS	Initial/Final:	5 g / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,2-Dibromoethane	20.0	17.4	87	70 - 125
Chlorobenzene	20.0	16.7	83	75 - 125
Ethylbenzene	20.0	17.7	89	75 - 125
m,p-Xylenes	40.0	35.8	89	80 - 125
o-Xylene	20.0	17.1	85	75 - 125
Styrene	20.0	18.3	91	75 - 125
Bromoform	20.0	18.5	93	55 - 135
Isopropylbenzene	20.0	19.6	98	75 - 130
1,1,2,2-Tetrachloroethane	20.0	17.4	87	55 - 130
1,3-Dichlorobenzene	20.0	18.1	91	70 - 125
1,4-Dichlorobenzene	20.0	18.1	90	70 - 125
1,2-Dichlorobenzene	20.0	16.6	83	75 - 120
1,2-Dibromo-3-chloropropane	20.0	16.6	83	40 - 135
1,2,4-Trichlorobenzene	20.0	20.4	102	65 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ENCO Jacksonville
SDG: BR006-021
CLASS: SVOA
METHOD: EPA 8270C

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270C

Laboratory: ENCO Jacksonville

SDG: BR006-021

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB118-01-03 07	B702385-01
JAX47-SB118-03-03 07	B702385-02

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US Date: 2007.04.11 18:55:44 -04'00'

Name: Christina Tompkins

Date: 4/6/07

Title: Project Manager

PREPARATION BATCH SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C19021 Batch Matrix: Soil Preparation: EPA 3545_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C19021-BLK1	5CP025.D	03/19/07 15:43	
LCS	7C19021-BS1	5CP026.D	03/19/07 15:43	
JAX47-SB118-03-03 07	7C19021-MS1	5CP027.D	03/19/07 15:43	
JAX47-SB118-03-03 07	7C19021-MSD1	5CP028.D	03/19/07 15:43	
JAX47-SB118-01-03 07	B702385-01	5CP031.D	03/19/07 15:43	
JAX47-SB118-03-03 07	B702385-02	5CP032.D	03/19/07 15:43	USE as your MS/MSD

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00466	Instrument:	JSVGCMS1
Matrix:	Soil	Calibration:	0703009

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00466-TUN1	5CP022.D	03/21/07 23:00
Calibration Check	BA00466-CCV1	5CP023.D	03/21/07 23:18
Calibration Check	BA00466-CCV2	5CP024.D	03/22/07 09:01
Blank	7C19021-BLK1	5CP025.D	03/22/07 09:25
LCS	7C19021-BS1	5CP026.D	03/22/07 09:50
JAX47-SB118-03-03 07	7C19021-MS1	5CP027.D	03/22/07 10:15
JAX47-SB118-03-03 07	7C19021-MSD1	5CP028.D	03/22/07 10:38
MS Tune	BA00466-TUN2	5CP029.D	03/22/07 12:43
Calibration Check	BA00466-CCV3	5CP030.D	03/22/07 13:00
JAX47-SB118-01-03 07	B702385-01	5CP031.D	03/22/07 13:25
JAX47-SB118-03-03 07	B702385-02	5CP032.D	03/22/07 13:50

HOLDING TIME SUMMARY
EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
JAX47-SB118-01-03 07	03/13/07 11:09	03/13/07 13:12	03/19/07 15:43	6.00	14.00	03/22/07 13:25	3.00	40.00	
JAX47-SB118-03-03 07	03/13/07 11:25	03/13/07 13:12	03/19/07 15:43	6.00	14.00	03/22/07 13:50	3.00	40.00	

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-021	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	7C19021-BLK1	File ID:	5CP025.D
Prepared:	03/19/07 15:43	Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL
Analyzed:	03/22/07 09:25	Instrument:	JSVGCMS1		
Batch:	7C19021	Sequence:	BA00466	Calibration:	0703009

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
108-95-2	Phenol	0.125	U
111-44-4	Bis(2-chloroethyl)ether	0.099	U
95-57-8	2-Chlorophenol	0.112	U
95-48-7	2-Methylphenol	0.119	U
39638-32-9	Bis(2-chloroisopropyl)ether	0.102	U
106-44-5	3 & 4-Methylphenol	0.125	U
621-64-7	N-Nitroso-di-n-propylamine	0.086	U
67-72-1	Hexachloroethane	0.099	U
98-95-3	Nitrobenzene	0.119	U
78-59-1	Isophorone	0.063	U
88-75-5	2-Nitrophenol	0.109	U
105-67-9	2,4-Dimethylphenol	0.116	U
111-91-1	Bis(2-chloroethoxy)methane	0.102	U
120-83-2	2,4-Dichlorophenol	0.125	U
91-20-3	Naphthalene	0.135	U
106-47-8	4-Chloroaniline	0.099	U
87-68-3	Hexachlorobutadiene	0.125	U
91-57-6	2-Methylnaphthalene	0.129	U
77-47-4	Hexachlorocyclopentadiene	0.066	U
88-06-2	2,4,6-Trichlorophenol	0.125	U
95-95-4	2,4,5-Trichlorophenol	0.145	U
91-58-7	2-Chloronaphthalene	0.125	U
88-74-4	2-Nitroaniline	0.116	U
131-11-3	Dimethylphthalate	0.112	U
606-20-2	2,6-Dinitrotoluene	0.139	U
208-96-8	Acenaphthylene	0.112	U
99-09-2	3-Nitroaniline	0.119	U
83-32-9	Acenaphthene	0.116	U
51-28-5	2,4-Dinitrophenol	0.241	U
100-02-7	4-Nitrophenol	0.148	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville		SDG:	BR006-021	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	7C19021-BLK1	File ID:	5CP025.D
Prepared:	03/19/07 15:43	Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL
Analyzed:	03/22/07 09:25	Instrument:	JSVGCMS1		
Batch:	7C19021	Sequence:	BA00466	Calibration:	0703009

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
132-64-9	Dibenzofuran	0.135	U
121-14-2	2,4-Dinitrotoluene	0.139	U
84-66-2	Diethylphthalate	0.122	U
7005-72-3	4-Chlorophenyl-phenylether	0.139	U
86-73-7	Fluorene	0.135	U
100-01-6	4-Nitroaniline	0.139	U
534-52-1	2-Methyl-4,6-dinitrophenol	0.109	U
86-30-6	N-Nitrosodiphenylamine	0.148	U
101-55-3	4-Bromophenyl-phenylether	0.129	U
118-74-1	Hexachlorobenzene	0.125	U
87-86-5	Pentachlorophenol	0.188	U
85-01-8	Phenanthrene	0.139	U
120-12-7	Anthracene	0.145	U
86-74-8	Carbazole	0.148	U
84-74-2	Di-n-butylphthalate	0.145	U
206-44-0	Fluoranthene	0.139	U
129-00-0	Pyrene	0.145	U
92-52-4	1,1'-Biphenyl	0.104	U
1912-24-9	Atrazine	0.042	U
85-68-7	Butylbenzylphthalate	0.125	U
100-52-7	Benzaldehyde	0.104	U
91-94-1	3,3'-Dichlorobenzidine	0.107	U
105-60-2	Caprolactam	0.051	U
56-55-3	Benzo(a)anthracene	0.155	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.201	U
218-01-9	Chrysene	0.135	U
117-84-0	Di-n-octylphthalate	0.165	U
205-99-2	Benzo(b)fluoranthene	0.109	U
207-08-9	Benzo(k)fluoranthene	0.132	U
50-32-8	Benzo(a)pyrene	0.116	U

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	7C19021-BLK1	File ID:	5CP025.D
Prepared:	03/19/07 15:43	Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL
Analyzed:	03/22/07 09:25	Instrument:	JSVGCMS1		
Batch:	7C19021	Sequence:	BA00466	Calibration:	0703009

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
193-39-5	Indeno(1,2,3-cd)pyrene	0.188	U
53-70-3	Dibenzo(a,h)anthracene	0.191	U
191-24-2	Benzo(g,h,i)perylene	0.138	U
98-86-2	Acetophenone	0.066	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	3.33	3.23	97	35 - 105	
Phenol-d5	3.33	3.21	96	40 - 100	
Nitrobenzene-d5	1.67	1.43	86	35 - 100	
2-Fluorobiphenyl	1.67	1.40	84	45 - 105	
2,4,6-Tribromophenol	3.33	2.60	78	35 - 125	
Terphenyl-d14	1.67	1.61	97	30 - 125	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	294443	4.86	430062	4.86	
Naphthalene-d8	1077484	6.06	1820701	6.06	
Acenaphthene-d10	734131	7.79	1214572	7.79	
Phenanthrene-d10	1304927	9.28	2126738	9.28	
Chrysene-d12	1735521	11.93	2452172	11.93	
Perylene-d12	1644177	13.34	2587438	13.34	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5CP022.D	Injection Date:	03/21/07
Instrument ID:	JSVGCMS1	Injection Time:	23:00
Sequence:	BA00466	Lab Sample ID:	BA00466-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	45.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 101% of 198	44.8	PASS
70	Less than 2% of 69	0	PASS
127	40 - 60% of 198	43.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.73	PASS
275	10 - 30% of 198	26.3	PASS
365	1 - 100% of 198	4.92	PASS
443	17 - 23% of 442	22.6	PASS
441	0.01 - 100% of 443	79.4	PASS
442	40 - 100% of 198	41.3	PASS

INITIAL CALIBRATION STANDARDS

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00463	Instrument:	JSVGCMS1
Calibration:	0703009		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B7C0178	8270 Curve - 10ppm curve std	BA00463-CAL1	5CP006.D	03/21/07 13:17
B7C0177	8270 Curve - 20ppm curve std	BA00463-CAL2	5CP007.D	03/21/07 13:41
B7C0176	8270 Curve - 40ppm curve std	BA00463-CAL3	5CP008.D	03/21/07 14:05
B7C0175	8270 Curve - 60ppm curve std	BA00463-CAL4	5CP009.D	03/21/07 14:30
B7C0174	8270 Curve - 80ppm curve std	BA00463-CAL5	5CP010.D	03/21/07 14:55
B7C0173	8270 Curve - 100ppm curve std	BA00463-CAL6	5CP011.D	03/21/07 15:19
B7B0071	8270 - 10ug/mL Basic Extractables	BA00463-CAL7	5CP014.D	03/21/07 17:43
B7B0070	8270 - 20ug/mL Basic Extractables	BA00463-CAL8	5CP015.D	03/21/07 18:07
B7B0069	8270 - 40ug/mL Basic Extractables	BA00463-CAL9	5CP016.D	03/21/07 18:32
B7B0068	8270 - 60ug/mL Basic Extractables	BA00463-CALA	5CP017.D	03/21/07 18:56
B7B0067	8270 - 80ug/mL Basic Extractables	BA00463-CALB	5CP018.D	03/21/07 19:20
B7B0066	8270 - 100ug/mL Basic Extractables	BA00463-CALC	5CP019.D	03/21/07 19:45

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Soil
Calibration Date: 03/21/07 15:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-Nitrosodimethylamine	10	0.3737505	20	0.3711452	40	0.4141041	60	0.4205518	80	0.4121152	100	0.4472033
Pyridine	10	0.6866761	20	0.7496898	40	0.7983604	60	0.8032065	80	0.8261749	100	0.7925621
Phenol	10	1.07991	20	1.123844	40	1.244981	60	1.250059	80	1.343046	100	1.42716
Bis(2-chloroethyl)ether	10	0.8348354	20	0.8609598	40	0.8928058	60	0.8635907	80	0.8971235	100	0.9246551
2-Chlorophenol	10	1.028325	20	1.044106	40	1.162709	60	1.170567	80	1.260379	100	1.32941
1,3-Dichlorobenzene	10	1.273218	20	1.273826	40	1.420006	60	1.437244	80	1.538929	100	1.626435
1,4-Dichlorobenzene	10	1.305042	20	1.328288	40	1.480652	60	1.495835	80	1.590831	100	1.707369
Benzyl alcohol	10	0.4991111	20	0.533515	40	0.60029	60	0.5961537	80	0.6310833	100	0.6597397
1,2-Dichlorobenzene	10	1.243554	20	1.251941	40	1.370875	60	1.394268	80	1.505799	100	1.586977
2-Methylphenol	10	0.7546657	20	0.8028882	40	0.9174728	60	0.9483366	80	1.051921	100	1.155358
Bis(2-chloroisopropyl)ether	10	0.8059306	20	0.8083035	40	0.895253	60	0.9143816	80	0.9824674	100	1.051048
3 & 4-Methylphenol	10	0.9021192	20	0.9855219	40	1.182388	60	1.298496	80	1.456223	100	1.566769
N-Nitroso-di-n-propylamine	10	0.6004004	20	0.6249139	40	0.714732	60	0.736818	80	0.7836921	100	0.8027385
Hexachloroethane	10	0.4815309	20	0.4744041	40	0.5375928	60	0.5396894	80	0.5719979	100	0.594098
Nitrobenzene	10	0.2581854	20	0.2558475	40	0.2820663	60	0.2805559	80	0.298173	100	0.3143971
Isophorone	10	0.4621473	20	0.4741684	40	0.5231439	60	0.5174918	80	0.5547622	100	0.5739735
2-Nitrophenol	10	0.1403981	20	0.1497639	40	0.1686795	60	0.1778626	80	0.1968359	100	0.2115452
2,4-Dimethylphenol	10	0.2386555	20	0.2365833	40	0.2772059	60	0.2880645	80	0.3196553	100	0.3453945
Bis(2-chloroethoxy)methane	10	0.2622531	20	0.2807094	40	0.3186919	60	0.3235247	80	0.3546624	100	0.3769803
Benzoic acid	10	5.420625E-02	20	7.828448E-02	40	0.1204656	60	0.1273191	80	0.1393196	100	0.1677652
2,4-Dichlorophenol	10	0.2664729	20	0.2725842	40	0.3153047	60	0.3372677	80	0.3766728	100	0.4147365
1,2,4-Trichlorobenzene	10	0.3312014	20	0.336356	40	0.3837125	60	0.3840074	80	0.4288747	100	0.4601657
Naphthalene	10	0.7964296	20	0.8376762	40	0.9928812	60	1.052384	80	1.205695	100	1.325865
4-Chloroaniline	10	~~0.179541~~	20	~~0.175437~~	40	~~0.092547~~	60	~~9.286072E-02~~	80	~~0.0912072~~	100	~~0.1057449~~
Hexachlorobutadiene	10	0.1589555	20	0.1595612	40	0.1802965	60	0.1834688	80	0.2031555	100	0.215099
4-Chloro-3-methylphenol	10	0.2357811	20	0.2428457	40	0.2767672	60	0.276446	80	0.3044476	100	0.3250906
2-Methylnaphthalene	10	0.5705598	20	0.5978335	40	0.7079957	60	0.7548038	80	0.8625851	100	0.9412813
1-Methylnaphthalene	10	0.5395151	20	0.5638766	40	0.6650816	60	0.7003513	80	0.7971531	100	0.8819486
Hexachlorocyclopentadiene	10	3.219787E-02	20	4.250919E-02	40	0.0654179	60	0.0804253	80	0.1033093	100	0.1214694
2,4,6-Trichlorophenol	10	0.3415704	20	0.3631673	40	0.4148521	60	0.43735	80	0.4718347	100	0.5079515
2,4,5-Trichlorophenol	10	0.3636087	20	0.3785084	40	0.4254546	60	0.4448516	80	0.4917215	100	0.5307417

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Soil
Calibration Date: 03/21/07 15:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Chloronaphthalene	10	0.9235623	20	0.9828663	40	1.12137	60	1.178541	80	1.280844	100	1.374633
2-Nitroaniline	10	0.2143819	20	0.2312145	40	0.2445302	60	0.2379132	80	0.24532	100	0.2606722
Dimethylphthalate	10	1.096471	20	1.138296	40	1.277901	60	1.33751	80	1.460442	100	1.57468
2,6-Dinitrotoluene	10	0.2235679	20	0.2371856	40	0.2633843	60	0.2771031	80	0.2958	100	0.3180129
Acenaphthylene	10	1.417941	20	1.544206	40	1.791922	60	1.873148	80	1.935014	100	1.88481
3-Nitroaniline	10	~~0.1370399~~	20	~~0.091875~~	40	~~0.0394878~~	60	~~3.023958E-02~~	80	~~3.154384E-02~~	100	~~3.630732E-02~~
Acenaphthene	10	0.8455192	20	0.9027514	40	1.071605	60	1.151958	80	1.293024	100	1.404619
2,4-Dinitrophenol	10	6.385995E-03	20	2.392502E-02	40	7.099545E-02	60	0.106725	80	0.1336054	100	0.1609978
4-Nitrophenol	10	0.1122417	20	0.1378146	40	0.1666418	60	0.1721622	80	0.1794356	100	0.1910457
Dibenzofuran	10	1.359775	20	1.441303	40	1.647212	60	1.731796	80	1.92202	100	2.10058
2,4-Dinitrotoluene	10	0.2964665	20	0.3217167	40	0.3648466	60	0.3822075	80	0.4142998	100	0.4495206
Diethylphthalate	10	1.104192	20	1.150089	40	1.296484	60	1.372318	80	1.485428	100	1.58883
4-Chlorophenyl-phenylether	10	0.5905527	20	0.6260877	40	0.7190286	60	0.7735153	80	0.8288694	100	0.8986036
Fluorene	10	1.099878	20	1.178548	40	1.364813	60	1.47709	80	1.586887	100	1.698167
4-Nitroaniline	10	~~0.142689~~	20	~~0.1060081~~	40	~~7.843257E-02~~	60	~~4.722687E-02~~	80	~~3.818215E-02~~	100	~~2.895446E-02~~
2-Methyl-4,6-dinitrophenol	10	3.055453E-02	20	6.691767E-02	40	0.1383628	60	0.1866384	80	0.2186475	100	0.2532472
N-Nitrosodiphenylamine	10	0.7660336	20	0.7572631	40	0.7738318	60	0.7413204	80	0.717091	100	0.719675
DPH (as Azobenzene)	10	0.2446997	20	0.2624321	40	0.2967846	60	0.3120429	80	0.3342581	100	0.3601453
4-Bromophenyl-phenylether	10	0.2267411	20	0.2417085	40	0.2747746	60	0.2818411	80	0.3096112	100	0.330149
Hexachlorobenzene	10	0.3581771	20	0.3756193	40	0.4286723	60	0.449197	80	0.490724	100	0.5309026
Pentachlorophenol	10	5.121704E-02	20	9.206092E-02	40	0.1485352	60	0.173878	80	0.2033403	100	0.2294878
Phenanthrene	10	0.9482331	20	1.011253	40	1.166942	60	1.245697	80	1.382086	100	1.505673
Anthracene	10	0.9621873	20	1.012717	40	1.191867	60	1.255397	80	1.408142	100	1.520666
Carbazole	10	~~0.7195315~~	20	~~0.5925794~~	40	~~0.3776281~~	60	~~0.1653179~~	80	~~0.1540938~~	100	~~0.1205292~~
Di-n-butylphthalate	10	1.014933	20	1.082883	40	1.275373	60	1.342931	80	1.494827	100	1.637363
Fluoranthene	10	1.109805	20	1.183234	40	1.373091	60	1.438428	80	1.589489	100	1.731895
Benzidine	10	4.575266E-02	20	1.809182E-02	40	0.0116985	60	0.0209768	80	2.720864E-02	100	2.666237E-02
Pyrene	10	1.146685	20	1.21774	40	1.407485	60	1.477703	80	1.648571	100	1.771148
1,1'-Biphenyl	10	~~1.166605~~	20	~~1.285839~~	40	~~1.489114~~	60	~~1.594866~~	80	~~1.765044~~	100	~~1.934115~~
Atrazine	10	~~0.2068852~~	20	~~0.2069347~~	40	~~0.2031736~~	60	~~0.1801113~~	80	~~0.1693838~~	100	~~0.1629258~~
Butylbenzylphthalate	10	0.4669246	20	0.4951383	40	0.5758001	60	0.6060556	80	0.6836416	100	0.7464738

INITIAL CALIBRATION DATA
EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Soil
Calibration Date: 03/21/07 15:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde	10	~~0.2131012~~	20	~~0.2110231~~	40	~~0.2115142~~	60	~~0.2140499~~	80	~~0.20004~~	100	~~0.1767389~~
3,3'-Dichlorobenzidine	10	0.3214466	20	0.2432325	40	0.2146819	60	0.216663	80	0.2190349	100	0.2266882
Caprolactam	10	~~6.744799E-02~~	20	~~7.258472E-02~~	40	~~7.350476E-02~~	60	~~6.667202E-02~~	80	~~5.780852E-02~~	100	~~5.839222E-02~~
Benzo(a)anthracene	10	0.9785121	20	1.014556	40	1.086382	60	1.089359	80	1.150993	100	1.188594
Bis(2-ethylhexyl)phthalate	10	0.4982859	20	0.5316069	40	0.611042	60	0.636532	80	0.7034801	100	0.7470657
Chrysene	10	0.8200788	20	0.8792293	40	0.9790413	60	1.005917	80	1.077153	100	1.131666
Di-n-octylphthalate	10	0.7996439	20	0.8541543	40	0.9852547	60	1.024149	80	1.125771	100	1.193707
Benzo(b)fluoranthene	10	0.9301961	20	1.034896	40	1.234066	60	1.259906	80	1.43097	100	1.505258
Benzo(k)fluoranthene	10	0.9746861	20	1.033897	40	1.159435	60	1.232299	80	1.294503	100	1.387729
Benzo(a)pyrene	10	0.8809284	20	0.9288401	40	1.069122	60	1.12182	80	1.22913	100	1.318431
Indeno(1,2,3-cd)pyrene	10	0.8880405	20	1.001768	40	1.214646	60	1.333883	80	1.479915	100	1.593001
Dibenzo(a,h)anthracene	10	0.7362988	20	0.853821	40	1.056806	60	1.170103	80	1.31493	100	1.412271
Benzo(g,h,i)perylene	10	0.6960555	20	0.7710647	40	0.909895	60	0.9742602	80	1.08592	100	1.172538
Acetophenone	10	~~1.261048~~	20	~~1.297312~~	40	~~1.454269~~	60	~~1.469651~~	80	~~1.58126~~	100	~~1.661658~~
Aniline	10		20		40		60		80		100	
2-Fluorophenol	10	0.7478325	20	0.7179837	40	0.8583787	60	0.8400306	80	0.8767563	100	0.9026645
Phenol-d5	10	1.015182	20	1.047234	40	1.172724	60	1.18645	80	1.254473	100	1.32431
Nitrobenzene-d5	10	0.2674827	20	0.2689473	40	0.2911334	60	0.2910397	80	0.3079106	100	0.3202769
2-Fluorobiphenyl	10	1.164256	20	1.234841	40	1.410497	60	1.485003	80	1.629347	100	1.753027
2,4,6-Tribromophenol	10	0.2778935	20	0.3057267	40	0.3698492	60	0.403196	80	0.4482487	100	0.4941621
Terphenyl-d14	10	0.9836872	20	1.043756	40	1.206594	60	1.268472	80	1.409587	100	1.503944

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Soil
Calibration Date: 03/21/07 15:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
N-Nitrosodimethylamine												
Pyridine	10	~~0.612822~~	20	~~0.7019631~~	40	~~0.812886~~	60	~~0.8216954~~	80	~~1.016892~~	100	~~0.9954545~~
Phenol												
Bis(2-chlorocthyl)ether												
2-Chlorophenol												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Benzyl alcohol												
1,2-Dichlorobenzene												
2-Methylphenol												
Bis(2-chloroisopropyl)ether												
3 & 4-Methylphenol												
N-Nitroso-di-n-propylamine												
Hexachloroethane												
Nitrobenzene												
Isophorone												
2-Nitrophenol												
2,4-Dimethylphenol												
Bis(2-chloroethoxy)methane												
Benzoic acid												
2,4-Dichlorophenol												
1,2,4-Trichlorobenzene												
Naphthalene												
4-Chloroaniline	10	0.2496734	20	0.2792776	40	0.2976466	60	0.3227689	80	0.3867687	100	0.4042363
Hexachlorobutadiene												
4-Chloro-3-methylphenol												
2-Methylnaphthalene												
1-Methylnaphthalene												
Hexachlorocyclopentadiene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Soil
Calibration Date: 03/21/07 15:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
2-Chloronaphthalene												
2-Nitroaniline	10	~~0.1872604~~	20	~~0.1909853~~	40	~~0.2198414~~	60	~~0.2273159~~	80	~~0.2660772~~	100	~~0.2606538~~
Dimethylphthalate												
2,6-Dinitrotoluene												
Acenaphthylene												
3-Nitroaniline	10	0.1495104	20	0.1678096	40	0.2013626	60	0.2188186	80	0.2609767	100	0.2640591
Acenaphthene												
2,4-Dinitrophenol												
4-Nitrophenol												
Dibenzofuran												
2,4-Dinitrotoluene												
Diethylphthalate												
4-Chlorophenyl-phenylether												
Fluorene												
4-Nitroaniline	10	0.1351721	20	0.1360549	40	0.1231585	60	0.1416808	80	0.1639843	100	0.1623531
2-Methyl-4,6-dinitrophenol												
N-Nitrosodiphenylamine												
DPH (as Azobenzene)	10	~~0.2398984~~	20	~~0.235901~~	40	~~0.2721325~~	60	~~0.2917763~~	80	~~0.352324~~	100	~~0.3561579~~
4-Bromophenyl-phenylether												
Hexachlorobenzene												
Pentachlorophenol												
Phenanthrene												
Anthracene												
Carbazole	10	0.7298	20	0.7639327	40	0.8687843	60	0.9527825	80	1.079417	100	1.085215
Di-n-butylphthalate												
Fluoranthene												
Benzidine												
Pyrene												
1,1'-Biphenyl												
Atrazine												
Butylbenzylphthalate												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0703009	Instrument:	JSVGCMS1
Matrix:	Soil	Calibration Date:	03/21/07 15:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzaldehyde												
3,3'-Dichlorobenzidine												
Caprolactam												
Benzo(a)anthracene												
Bis(2-ethylhexyl)phthalate												
Chrysene												
Di-n-octylphthalate												
Benzo(b)fluoranthene												
Benzo(k)fluoranthene												
Benzo(a)pyrene												
Indeno(1,2,3-cd)pyrene												
Dibenzo(a,h)anthracene												
Benzo(g,h,i)perylene												
Acetophenone												
Aniline	10		20		40		60		80		100	
2-Fluorophenol												
Phenol-d5												
Nitrobenzene-d5												
2-Fluorobiphenyl												
2,4,6-Tribromophenol												
Terphenyl-d14												

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0703009	Instrument:	JSVGCMS1
Matrix:	Soil	Calibration Date:	03/21/07 15:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
N-Nitrosodimethylamine	0.4064784	7.186043	2.69	1.356797E-02			15.4	
Pyridine	0.7761116	6.494474	2.711667	0.1497459			15.4	
Phenol	1.244833	10.45887	4.535	0.1208313			CCC (30)	
Bis(2-chloroethyl)ether	0.8789951	3.639398	4.605	0.1205878			15.4	
2-Chlorophenol	1.165916	10.10876	4.685	0.1186676			15.4	
1,3-Dichlorobenzene	1.428276	9.879612	4.816667	0.1055035			15.4	
1,4-Dichlorobenzene	1.484669	10.33531	4.88	1.602522E-02			CCC (30)	
Benzyl alcohol	0.5866488	10.25004	4.98	0.0140797			15.4	
1,2-Dichlorobenzene	1.392236	9.799571	5.02	1.396751E-02			15.4	
2-Methylphenol	0.9384404	15.99222	5.075	0.108004			15.4	*
Bis(2-chloroisopropyl)ether	0.909564	10.60867	5.083333	0.1006826			15.4	
3 & 4-Methylphenol	1.23192	21.13029	5.213333	9.875395E-02	0.9909554		0.99	
N-Nitroso-di-n-propylamine	0.7105491	11.60925	5.213333	9.875395E-02			SPCC (0.05)	
Hexachloroethane	0.5332189	8.955669	5.33	7.135707E-03			15.4	
Nitrobenzene	0.2815375	8.041847	5.393333	9.721705E-02			15.4	
Isophorone	0.5176145	8.443708	5.605	9.721768E-02			15.4	
2-Nitrophenol	0.1741809	15.59785	5.69	2.580315E-02			CCC (30)	
2,4-Dimethylphenol	0.2842598	15.25923	5.711667	6.957869E-02			15.4	
Bis(2-chloroethoxy)methane	0.3194703	13.52813	5.791667	7.439474E-02			15.4	
Benzoic acid	0.11456	36.20187	5.813333	0.5618774		0.9984951	0.99	
2,4-Dichlorophenol	0.3305065	17.62073	5.921667	7.110864E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.3873863	13.06296	6	0			15.4	
Naphthalene	1.035155	19.87637	6.081667	0.0687001		0.9993795	0.99	
4-Chloroaniline	0.3233953	18.85787	6.12	1.277828E-02		0.9973456	0.99	
Hexachlorobutadiene	0.1834228	12.36164	6.186667	8.404824E-02			CCC (30)	
4-Chloro-3-methylphenol	0.2768964	12.43926	6.595	8.085432E-02			CCC (30)	
2-Methylnaphthalene	0.7391765	19.67018	6.751667	5.981985E-02		0.9993443	0.99	
1-Methylnaphthalene	0.691321	19.14602	6.851667	5.570865E-02		0.9995047	0.99	
Hexachlorocyclopentadiene	7.422149E-02	46.54049	6.901667	5.736552E-02		0.9961949	SPCC (0.05)	
2,4,6-Trichlorophenol	0.4227877	14.99069	7.031667	5.692433E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4391477	14.67183	7.078333	5.916799E-02			15.4	
2-Chloronaphthalene	1.143636	15.05292	7.241666	5.328782E-02			15.4	

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Soil
Calibration Date: 03/21/07 15:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2-Nitroaniline	0.2390053	6.503556	7.345	7.528777E-02			15.4	
Dimethylphthalate	1.314217	14.00759	7.495	7.386862E-02			15.4	
2,6-Dinitrotoluene	0.2691756	13.18055	7.571667	9.828218E-02			15.4	
Acenaphthylene	1.741173	12.08744	7.658333	5.452423E-02			15.4	
3-Nitroaniline	0.2104228	22.40295	7.748333	9.689522E-02		0.9967199	0.99	
Acenaphthene	1.111579	19.56215	7.828333	0.0517998			CCC (30)	
2,4-Dinitrophenol	8.377244E-02	73.01667	7.855	6.903545E-02		0.9931913	SPCC (0.05)	
4-Nitrophenol	0.1598903	18.35521	7.925	7.111193E-02	0.9975948		SPCC (0.05)	
Dibenzofuran	1.700448	16.55486	7.998333	5.079035E-02		0.9997797	0.99	
2,4-Dinitrotoluene	0.3715096	15.31508	7.978333	9.457219E-02			15.4	
Diethylphthalate	1.33289	14.13069	8.193333	6.575804E-02			15.4	
4-Chlorophenyl-phenylether	0.7394429	15.99283	8.321666	5.238249E-02	0.9932165		0.99	
Fluorene	1.400897	16.59158	8.343334	6.107992E-02	0.9944208		0.99	
4-Nitroaniline	0.143734	11.28964	8.363333	6.333985E-02			15.4	
2-Methyl-4,6-dinitrophenol	0.1490613	58.49609	8.391667	4.657145E-02		0.9968581	0.99	
N-Nitrosodiphenylamine	0.7458691	3.202818	8.443333	5.741039E-02			CCC (30)	
DPH (as Azobenzene)	0.3017271	14.36874	8.483333	6.010157E-02			15.4	
4-Bromophenyl-phenylether	0.2774709	14.13092	8.811667	4.213113E-02			15.4	
Hexachlorobenzene	0.4388821	15.0732	8.898333	4.292155E-02			15.4	
Pentachlorophenol	0.1497532	45.14257	9.095	6.060481E-02		0.9991095	CCC (30)	*
Phenanthrene	1.209981	17.65556	9.31	1.441412E-02	0.9902677		0.99	
Anthracene	1.225163	17.77466	9.361666	4.699221E-02	0.9906432		0.99	
Carbazole	0.9133219	16.72539	9.515	5.628192E-02		0.9977415	0.99	
Di-n-butylphthalate	1.308052	18.16333	9.811667	0.0403705		0.9997178	0.99	
Fluoranthene	1.404324	16.83146	10.50333	4.956469E-02			CCC (30)	
Benzidine	2.506513E-02	46.49656	10.61667	5.014148E-02			15.4	*
Pyrene	1.444889	16.69453	10.735	5.038087E-02	0.9915806		0.99	
1,1'-Biphenyl					0		0.99	*
Atrazine							15.4	
Butylbenzylphthalate	0.5956723	18.02875	11.32	1.343933E-02		0.9995803	0.99	
Benzaldehyde							15.4	
3,3'-Dichlorobenzidine	0.2402912	17.10404	11.88167	2.902784E-02	0.9957291		0.99	

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703009
Instrument: JSVGCMS1
Matrix: Soil
Calibration Date: 03/21/07 15:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Caprolactam							15.4	
Benzo(a)anthracene	1.084733	7.306694	11.925	4.187558E-02			15.4	
Bis(2-ethylhexyl)phthalate	0.6213354	15.45146	11.86167	3.403849E-02			15.4	*
Chrysene	0.9821809	11.94442	11.965	3.948732E-02			15.4	
Di-n-octylphthalate	0.9971133	15.24301	12.47	0.0222082			CCC (30)	
Benzo(b)fluoranthene	1.232549	17.95859	12.94833	5.853278E-02	0.9929904		0.99	
Benzo(k)fluoranthene	1.180425	13.2827	12.97667	6.247862E-02			15.4	
Benzo(a)pyrene	1.091379	15.47704	13.28667	6.258593E-02			CCC (30)	
Indeno(1,2,3-cd)pyrene	1.251876	21.77109	14.635	9.324564E-02	0.992083		0.99	
Dibenzo(a,h)anthracene	1.090705	24.0083	14.63167	7.872458E-02	0.9915128		0.99	
Benzo(g,h,i)perylene	0.9349556	19.44983	15.02	8.504039E-02	0.9913901		0.99	
Acetophenone							15.4	
Aniline							15.4	
2-Fluorophenol	0.8239411	8.992874	3.75	0			15.4	
Phenol-d5	1.166729	10.15587	4.523333	0.1132715			15.4	
Nitrobenzene-d5	0.2911318	7.176169	5.375	0.1014843			15.4	
2-Fluorobiphenyl	1.446162	15.60463	7.103333	7.358832E-02	0.9925795		0.99	
2,4,6-Tribromophenol	0.3831794	21.58798	8.583333	0.0621781		0.9997381	0.99	
Terphenyl-d14	1.236007	16.36077	10.855	5.091891E-02	0.9925951		0.99	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Lab File ID:	5CP029.D	Injection Date:	03/22/07
Instrument ID:	JSVGCMS1	Injection Time:	12:43
Sequence:	BA00466	Lab Sample ID:	BA00466-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.5	PASS
68	Less than 2% of 69	1.05	PASS
69	Less than 101% of 198	42	PASS
70	Less than 2% of 69	0.449	PASS
127	40 - 60% of 198	46.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	30	PASS
365	1 - 100% of 198	4.76	PASS
443	17 - 23% of 442	21.1	PASS
441	0.01 - 100% of 443	74.7	PASS
442	40 - 100% of 198	66.5	PASS

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0703009
Lab File ID:	5CP030.D	Calibration Date:	03/21/07 15:47
Sequence:	BA00466	Injection Date:	03/22/07
Lab Sample ID:	BA00466-CCV3	Injection Time:	13:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Phenol	A	40.0	38.3	1.244833	1.19209		-4.2	20	
Bis(2-chloroethyl)ether	A	40.0	38.9	0.8789951	0.855808		-2.6	20	
2-Chlorophenol	A	40.0	38.8	1.165916	1.13162		-2.9	20	
2-Methylphenol	A	40.0	37.8	0.9384404	0.886236		-5.6	20	
Bis(2-chloroisopropyl)ether	A	40.0	37.4	0.909564	0.849906		-6.6	20	
3 & 4-Methylphenol	L	40.0	37.3	1.23192	1.19079		-6.8	20	
N-Nitroso-di-n-propylamine	A	40.0	40.7	0.7105491	0.723186	0.05	1.8	20	
Hexachloroethane	A	40.0	41.4	0.5332189	0.552375		3.6	20	
Nitrobenzene	A	40.0	39.6	0.2815375	0.278593		-1.0	20	
Isophorone	A	40.0	40.1	0.5176145	0.518606		0.2	20	
2-Nitrophenol	A	40.0	38.8	0.1741809	0.16885		-3.1	20	
2,4-Dimethylphenol	A	40.0	36.8	0.2842598	0.261871		-7.9	20	
Bis(2-chloroethoxy)methane	A	40.0	39.0	0.3194703	0.311485		-2.5	20	
2,4-Dichlorophenol	A	40.0	37.6	0.3305065	0.310942		-5.9		
Naphthalene	Q	40.0	41.5	1.035155	1.00274		3.8	20	
Hexachlorobutadiene	A	40.0	45.0	0.1834228	0.206127		12.4		
2-Methylnaphthalene	Q	40.0	41.7	0.7391765	0.724693		4.3	20	
2,4,6-Trichlorophenol	A	40.0	40.0	0.4227877	0.423367		0.1	20	
2,4,5-Trichlorophenol	A	40.0	38.4	0.4391477	0.422124		-3.9	20	
2-Chloronaphthalene	A	40.0	38.5	1.143636	1.09983		-3.8	20	
2-Nitroaniline	A	40.0	39.4	0.2390053	0.235165		-1.6		
Dimethylphthalate	A	40.0	38.6	1.314217	1.26819		-3.5		
2,6-Dinitrotoluene	A	40.0	37.6	0.2691756	0.252893		-6.0	20	
Acenaphthylene	A	40.0	39.9	1.741173	1.73759		-0.2	20	
3-Nitroaniline	Q	40.0	31.7	0.2104228	0.0483539		-20.8		
Acenaphthene	A	40.0	38.4	1.111579	1.06561		-4.1	20	
2,4-Dinitrophenol	Q	40.0	53.6	8.377244E-02	0.127057	0.05	34.0	20	*
4-Nitrophenol	L	40.0	38.0	0.1598903	0.15888	0.05	-4.9		
Dibenzofuran	Q	40.0	40.8	1.700448	1.6332		2.0	20	

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0703009
Lab File ID:	5CP030.D	Calibration Date:	03/21/07 15:47
Sequence:	BA00466	Injection Date:	03/22/07
Lab Sample ID:	BA00466-CCV3	Injection Time:	13:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrotoluene	A	40.0	37.5	0.3715096	0.347882		-6.4	20
Diethylphthalate	A	40.0	38.1	1.33289	1.26879		-4.8	
4-Chlorophenyl-phenylether	L	40.0	39.0	0.7394429	0.747203		-2.6	20
Fluorene	L	40.0	37.4	1.400897	1.34978		-6.5	20
4-Nitroaniline	A	40.0	20.3	0.143734	0.0373551		-74.0	O.K. EWS 4/13/07
2-Methyl-4,6-dinitrophenol	Q	40.0	52.6	0.1490613	0.220962		31.4	20 *
N-Nitrosodiphenylamine	A	40.0	39.6	0.7458691	0.739137		-0.9	
4-Bromophenyl-phenylether	A	40.0	40.2	0.2774709	0.278751		0.5	20
Pentachlorophenol	Q	40.0	43.0	0.1497532	0.160825		7.6	20
Phenanthrene	L	40.0	38.0	1.209981	1.1861		-5.0	20
Anthracene	L	40.0	37.5	1.225163	1.18131		-6.4	20
Carbazole	Q	40.0	16.2	0.9133219	0.143985		-59.4	O.K EWS 4/13/07
Di-n-butylphthalate	Q	40.0	40.8	1.308052	1.26081		2.0	
Fluoranthene	A	40.0	40.7	1.404324	1.42927		1.8	20
Pyrene	L	40.0	39.3	1.444889	1.47549		-1.7	20
1,1'-Biphenyl	L	40.0	37.3		1.48145		-6.6	
Atrazine	A	40.0	36.6		0.172401			20
Butylbenzylphthalate	Q	40.0	40.5	0.5956723	0.564555		1.2	
Benzaldehyde	A	40.0	111		0.56479			
3,3'-Dichlorobenzidine	L	40.0	40.6	0.2402912	0.231449		1.5	
Caprolactam	A	40.0	40.8		0.0673703			
Benzo(a)anthracene	A	40.0	39.8	1.084733	1.07916		-0.5	20
Bis(2-ethylhexyl)phthalate	A	40.0	36.4	0.6213354	0.565998		-8.9	
Chrysene	A	40.0	39.8	0.9821809	0.977542		-0.5	20
Di-n-octylphthalate	A	40.0	35.6	0.9971133	0.88841		-10.9	
Benzo(b)fluoranthene	L	40.0	39.1	1.232549	1.25614		-2.4	20
Benzo(k)fluoranthene	A	40.0	41.9	1.180425	1.23641		4.7	20
Benzo(a)pyrene	A	40.0	39.8	1.091379	1.08616		-0.5	20
Indeno(1,2,3-cd)pyrene	L	40.0	40.0	1.251876	1.32561		-0.08	20

CONTINUING CALIBRATION CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0703009
Lab File ID:	5CP030.D	Calibration Date:	03/21/07 15:47
Sequence:	BA00466	Injection Date:	03/22/07
Lab Sample ID:	BA00466-CCV3	Injection Time:	13:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzo(a,h)anthracene	L	40.0	39.6	1.090705	1.14837		-1.0	20
Benzo(g,h,i)perylene	L	40.0	39.2	0.9349556	0.958024		-2.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCMS1	Calibration:	0703009
Lab File ID:	5CP024.D	Calibration Date:	03/21/07 15:47
Sequence:	BA00466	Injection Date:	03/22/07
Lab Sample ID:	BA00466-CCV2	Injection Time:	09:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitroaniline	A	40.0	38.1	0.2390053	0.214816		-10.1	
3-Nitroaniline	Q	40.0	36.9	0.2104228	0.185194		-7.7	
4-Nitroaniline	A	40.0	26.8	0.143734	0.0961968		-33.1	
Carbazole	Q	40.0	37.6	0.9133219	0.831815		-6.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00466	Instrument:	JSVGCMS1
Matrix:	Soil	Calibration:	0703009

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (7C19021-BLK1)			Lab File ID: 5CP025.D			Analyzed: 03/22/07 09:25			
1,4-Dichlorobenzene-d4	294443	4.86	430062	4.86	68	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1077484	6.06	1820701	6.06	59	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	734131	7.79	1214572	7.79	60	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1304927	9.28	2126738	9.28	61	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1735521	11.93	2452172	11.93	71	50 - 200	0.0000	+/-0.50	
Perylene-d12	1644177	13.34	2587438	13.34	64	50 - 200	0.0000	+/-0.50	
JAX47-SB118-01-03 07 (B702385-01)			Lab File ID: 5CP031.D			Analyzed: 03/22/07 13:25			
1,4-Dichlorobenzene-d4	311384	4.86	357496	4.86	87	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1109079	6.06	1315401	6.06	84	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	756028	7.79	858277	7.79	88	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1353582	9.28	1504620	9.28	90	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1821399	11.93	2244664	11.93	81	50 - 200	0.0000	+/-0.50	
Perylene-d12	1735052	13.34	1981214	13.34	88	50 - 200	0.0000	+/-0.50	
JAX47-SB118-03-03 07 (B702385-02)			Lab File ID: 5CP032.D			Analyzed: 03/22/07 13:50			
1,4-Dichlorobenzene-d4	305072	4.86	357496	4.86	85	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1101058	6.06	1315401	6.06	84	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	743227	7.79	858277	7.79	87	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1333077	9.28	1504620	9.28	89	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1790464	11.93	2244664	11.93	80	50 - 200	0.0000	+/-0.50	
Perylene-d12	1712029	13.34	1981214	13.34	86	50 - 200	0.0000	+/-0.50	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00466	Instrument:	JSVGCMS1
Matrix:	Soil	Calibration:	0703009

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00466-CCV1)			Lab File ID: 5CP023.D		Analyzed: 03/21/07 23:18			
2-Fluorophenol	40.0	94	35 - 105	3.75	3.75	0.0000	+/-0.5	
Phenol-d5	40.0	95	40 - 100	4.52	4.523333	-0.0033	+/-0.5	
Nitrobenzene-d5	40.0	101	35 - 100	5.37	5.375	-0.0050	+/-0.5	*
2-Fluorobiphenyl	40.0	97	45 - 105	7.1	7.103333	-0.0033	+/-0.5	
2,4,6-Tribromophenol	40.0	94	35 - 125	8.58	8.583333	-0.0033	+/-0.5	
Terphenyl-d14	40.0	103	30 - 125	10.85	10.855	-0.0050	+/-0.5	
Blank (7C19021-BLK1)			Lab File ID: 5CP025.D		Analyzed: 03/22/07 09:25			
2-Fluorophenol	3.33	97	35 - 105	3.75	3.75	0.0000	+/-0.5	
Phenol-d5	3.33	96	40 - 100	4.52	4.523333	-0.0033	+/-0.5	
Nitrobenzene-d5	1.67	86	35 - 100	5.37	5.375	-0.0050	+/-0.5	
2-Fluorobiphenyl	1.67	84	45 - 105	7.1	7.103333	-0.0033	+/-0.5	
2,4,6-Tribromophenol	3.33	78	35 - 125	8.58	8.583333	-0.0033	+/-0.5	
Terphenyl-d14	1.67	97	30 - 125	10.85	10.855	-0.0050	+/-0.5	
LCS (7C19021-BS1)			Lab File ID: 5CP026.D		Analyzed: 03/22/07 09:50			
2-Fluorophenol	3.33	93	35 - 105	3.76	3.75	0.0100	+/-0.5	
Phenol-d5	3.33	96	40 - 100	4.52	4.523333	-0.0033	+/-0.5	
Nitrobenzene-d5	1.67	82	35 - 100	5.37	5.375	-0.0050	+/-0.5	
2-Fluorobiphenyl	1.67	82	45 - 105	7.1	7.103333	-0.0033	+/-0.5	
2,4,6-Tribromophenol	3.33	93	35 - 125	8.58	8.583333	-0.0033	+/-0.5	
Terphenyl-d14	1.67	94	30 - 125	10.85	10.855	-0.0050	+/-0.5	
Matrix Spike (7C19021-MS1)			Lab File ID: 5CP027.D		Analyzed: 03/22/07 10:15			
2-Fluorophenol	3.86	101	35 - 105	3.76	3.75	0.0100	+/-0.5	
Phenol-d5	3.86	104	40 - 100	4.52	4.523333	-0.0033	+/-0.5	*
Nitrobenzene-d5	1.93	89	35 - 100	5.37	5.375	-0.0050	+/-0.5	
2-Fluorobiphenyl	1.93	86	45 - 105	7.1	7.103333	-0.0033	+/-0.5	
2,4,6-Tribromophenol	3.86	98	35 - 125	8.58	8.583333	-0.0033	+/-0.5	
Terphenyl-d14	1.93	93	30 - 125	10.85	10.855	-0.0050	+/-0.5	
Matrix Spike Dup (7C19021-MSD1)			Lab File ID: 5CP028.D		Analyzed: 03/22/07 10:38			
2-Fluorophenol	3.86	95	35 - 105	3.76	3.75	0.0100	+/-0.5	
Phenol-d5	3.86	96	40 - 100	4.52	4.523333	-0.0033	+/-0.5	
Nitrobenzene-d5	1.93	83	35 - 100	5.37	5.375	-0.0050	+/-0.5	
2-Fluorobiphenyl	1.93	82	45 - 105	7.1	7.103333	-0.0033	+/-0.5	
2,4,6-Tribromophenol	3.86	95	35 - 125	8.58	8.583333	-0.0033	+/-0.5	
Terphenyl-d14	1.93	95	30 - 125	10.85	10.855	-0.0050	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00466	Instrument:	JSVGCMS1
Matrix:	Soil	Calibration:	0703009

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00466-CCV3)			Lab File ID: 5CP030.D		Analyzed: 03/22/07 13:00			
2-Fluorophenol	40.0	99	35 - 105	3.75	3.75	0.0000	+/-0.5	
Phenol-d5	40.0	97	40 - 100	4.52	4.523333	-0.0033	+/-0.5	
Nitrobenzene-d5	40.0	99	35 - 100	5.37	5.375	-0.0050	+/-0.5	
2-Fluorobiphenyl	40.0	95	45 - 105	7.1	7.103333	-0.0033	+/-0.5	
2,4,6-Tribromophenol	40.0	99	35 - 125	8.58	8.583333	-0.0033	+/-0.5	
Terphenyl-d14	40.0	99	30 - 125	10.85	10.855	-0.0050	+/-0.5	
JAX47-SB118-01-03 07 (B702385-01)			Lab File ID: 5CP031.D		Analyzed: 03/22/07 13:25			
2-Fluorophenol	3.66	106	35 - 105	3.75	3.75	0.0000	+/-0.5	*
Phenol-d5	3.66	103	40 - 100	4.52	4.523333	-0.0033	+/-0.5	*
Nitrobenzene-d5	1.83	96	35 - 100	5.37	5.375	-0.0050	+/-0.5	
2-Fluorobiphenyl	1.83	88	45 - 105	7.1	7.103333	-0.0033	+/-0.5	
2,4,6-Tribromophenol	3.66	84	35 - 125	8.58	8.583333	-0.0033	+/-0.5	
Terphenyl-d14	1.83	99	30 - 125	10.85	10.855	-0.0050	+/-0.5	
JAX47-SB118-03-03 07 (B702385-02)			Lab File ID: 5CP032.D		Analyzed: 03/22/07 13:50			
2-Fluorophenol	3.86	105	35 - 105	3.75	3.75	0.0000	+/-0.5	
Phenol-d5	3.86	103	40 - 100	4.52	4.523333	-0.0033	+/-0.5	*
Nitrobenzene-d5	1.93	90	35 - 100	5.37	5.375	-0.0050	+/-0.5	
2-Fluorobiphenyl	1.93	84	45 - 105	7.1	7.103333	-0.0033	+/-0.5	
2,4,6-Tribromophenol	3.86	89	35 - 125	8.58	8.583333	-0.0033	+/-0.5	
Terphenyl-d14	1.93	93	30 - 125	10.85	10.855	-0.0050	+/-0.5	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C19021	Laboratory ID:	7C19021-MS1
Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL

Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Phenol	1.93	ND	1.75	91	40 - 100
Bis(2-chloroethyl)ether	1.93	ND	1.54	80	40 - 105
2-Chlorophenol	1.93	ND	1.61	83	45 - 105
2-Methylphenol	1.93	ND	1.66	86	40 - 105
Bis(2-chloroisopropyl)ether	1.93	ND	1.56	81	20 - 115
3 & 4-Methylphenol	1.93	ND	1.58	82	40 - 105
N-Nitroso-di-n-propylamine	1.93	ND	1.79	93	40 - 115
Hexachloroethane	1.93	ND	1.56	81	35 - 110
Nitrobenzene	1.93	ND	1.70	88	40 - 115
Isophorone	1.93	ND	1.75	91	45 - 110
2-Nitrophenol	1.93	ND	1.65	86	40 - 110
2,4-Dimethylphenol	1.93	ND	1.50	78	30 - 105
Bis(2-chloroethoxy)methane	1.93	ND	1.68	87	45 - 110
2,4-Dichlorophenol	1.93	ND	1.66	86	45 - 110
Naphthalene	1.93	ND	1.72	89	40 - 105
Hexachlorobutadiene	1.93	ND	1.80	93	40 - 115
2-Methylnaphthalene	1.93	ND	1.76	91	45 - 105
2,4,6-Trichlorophenol	1.93	ND	1.79	93	45 - 110
2,4,5-Trichlorophenol	1.93	ND	1.79	93	50 - 110
2-Chloronaphthalene	1.93	ND	1.70	88	45 - 105
2-Nitroaniline	1.93	ND	1.88	97	45 - 120
Dimethylphthalate	1.93	ND	1.80	93	50 - 110
2,6-Dinitrotoluene	1.93	ND	1.78	92	50 - 110
Acenaphthylene	1.93	ND	1.82	94	45 - 105
3-Nitroaniline	1.93	ND	1.70	88	25 - 110
Acenaphthene	1.93	ND	1.72	89	45 - 110
2,4-Dinitrophenol	1.93	ND	1.02	53	15 - 130
4-Nitrophenol	1.93	ND	1.67	87	15 - 140
Dibenzofuran	1.93	ND	1.80	93	50 - 105
2,4-Dinitrotoluene	1.93	ND	1.76	91	50 - 115
Diethylphthalate	1.93	ND	1.81	94	50 - 115
4-Chlorophenyl-phenylether	1.93	ND	1.70	88	45 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX47-SB118-03-03 07

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 7C19021
Laboratory ID: 7C19021-MS1
Preparation: EPA 3545_MS
Initial/Final: 30 g / 1 mL
Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Fluorene	1.93	ND	1.66	86	50 - 110
4-Nitroaniline	1.93	ND	2.00	104	10 - 150
2-Methyl-4,6-dinitrophenol	1.93	ND	2.11	109	30 - 135
N-Nitrosodiphenylamine	1.93	ND	2.28	118 *	50 - 115
4-Bromophenyl-phenylether	1.93	ND	1.82	94	45 - 115
Pentachlorophenol	1.93	ND	1.85	96	25 - 120
Phenanthrene	1.93	ND	1.69	88	50 - 110
Anthracene	1.93	ND	1.68	87	55 - 105
Carbazole	1.93	ND	1.55	81	0 - 200
Di-n-butylphthalate	1.93	ND	1.82	94	55 - 110
Fluoranthene	1.93	ND	1.88	97	55 - 115
Pyrene	1.93	ND	1.76	91	45 - 125
Butylbenzylphthalate	1.93	ND	1.84	96	50 - 125
3,3'-Dichlorobenzidine	1.93	ND	3.00	155 *	10 - 150
Benzo(a)anthracene	1.93	ND	1.82	94	50 - 110
Bis(2-ethylhexyl)phthalate	1.93	ND	1.68	87	45 - 125
Chrysene	1.93	ND	1.83	95	55 - 110
Di-n-octylphthalate	1.93	ND	1.65	86	40 - 130
Benzo(b)fluoranthene	1.93	ND	1.73	89	45 - 115
Benzo(k)fluoranthene	1.93	ND	1.86	96	45 - 125
Benzo(a)pyrene	1.93	ND	1.81	94	50 - 110
Indeno(1,2,3-cd)pyrene	1.93	ND	1.74	90	40 - 120
Dibenzo(a,h)anthracene	1.93	ND	1.71	88	40 - 125
Benzo(g,h,i)perylene	1.93	ND	1.70	88	40 - 125

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	1.93	1.65	86	6	30	40 - 100
Bis(2-chloroethyl)ether	1.93	1.47	76	4	30	40 - 105
2-Chlorophenol	1.93	1.54	80	5	30	45 - 105
2-Methylphenol	1.93	1.58	82	4	30	40 - 105

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
EPA 8270C

JAX47-SB118-03-03 07

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 7C19021
Laboratory ID: 7C19021-MSD1
Preparation: EPA 3545_MS
Initial/Final: 30 g / 1 mL
Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroisopropyl)ether	1.93	1.48	77	5	30	20 - 115
3 & 4-Methylphenol	1.93	1.54	80	3	30	40 - 105
N-Nitroso-di-n-propylamine	1.93	1.70	88	5	30	40 - 115
Hexachloroethane	1.93	1.47	76	6	30	35 - 110
Nitrobenzene	1.93	1.57	81	8	30	40 - 115
Isophorone	1.93	1.66	86	5	30	45 - 110
2-Nitrophenol	1.93	1.58	82	5	30	40 - 110
2,4-Dimethylphenol	1.93	1.44	75	4	30	30 - 105
Bis(2-chloroethoxy)methane	1.93	1.56	81	7	30	45 - 110
2,4-Dichlorophenol	1.93	1.57	82	5	30	45 - 110
Naphthalene	1.93	1.62	84	6	30	40 - 105
Hexachlorobutadiene	1.93	1.65	86	8	30	40 - 115
2-Methylnaphthalene	1.93	1.67	86	5	30	45 - 105
2,4,6-Trichlorophenol	1.93	1.74	90	3	30	45 - 110
2,4,5-Trichlorophenol	1.93	1.75	91	2	30	50 - 110
2-Chloronaphthalene	1.93	1.62	84	5	30	45 - 105
2-Nitroaniline	1.93	1.81	94	4	30	45 - 120
Dimethylphthalate	1.93	1.76	91	2	30	50 - 110
2,6-Dinitrotoluene	1.93	1.73	90	3	30	50 - 110
Acenaphthylene	1.93	1.74	90	5	30	45 - 105
3-Nitroaniline	1.93	1.62	84	5	35	25 - 110
Acenaphthene	1.93	1.66	86	4	30	45 - 110
2,4-Dinitrophenol	1.93	1.66	86	48 *	30	15 - 130
4-Nitrophenol	1.93	1.79	92	7	30	15 - 140
Dibenzofuran	1.93	1.76	91	2	30	50 - 105
2,4-Dinitrotoluene	1.93	1.74	90	1	30	50 - 115
Diethylphthalate	1.93	1.76	91	3	30	50 - 115
4-Chlorophenyl-phenylether	1.93	1.66	86	2	30	45 - 110
Fluorene	1.93	1.65	85	1	30	50 - 110
4-Nitroaniline	1.93	1.96	101	2	34	10 - 150
2-Methyl-4,6-dinitrophenol	1.93	2.22	115	5	30	30 - 135
N-Nitrosodiphenylamine	1.93	2.24	116 *	2	30	50 - 115
4-Bromophenyl-phenylether	1.93	1.77	92	3	30	45 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C19021	Laboratory ID:	7C19021-MSD1
Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL

Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Pentachlorophenol	1.93	1.89	98	2	30	25 - 120
Phenanthrene	1.93	1.69	87	0.3	30	50 - 110
Anthracene	1.93	1.68	87	0	30	55 - 105
Carbazole	1.93	1.53	79	1	200	0 - 200
Di-n-butylphthalate	1.93	1.82	94	0.3	30	55 - 110
Fluoranthene	1.93	1.88	98	0.1	30	55 - 115
Pyrene	1.93	1.77	92	0.5	30	45 - 125
Butylbenzylphthalate	1.93	1.85	96	0.06	30	50 - 125
3,3'-Dichlorobenzidine	1.93	3.08	159 *	3	35	10 - 150
Benzo(a)anthracene	1.93	1.82	94	0.2	30	50 - 110
Bis(2-ethylhexyl)phthalate	1.93	1.73	90	3	30	45 - 125
Chrysene	1.93	1.83	95	0.1	30	55 - 110
Di-n-octylphthalate	1.93	1.72	89	4	30	40 - 130
Benzo(b)fluoranthene	1.93	1.72	89	0.2	30	45 - 115
Benzo(k)fluoranthene	1.93	1.89	98	1	30	45 - 125
Benzo(a)pyrene	1.93	1.83	95	0.6	30	50 - 110
Indeno(1,2,3-cd)pyrene	1.93	1.78	92	2	30	40 - 120
Dibenzo(a,h)anthracene	1.93	1.75	91	3	30	40 - 125
Benzo(g,h,i)perylene	1.93	1.75	91	3	30	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C19021	Laboratory ID:	7C19021-BS1
Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Phenol	1.67	1.44	86	40 - 100
Bis(2-chloroethyl)ether	1.67	1.13	68	20 - 115
2-Chlorophenol	1.67	1.29	78	45 - 105
2-Methylphenol	1.67	1.29	78	40 - 105
Bis(2-chloroisopropyl)ether	1.67	1.11	67	20 - 115
3 & 4-Methylphenol	1.67	1.31	79	40 - 105
N-Nitroso-di-n-propylamine	1.67	1.42	85	40 - 115
Hexachloroethane	1.67	0.813	49	35 - 110
Nitrobenzene	1.67	1.28	77	40 - 115
Isophorone	1.67	1.39	84	45 - 110
2-Nitrophenol	1.67	1.29	78	40 - 110
2,4-Dimethylphenol	1.67	1.07	64	30 - 105
Bis(2-chloroethoxy)methane	1.67	1.36	81	45 - 110
2,4-Dichlorophenol	1.67	1.39	84	45 - 110
Naphthalene	1.67	1.32	79	40 - 105
Hexachlorobutadiene	1.67	1.18	71	40 - 115
2-Methylnaphthalene	1.67	1.44	87	45 - 105
2,4,6-Trichlorophenol	1.67	1.48	89	45 - 110
2,4,5-Trichlorophenol	1.67	1.47	88	50 - 110
2-Chloronaphthalene	1.67	1.40	84	45 - 105
2-Nitroaniline	1.67	1.55	93	45 - 120
Dimethylphthalate	1.67	1.51	91	50 - 110
2,6-Dinitrotoluene	1.67	1.47	88	50 - 110
Acenaphthylene	1.67	1.52	91	45 - 105
3-Nitroaniline	1.67	1.29	77	10 - 150
Acenaphthene	1.67	1.44	86	45 - 110
2,4-Dinitrophenol	1.67	1.65	99	15 - 130
4-Nitrophenol	1.67	1.45	87	15 - 140
Dibenzofuran	1.67	1.53	92	50 - 105
2,4-Dinitrotoluene	1.67	1.52	91	50 - 115

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C19021	Laboratory ID:	7C19021-BS1
Preparation:	EPA 3545_MS	Initial/Final:	30 g / 1 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Diethylphthalate	1.67	1.53	92	50 - 115
4-Chlorophenyl-phenylether	1.67	1.47	88	45 - 110
Fluorene	1.67	1.44	86	50 - 110
4-Nitroaniline	1.67	1.26	76	42 - 150
2-Methyl-4,6-dinitrophenol	1.67	1.83	110	30 - 135
N-Nitrosodiphenylamine	1.67	1.91	114	50 - 115
4-Bromophenyl-phenylether	1.67	1.57	94	45 - 115
Pentachlorophenol	1.67	1.57	94	25 - 120
Phenanthrene	1.67	1.50	90	50 - 110
Anthracene	1.67	1.47	88	55 - 105
Carbazole	1.67	1.23	74	0 - 200
Di-n-butylphthalate	1.67	1.62	97	55 - 110
Fluoranthene	1.67	1.68	101	55 - 115
Pyrene	1.67	1.57	94	45 - 125
Butylbenzylphthalate	1.67	1.63	98	50 - 125
3,3'-Dichlorobenzidine	1.67	2.27	136	13 - 150
Benzo(a)anthracene	1.67	1.60	96	50 - 110
Bis(2-ethylhexyl)phthalate	1.67	1.49	90	45 - 125
Chrysene	1.67	1.60	96	55 - 110
Di-n-octylphthalate	1.67	1.48	89	40 - 130
Benzo(b)fluoranthene	1.67	1.50	90	45 - 115
Benzo(k)fluoranthene	1.67	1.75	105	45 - 125
Benzo(a)pyrene	1.67	1.63	98	50 - 110
Indeno(1,2,3-cd)pyrene	1.67	1.55	93	40 - 120
Dibenzo(a,h)anthracene	1.67	1.53	92	40 - 125
Benzo(g,h,i)perylene	1.67	1.50	90	40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ENCO Jacksonville

SDG: BR006-021

CLASS: PEST

METHOD: EPA 8081A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081A

Laboratory: ENCO Jacksonville

SDG: BR006-021

Client: Tetra Tech NUS (BR006)

Project: NAS Jacksonville, CTO 047

Client Sample Id:	Lab Sample Id:
JAX47-SB120-01-030907	B702285-10
JAX47-SB118-01-03 07	B702385-01
JAX47-SB118-03-03 07	B702385-02

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins

Name: Christina Tompkins

Date: 4/6/07

Title: Project Manager

PREPARATION BATCH SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C19019 Batch Matrix: Soil Preparation: EPA 3545

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C19019-BLK1	9CPB012	03/19/07 15:34	
Blank	7C19019-BLK1	9CPA012	03/19/07 15:34	
LCS	7C19019-BS1	9CPB013	03/19/07 15:34	
LCS	7C19019-BS1	9CPA013	03/19/07 15:34	
JAX47-SB118-03-03 07	7C19019-MS1	9CPB014	03/19/07 15:34	
JAX47-SB118-03-03 07	7C19019-MS1	9CPA014	03/19/07 15:34	
JAX47-SB118-03-03 07	7C19019-MSD1	9CPB015	03/19/07 15:34	
JAX47-SB118-03-03 07	7C19019-MSD1	9CPA015	03/19/07 15:34	
JAX47-SB120-01-030907	B702285-10	9CPB018	03/19/07 15:34	
JAX47-SB120-01-030907	B702285-10	9CPA018	03/19/07 15:34	
JAX47-SB118-01-03 07	B702385-01	9CPB016	03/19/07 15:34	
JAX47-SB118-01-03 07	B702385-01	9CPA016	03/19/07 15:34	
JAX47-SB118-03-03 07	B702385-02	9CPB017	03/19/07 15:34	USE as your MS/MSD
JAX47-SB118-03-03 07	B702385-02	9CPA017	03/19/07 15:34	USE as your MS/MSD

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00457	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0703005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument Blank	BA00457-IBL1	9CPA001	03/21/07 10:25
Instrument Blank	BA00457-IBL1	9CPB001	03/21/07 10:25
Performance Mix	BA00457-PEM1	9CPB002	03/21/07 10:51
Performance Mix	BA00457-PEM1	9CPA002	03/21/07 10:51
Calibration Check	BA00457-CCV1	9CPB011	03/21/07 14:43
Calibration Check	BA00457-CCV1	9CPA011	03/21/07 14:43
Blank	7C19019-BLK1	9CPB012	03/21/07 15:09
Blank	7C19019-BLK1	9CPA012	03/21/07 15:09
LCS	7C19019-BS1	9CPA013	03/21/07 15:35
LCS	7C19019-BS1	9CPB013	03/21/07 15:35
JAX47-SB118-03-03 07	7C19019-MS1	9CPA014	03/21/07 16:01
JAX47-SB118-03-03 07	7C19019-MS1	9CPB014	03/21/07 16:01
JAX47-SB118-03-03 07	7C19019-MSD1	9CPA015	03/21/07 16:27
JAX47-SB118-03-03 07	7C19019-MSD1	9CPB015	03/21/07 16:27
JAX47-SB118-01-03 07	B702385-01	9CPB016	03/21/07 16:53
JAX47-SB118-01-03 07	B702385-01	9CPA016	03/21/07 16:53
JAX47-SB118-03-03 07	B702385-02	9CPB017	03/21/07 17:18
JAX47-SB118-03-03 07	B702385-02	9CPA017	03/21/07 17:18
JAX47-SB120-01-030907	B702285-10	9CPA018	03/21/07 17:44
JAX47-SB120-01-030907	B702285-10	9CPB018	03/21/07 17:44
Calibration Check	BA00457-CCV2	9CPB019	03/21/07 18:10
Calibration Check	BA00457-CCV2	9CPA019	03/21/07 18:10

HOLDING TIME SUMMARY

EPA 8081A

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	O
JAX47-SB120-01-030907	03/09/07 00:00	03/09/07 17:23	03/19/07 15:34	11.00	14.00	03/21/07 17:44	2.00	40.00	
JAX47-SB118-01-03 07	03/13/07 11:09	03/13/07 13:12	03/19/07 15:34	6.00	14.00	03/21/07 16:53	2.00	40.00	
JAX47-SB118-03-03 07	03/13/07 11:25	03/13/07 13:12	03/19/07 15:34	6.00	14.00	03/21/07 17:18	2.00	40.00	

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville		SDG:	BR006-021	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Jacksonville, CTO 047	
Matrix:	Soil	Laboratory ID:	7C19019-BLK1	File ID:	9CPA012
Prepared:	03/19/07 15:34	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	03/21/07 15:09	Instrument:	JSVGCECD2		
Batch:	7C19019	Sequence:	BA00457	Calibration:	0703005

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
319-84-6	alpha-BHC	0.00013	U
58-89-9	gamma-BHC	0.00016	U
319-85-7	beta-BHC	0.00033	U
319-86-8	delta-BHC	0.0021	
76-44-8	Heptachlor	0.00023	U
309-00-2	Aldrin	0.00020	U
1024-57-3	Heptachlor epoxide	0.00056	U
NA	Chlordane-gamma	0.00023	U
NA	Chlordane-alpha	0.00026	U
72-55-9	4,4'-DDE	0.00033	U
959-98-8	Endosulfan I	0.00026	U
60-57-1	Dieldrin	0.00023	U
72-20-8	Endrin	0.00036	U
72-54-8	4,4'-DDD	0.00030	U
33213-65-9	Endosulfan II	0.00023	U
50-29-3	4,4'-DDT	0.00013	U
7421-93-4	Endrin aldehyde	0.00016	U
72-43-5	Methoxychlor	0.00033	U
1031-07-8	Endosulfan sulfate	0.00026	U
53494-70-5	Endrin ketone	0.00030	U
8001-35-2	Toxaphene	0.0016	U
8001-35-2	Toxaphene [2C]	0.0016	U
319-84-6	alpha-BHC [2C]	0.00013	U
58-89-9	gamma-BHC [2C]	0.00016	U
319-85-7	beta-BHC [2C]	0.00033	U
319-86-8	delta-BHC [2C]	0.0018	
76-44-8	Heptachlor [2C]	0.00023	U
309-00-2	Aldrin [2C]	0.00020	U
1024-57-3	Heptachlor epoxide [2C]	0.00056	U
NA	Chlordane-gamma [2C]	0.00023	U

METHOD BLANK DATA SHEET
EPA 8081A

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	7C19019-BLK1	File ID:	9CPB012
Prepared:	03/19/07 15:34	Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL
Analyzed:	03/21/07 15:09	Instrument:	JSVGCECD2		
Batch:	7C19019	Sequence:	BA00457	Calibration:	0703005

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
NA	Chlordane-alpha [2C]	0.00026	U
72-55-9	4,4'-DDE [2C]	0.00033	U
959-98-8	Endosulfan I [2C]	0.00026	U
60-57-1	Dieldrin [2C]	0.00023	U
72-20-8	Endrin [2C]	0.00036	U
72-54-8	4,4'-DDD [2C]	0.00030	U
33213-65-9	Endosulfan II [2C]	0.00023	U
50-29-3	4,4'-DDT [2C]	0.00013	U
7421-93-4	Endrin aldehyde [2C]	0.00016	U
72-43-5	Methoxychlor [2C]	0.00033	U
1031-07-8	Endosulfan sulfate [2C]	0.00026	U
53494-70-5	Endrin ketone [2C]	0.00030	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX	0.0333	0.032	96	70 - 125	
2,4,5,6-TCMX [2C]	0.0333	0.033	98	70 - 125	
DBC	0.0333	0.034	101	55 - 150	
DBC [2C]	0.0333	0.034	103	55 - 150	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00457	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration:	0703005

Surrogate Compound	Spike Level mg/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (7C19019-BLK1)			Lab File ID: 9CPA012		Analyzed: 03/21/07 15:09			
2,4,5,6-TCMX	0.0333	96	70 - 125	6.674267	6.670759	0.0035	+/-0.3	
2,4,5,6-TCMX [2C]	0.0333	98	70 - 125	6.578946	6.574225	0.0047	+/-0.3	
DBC	0.0333	101	55 - 150	13.94011	13.93769	0.0024	+/-0.3	
DBC [2C]	0.0333	103	55 - 150	13.90366	13.90026	0.0034	+/-0.3	
JAX47-SB118-01-03 07 (B702385-01)			Lab File ID: 9CPA016		Analyzed: 03/21/07 16:53			
2,4,5,6-TCMX	0.0366	77	70 - 125	6.673794	6.670759	0.0030	+/-0.3	
2,4,5,6-TCMX [2C]	0.0366	78	70 - 125	6.577809	6.574225	0.0036	+/-0.3	
DBC	0.0366	72	55 - 150	13.93734	13.93769	-0.0003	+/-0.3	
DBC [2C]	0.0366	72	55 - 150	13.9009	13.90026	0.0006	+/-0.3	
JAX47-SB118-03-03 07 (B702385-02)			Lab File ID: 9CPA017		Analyzed: 03/21/07 17:18			
2,4,5,6-TCMX	0.0386	87	70 - 125	6.673468	6.670759	0.0027	+/-0.3	
2,4,5,6-TCMX [2C]	0.0386	89	70 - 125	6.577487	6.574225	0.0033	+/-0.3	
DBC	0.0386	93	55 - 150	13.9383	13.93769	0.0006	+/-0.3	
DBC [2C]	0.0386	93	55 - 150	13.90202	13.90026	0.0018	+/-0.3	
JAX47-SB120-01-030907 (B702285-10)			Lab File ID: 9CPA018		Analyzed: 03/21/07 17:44			
2,4,5,6-TCMX	0.0453	87	70 - 125	6.673863	6.670759	0.0031	+/-0.3	
2,4,5,6-TCMX [2C]	0.0453	89	70 - 125	6.578245	6.574225	0.0040	+/-0.3	
DBC	0.0453	81	55 - 150	13.93908	13.93769	0.0014	+/-0.3	
DBC [2C]	0.0453	82	55 - 150	13.90269	13.90026	0.0024	+/-0.3	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C19019	Laboratory ID:	7C19019-MS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.0386	ND	0.039	101	60 - 125
gamma-BHC	0.0386	ND	0.039	101	60 - 125
beta-BHC	0.0386	ND	0.037	96	60 - 125
delta-BHC	0.0386	ND	0.029	75	55 - 130
Heptachlor	0.0386	ND	0.041	105	50 - 140
Aldrin	0.0386	ND	0.038	98	45 - 140
Heptachlor epoxide	0.0386	ND	0.036	92	65 - 130
Chlordane-gamma	0.0386	ND	0.038	100	65 - 125
Chlordane-alpha	0.0386	ND	0.039	101	65 - 120
4,4'-DDE	0.0386	ND	0.039	102	70 - 125
Endosulfan I	0.0386	ND	0.038	99	15 - 135
Dieldrin	0.0386	ND	0.038	98	65 - 125
Endrin	0.0386	ND	0.041	105	60 - 135
4,4'-DDD	0.0386	ND	0.038	99	30 - 135
Endosulfan II	0.0386	ND	0.039	100	35 - 140
4,4'-DDT	0.0386	ND	0.043	112	45 - 140
Endrin aldehyde	0.0386	ND	0.038	98	35 - 145
Methoxychlor	0.0386	ND	0.040	104	55 - 145
Endosulfan sulfate	0.0386	ND	0.038	98	60 - 135
Endrin ketone	0.0386	ND	0.041	105	65 - 135
alpha-BHC [2C]	0.0386	ND	0.040	103	60 - 125
gamma-BHC [2C]	0.0386	ND	0.039	101	60 - 125
beta-BHC [2C]	0.0386	ND	0.037	96	60 - 125
delta-BHC [2C]	0.0386	ND	0.029	74	55 - 130
Heptachlor [2C]	0.0386	ND	0.042	110	50 - 140
Aldrin [2C]	0.0386	ND	0.039	100	40 - 140
Heptachlor epoxide [2C]	0.0386	ND	0.038	99	65 - 130
Chlordane-gamma [2C]	0.0386	ND	0.039	101	65 - 125
Chlordane-alpha [2C]	0.0386	ND	0.040	103	65 - 120
4,4'-DDE [2C]	0.0386	ND	0.039	101	70 - 125
Endosulfan I [2C]	0.0386	ND	0.039	102	15 - 135
Dieldrin [2C]	0.0386	ND	0.040	102	65 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C19019	Laboratory ID:	7C19019-MS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Endrin [2C]	0.0386	ND	0.042	108	60 - 135
4,4'-DDD [2C]	0.0386	ND	0.040	104	30 - 135
Endosulfan II [2C]	0.0386	ND	0.039	100	35 - 140
4,4'-DDT [2C]	0.0386	ND	0.036	92	45 - 140
Endrin aldehyde [2C]	0.0386	ND	0.038	99	35 - 145
Methoxychlor [2C]	0.0386	ND	0.041	106	55 - 145
Endosulfan sulfate [2C]	0.0386	ND	0.038	99	60 - 135
Endrin ketone [2C]	0.0386	ND	0.040	105	65 - 135

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.0386	0.037	97	4	30	60 - 125
gamma-BHC	0.0386	0.038	98	4	30	60 - 125
beta-BHC	0.0386	0.036	92	4	30	60 - 125
delta-BHC	0.0386	0.027	71	6	30	55 - 130
Heptachlor	0.0386	0.039	100	5	30	50 - 140
Aldrin	0.0386	0.036	93	5	30	45 - 140
Heptachlor epoxide	0.0386	0.034	88	4	30	65 - 130
Chlordane-gamma	0.0386	0.037	95	5	30	65 - 125
Chlordane-alpha	0.0386	0.037	96	5	30	65 - 120
4,4'-DDE	0.0386	0.037	96	5	30	70 - 125
Endosulfan I	0.0386	0.037	95	4	30	15 - 135
Dieldrin	0.0386	0.037	95	3	30	65 - 125
Endrin	0.0386	0.039	101	4	30	60 - 135
4,4'-DDD	0.0386	0.037	96	3	30	30 - 135
Endosulfan II	0.0386	0.037	97	4	30	35 - 140
4,4'-DDT	0.0386	0.041	107	4	30	45 - 140
Endrin aldehyde	0.0386	0.037	95	4	30	35 - 145
Methoxychlor	0.0386	0.039	101	3	30	55 - 145
Endosulfan sulfate	0.0386	0.037	95	4	30	60 - 135
Endrin ketone	0.0386	0.039	102	3	30	65 - 135
alpha-BHC [2C]	0.0386	0.038	98	4	30	60 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081A

JAX47-SB118-03-03 07

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C19019	Laboratory ID:	7C19019-MSD1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

Source Sample Name: JAX47-SB118-03-03 07

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC [2C]	0.0386	0.038	98	3	30	60 - 125
beta-BHC [2C]	0.0386	0.037	95	2	30	60 - 125
delta-BHC [2C]	0.0386	0.028	71	4	30	55 - 130
Heptachlor [2C]	0.0386	0.039	102	7	30	50 - 140
Aldrin [2C]	0.0386	0.037	95	5	30	40 - 140
Heptachlor epoxide [2C]	0.0386	0.037	95	5	30	65 - 130
Chlordane-gamma [2C]	0.0386	0.037	96	5	30	65 - 125
Chlordane-alpha [2C]	0.0386	0.038	97	5	30	65 - 120
4,4'-DDE [2C]	0.0386	0.037	97	5	30	70 - 125
Endosulfan I [2C]	0.0386	0.038	97	5	30	15 - 135
Dieldrin [2C]	0.0386	0.038	98	4	30	65 - 125
Endrin [2C]	0.0386	0.040	103	5	30	60 - 135
4,4'-DDD [2C]	0.0386	0.038	99	5	30	30 - 135
Endosulfan II [2C]	0.0386	0.037	97	4	30	35 - 140
4,4'-DDT [2C]	0.0386	0.034	89	4	30	45 - 140
Endrin aldehyde [2C]	0.0386	0.037	95	4	30	35 - 145
Methoxychlor [2C]	0.0386	0.039	101	5	30	55 - 145
Endosulfan sulfate [2C]	0.0386	0.037	95	4	30	60 - 135
Endrin ketone [2C]	0.0386	0.039	101	4	30	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Batch: 7C19019
Laboratory ID: 7C19019-BS1
Preparation: EPA 3545
Initial/Final: 15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.0333	0.034	102	60 - 125
gamma-BHC	0.0333	0.034	102	60 - 125
beta-BHC	0.0333	0.032	96	60 - 125
delta-BHC	0.0333	0.029	88	55 - 130
Heptachlor	0.0333	0.035	106	50 - 140
Aldrin	0.0333	0.033	99	45 - 140
Heptachlor epoxide	0.0333	0.031	93	65 - 130
Chlordane-gamma	0.0333	0.034	101	65 - 125
Chlordane-alpha	0.0333	0.033	100	65 - 120
4,4'-DDE	0.0333	0.034	102	70 - 125
Endosulfan I	0.0333	0.033	99	15 - 135
Dieldrin	0.0333	0.033	100	65 - 125
Endrin	0.0333	0.034	102	60 - 135
4,4'-DDD	0.0333	0.035	104	30 - 135
Endosulfan II	0.0333	0.034	101	35 - 140
4,4'-DDT	0.0333	0.037	111	45 - 140
Endrin aldehyde	0.0333	0.032	97	35 - 145
Methoxychlor	0.0333	0.034	103	55 - 145
Endosulfan sulfate	0.0333	0.032	97	60 - 135
Endrin ketone	0.0333	0.035	106	65 - 135
alpha-BHC [2C]	0.0333	0.034	103	60 - 125
gamma-BHC [2C]	0.0333	0.034	103	60 - 125
beta-BHC [2C]	0.0333	0.033	98	60 - 125
delta-BHC [2C]	0.0333	0.024	73	55 - 130
Heptachlor [2C]	0.0333	0.036	109	50 - 140
Aldrin [2C]	0.0333	0.034	102	40 - 140
Heptachlor epoxide [2C]	0.0333	0.033	100	65 - 130
Chlordane-gamma [2C]	0.0333	0.034	102	65 - 125
Chlordane-alpha [2C]	0.0333	0.034	101	65 - 120
4,4'-DDE [2C]	0.0333	0.035	105	70 - 125

LCS / LCS DUPLICATE RECOVERY

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Matrix:	Soil		
Batch:	7C19019	Laboratory ID:	7C19019-BS1
Preparation:	EPA 3545	Initial/Final:	15 g / 5 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Endosulfan I [2C]	0.0333	0.034	101	15 - 135
Dieldrin [2C]	0.0333	0.034	103	65 - 125
Endrin [2C]	0.0333	0.034	103	60 - 135
4,4'-DDD [2C]	0.0333	0.035	106	30 - 135
Endosulfan II [2C]	0.0333	0.034	101	35 - 140
4,4'-DDT [2C]	0.0333	0.032	95	45 - 140
Endrin aldehyde [2C]	0.0333	0.033	98	35 - 145
Methoxychlor [2C]	0.0333	0.034	103	55 - 145
Endosulfan sulfate [2C]	0.0333	0.033	98	60 - 135
Endrin ketone [2C]	0.0333	0.035	106	65 - 135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00451	Instrument:	JSVGCECD2
Calibration:	0703005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B7C0150	608/8081 - .005 ppm curve standard	BA00451-CAL1	9COB004	03/20/07 13:10
B7C0150	608/8081 - .005 ppm curve standard	BA00451-CAL1	9COA004	03/20/07 13:10
B7C0151	608/8081 - .010 ppm curve standard	BA00451-CAL2	9COB005	03/20/07 13:36
B7C0151	608/8081 - .010 ppm curve standard	BA00451-CAL2	9COA005	03/20/07 13:36
B7C0152	608/8081 - .025 ppm curve standard	BA00451-CAL3	9COB006	03/20/07 14:02
B7C0152	608/8081 - .025 ppm curve standard	BA00451-CAL3	9COA006	03/20/07 14:02
B7C0153	608/8081 - .050 ppm curve standard	BA00451-CAL4	9COB007	03/20/07 14:28
B7C0153	608/8081 - .050 ppm curve standard	BA00451-CAL4	9COA007	03/20/07 14:28
B7C0154	608/8081 - .075 ppm curve standard	BA00451-CAL5	9COB008	03/20/07 14:53
B7C0154	608/8081 - .075 ppm curve standard	BA00451-CAL5	9COA008	03/20/07 14:53
B7C0155	608/8081 - .100 ppm curve standard	BA00451-CAL6	9COB009	03/20/07 15:19
B7C0155	608/8081 - .100 ppm curve standard	BA00451-CAL6	9COA009	03/20/07 15:19
B7C0156	608/8081 - .250 ppm curve standard	BA00451-CAL7	9COB010	03/20/07 15:45
B7C0156	608/8081 - .250 ppm curve standard	BA00451-CAL7	9COA010	03/20/07 15:45

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 03/01/07 12:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.005	4.606098E+07	0.01	5.51109E+07	0.025	6.098744E+07	0.05	6.802154E+07	0.075	6.642141E+07	0.1	8.127282E+07
gamma-BHC	0.005	4.335622E+07	0.01	5.031685E+07	0.025	5.441116E+07	0.05	5.997746E+07	0.075	5.828185E+07	0.1	7.130855E+07
beta-BHC	0.005	2.225324E+07	0.01	2.297192E+07	0.025	2.242657E+07	0.05	2.340404E+07	0.075	2.238444E+07	0.1	2.707516E+07
delta-BHC	0.005	3.57206E+07	0.01	4.209962E+07	0.025	4.662172E+07	0.05	5.303634E+07	0.075	5.199993E+07	0.1	6.437914E+07
Heptachlor	0.005	3.58118E+07	0.01	3.881325E+07	0.025	4.148396E+07	0.05	4.583788E+07	0.075	4.467529E+07	0.1	5.489376E+07
Aldrin	0.005	4.3964E+07	0.01	4.995355E+07	0.025	5.27996E+07	0.05	5.751792E+07	0.075	5.531399E+07	0.1	6.65608E+07
Isodrin	0.005	4.83735E+07	0.01	5.305353E+07	0.025	5.388512E+07	0.05	5.709532E+07	0.075	5.427432E+07	0.1	6.431795E+07
Heptachlor epoxide	0.005	4.333702E+07	0.01	4.6723E+07	0.025	4.716552E+07	0.05	4.95351E+07	0.075	4.688523E+07	0.1	5.563123E+07
Chlordane-gamma	0.005	4.014474E+07	0.01	4.378121E+07	0.025	4.517148E+07	0.05	4.893792E+07	0.075	4.702203E+07	0.1	5.691802E+07
Chlordane-alpha	0.005	3.935718E+07	0.01	4.2506E+07	0.025	4.338828E+07	0.05	4.652304E+07	0.075	4.459721E+07	0.1	5.390612E+07
4,4'-DDE	0.005	3.920916E+07	0.01	4.34802E+07	0.025	4.538436E+07	0.05	4.934062E+07	0.075	4.75452E+07	0.1	5.758875E+07
Endosulfan I	0.005	3.946224E+07	0.01	4.254957E+07	0.025	4.31138E+07	0.05	4.564234E+07	0.075	4.33122E+07	0.1	5.159597E+07
Dieldrin	0.005	3.836054E+07	0.01	4.251416E+07	0.025	4.462908E+07	0.05	4.769698E+07	0.075	4.571356E+07	0.1	5.539253E+07
Endrin	0.005	3.262744E+07	0.01	3.577533E+07	0.025	3.746774E+07	0.05	3.998742E+07	0.075	3.816771E+07	0.1	4.5994E+07
4,4'-DDD	0.005	3.004706E+07	0.01	3.429309E+07	0.025	3.630298E+07	0.05	4.022872E+07	0.075	3.859704E+07	0.1	4.68072E+07
Endosulfan II	0.005	3.493016E+07	0.01	3.750288E+07	0.025	3.763E+07	0.05	3.994548E+07	0.075	3.820545E+07	0.1	4.569209E+07
4,4'-DDT	0.005	2.322672E+07	0.01	2.58749E+07	0.025	2.837804E+07	0.05	3.127594E+07	0.075	3.148183E+07	0.1	3.913691E+07
Endrin aldehyde	0.005	2.615426E+07	0.01	2.702942E+07	0.025	2.733274E+07	0.05	2.869506E+07	0.075	2.74554E+07	0.1	3.305343E+07
Methoxychlor	0.005	1.415891E+07	0.01	1.473476E+07	0.025	1.464954E+07	0.05	1.526076E+07	0.075	1.465728E+07	0.1	1.769959E+07
Mirex	0.005	3.171244E+07	0.01	3.18795E+07	0.025	2.949904E+07	0.05	2.989248E+07	0.075	2.783893E+07	0.1	3.314408E+07
Endosulfan sulfate	0.005	2.853024E+07	0.01	3.03783E+07	0.025	3.019918E+07	0.05	3.197342E+07	0.075	3.068015E+07	0.1	3.713375E+07
Endrin ketone	0.005	3.445368E+07	0.01	3.751836E+07	0.025	3.794191E+07	0.05	4.068358E+07	0.075	3.884577E+07	0.1	4.696493E+07
alpha-BHC [2C]	0.005	3.747336E+07	0.01	4.571508E+07	0.025	5.141708E+07	0.05	5.72189E+07	0.075	5.534117E+07	0.1	6.729408E+07
gamma-BHC [2C]	0.005	3.521484E+07	0.01	4.181985E+07	0.025	4.602284E+07	0.05	5.070998E+07	0.075	4.90068E+07	0.1	5.967511E+07
beta-BHC [2C]	0.005	1.810946E+07	0.01	1.878253E+07	0.025	1.883721E+07	0.05	1.985859E+07	0.075	1.894245E+07	0.1	2.319489E+07
delta-BHC [2C]	0.005	2.789514E+07	0.01	3.36537E+07	0.025	3.842685E+07	0.05	4.374058E+07	0.075	4.289763E+07	0.1	5.300067E+07
Heptachlor [2C]	0.005	2.51351E+07	0.01	2.907122E+07	0.025	3.264516E+07	0.05	3.565214E+07	0.075	3.541681E+07	0.1	4.378743E+07
Aldrin [2C]	0.005	3.495176E+07	0.01	4.033846E+07	0.025	4.367556E+07	0.05	4.771426E+07	0.075	4.577856E+07	0.1	5.521993E+07
Isodrin [2C]	0.005	3.952616E+07	0.01	4.440999E+07	0.025	4.594128E+07	0.05	4.874278E+07	0.075	4.614627E+07	0.1	5.471957E+07
Heptachlor epoxide [2C]	0.005	3.619876E+07	0.01	3.97422E+07	0.025	4.079444E+07	0.05	4.31402E+07	0.075	4.065052E+07	0.1	4.818995E+07
Chlordane-gamma [2C]	0.005	3.35809E+07	0.01	3.720763E+07	0.025	3.887422E+07	0.05	4.226676E+07	0.075	4.041139E+07	0.1	4.897276E+07

INITIAL CALIBRATION DATA
EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 03/01/07 12:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.005	3.311316E+07	0.01	3.630851E+07	0.025	3.686644E+07	0.05	3.975378E+07	0.075	3.788379E+07	0.1	4.575593E+07
4,4'-DDE [2C]	0.005	3.111618E+07	0.01	3.562854E+07	0.025	3.815848E+07	0.05	4.181834E+07	0.075	4.031916E+07	0.1	4.901005E+07
Endosulfan I [2C]	0.005	3.25376E+07	0.01	3.593898E+07	0.025	3.63917E+07	0.05	3.892732E+07	0.075	3.686311E+07	0.1	4.401949E+07
Dieldrin [2C]	0.005	3.240806E+07	0.01	3.69742E+07	0.025	3.948282E+07	0.05	4.314608E+07	0.075	4.112331E+07	0.1	4.935506E+07
Endrin [2C]	0.005	2.701536E+07	0.01	3.061546E+07	0.025	3.234729E+07	0.05	3.508084E+07	0.075	3.333257E+07	0.1	4.006296E+07
4,4'-DDD [2C]	0.005	2.53495E+07	0.01	3.00144E+07	0.025	3.22074E+07	0.05	3.595618E+07	0.075	3.417315E+07	0.1	4.171188E+07
Endosulfan II [2C]	0.005	3.042296E+07	0.01	3.323524E+07	0.025	3.399309E+07	0.05	3.61709E+07	0.075	3.435011E+07	0.1	4.113865E+07
4,4'-DDT [2C]	0.005	2.041094E+07	0.01	2.323644E+07	0.025	2.592813E+07	0.05	2.89978E+07	0.075	2.921109E+07	0.1	3.616311E+07
Endrin aldehyde [2C]	0.005	2.262978E+07	0.01	2.376452E+07	0.025	2.393486E+07	0.05	2.600852E+07	0.075	2.490877E+07	0.1	3.001733E+07
Methoxychlor [2C]	0.005	1.299606E+07	0.01	1.370627E+07	0.025	1.352385E+07	0.05	1.396616E+07	0.075	1.358157E+07	0.1	1.630647E+07
Mirex [2C]	0.005	2.819732E+07	0.01	2.826346E+07	0.025	2.611618E+07	0.05	2.626222E+07	0.075	2.46192E+07	0.1	2.934099E+07
Endosulfan sulfate [2C]	0.005	2.575228E+07	0.01	2.767907E+07	0.025	2.793673E+07	0.05	2.9711E+07	0.075	2.851317E+07	0.1	3.438343E+07
Endrin ketone [2C]	0.005	3.166586E+07	0.01	3.483213E+07	0.025	3.551228E+07	0.05	3.808588E+07	0.075	3.625597E+07	0.1	4.346492E+07
2,4,5,6-TCMX	0.005	3.616898E+07	0.01	3.91421E+07	0.025	3.946635E+07	0.05	4.197744E+07	0.075	4.041527E+07	0.1	4.91776E+07
2,4,5,6-TCMX [2C]	0.005	3.03435E+07	0.01	3.359902E+07	0.025	3.435862E+07	0.05	3.652776E+07	0.075	3.503803E+07	0.1	4.256069E+07
DBC	0.005	2.886298E+07	0.01	3.087179E+07	0.025	3.114176E+07	0.05	3.336246E+07	0.075	3.189867E+07	0.1	3.854553E+07
DBC [2C]	0.005	2.575564E+07	0.01	2.787482E+07	0.025	2.839594E+07	0.05	3.039976E+07	0.075	2.911637E+07	0.1	3.508222E+07

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 03/01/07 12:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
alpha-BHC	0.25	7.463612E+07										
gamma-BHC	0.25	6.867728E+07										
beta-BHC	0.25	2.630814E+07										
delta-BHC	0.25	6.354544E+07										
Heptachlor	0.25	5.24904E+07										
Aldrin	0.25	6.234456E+07										
Isodrin	0.25	5.877168E+07										
Heptachlor epoxide	0.25	5.124136E+07										
Chlordane-gamma	0.25	5.4841E+07										
Chlordane-alpha	0.25	5.173984E+07										
4,4'-DDE	0.25	5.51486E+07										
Endosulfan I	0.25	4.770548E+07										
Dieldrin	0.25	5.188692E+07										
Endrin	0.25	4.329344E+07										
4,4'-DDD	0.25	4.536368E+07										
Endosulfan II	0.25	4.279E+07										
4,4'-DDT	0.25	3.854369E+07										
Endrin aldehyde	0.25	3.123377E+07										
Methoxychlor	0.25	1.701215E+07										
Mirex	0.25	3.14138E+07										
Endosulfan sulfate	0.25	3.542434E+07										
Endrin ketone	0.25	4.464376E+07										
alpha-BHC [2C]	0.25	6.246912E+07										
gamma-BHC [2C]	0.25	5.609892E+07										
beta-BHC [2C]	0.25	2.228029E+07										
delta-BHC [2C]	0.25	5.0997E+07										
Heptachlor [2C]	0.25	4.222564E+07										
Aldrin [2C]	0.25	5.080468E+07										
Isodrin [2C]	0.25	4.906164E+07										
Heptachlor epoxide [2C]	0.25	4.33574E+07										
Chlordane-gamma [2C]	0.25	4.604336E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Calibration: 0703005
Instrument: JSVGCECD2
Matrix: Soil
Calibration Date: 03/01/07 12:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Chlordane-alpha [2C]	0.25	4.289284E+07										
4,4'-DDE [2C]	0.25	4.602472E+07										
Endosulfan I [2C]	0.25	4.00536E+07										
Dieldrin [2C]	0.25	4.51736E+07										
Endrin [2C]	0.25	3.688044E+07										
4,4'-DDD [2C]	0.25	3.953169E+07										
Endosulfan II [2C]	0.25	3.766687E+07										
4,4'-DDT [2C]	0.25	3.481366E+07										
Endrin aldehyde [2C]	0.25	2.791914E+07										
Methoxychlor [2C]	0.25	1.522342E+07										
Mirex [2C]	0.25	2.73207E+07										
Endosulfan sulfate [2C]	0.25	3.192648E+07										
Endrin ketone [2C]	0.25	4.02832E+07										
2,4,5,6-TCMX	0.25	4.723768E+07										
2,4,5,6-TCMX [2C]	0.25	3.994948E+07										
DBC	0.25	3.703375E+07										
DBC [2C]	0.25	3.278951E+07										

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0703005	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	03/01/07 12:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
alpha-BHC	6.464446E+07	18.30895	7.853278	1.567057E-02			20.4	
gamma-BHC	5.804705E+07	16.95896	8.458302	8.360265E-03			20.4	
beta-BHC	2.383193E+07	8.415742	8.642831	6.295003E-03			20.4	
delta-BHC	5.105754E+07	20.74855	8.946087	3.469959E-03	0.9968314		0.99	
Heptachlor	4.485805E+07	15.49079	9.295715	1.090292E-02			20.4	
Aldrin	5.549349E+07	13.65315	9.796349	1.469063E-02			20.4	
Isodrin	5.568163E+07	9.029071	10.34009	8.75688E-03			20.4	
Heptachlor epoxide	4.864549E+07	8.114774	10.78856	5.282156E-03			20.4	
Chlordane-gamma	4.811663E+07	12.45743	10.97888	1.478291E-02			20.4	
Chlordane-alpha	4.600252E+07	11.2552	11.18245	1.066674E-02			20.4	
4,4'-DDE	4.824241E+07	13.35855	11.31795	8.54927E-03			20.4	
Endosulfan I	4.47688E+07	8.838537	11.38706	1.331285E-02			20.4	
Dieldrin	4.659911E+07	12.25633	11.74955	7.96035E-03			20.4	
Endrin	3.904473E+07	11.56592	12.09409	1.086875E-02			20.4	
4,4'-DDD	3.880568E+07	15.33373	12.20803	5.869422E-03			20.4	
Endosulfan II	3.952801E+07	9.20322	12.42659	5.875771E-03			20.4	
4,4'-DDT	3.113115E+07	19.31206	12.61188	6.550197E-03			20.4	
Endrin aldehyde	2.870773E+07	8.773468	13.04477	8.09844E-03			20.4	
Methoxychlor	1.545328E+07	8.75569	13.31989	3.981606E-03			20.4	
Mirex	3.076861E+07	5.805778	13.49411	1.513388E-02			20.4	
Endosulfan sulfate	3.204563E+07	9.678879	13.67599	1.205014E-02			20.4	
Endrin ketone	4.015029E+07	10.80262	14.07093	6.747438E-03			20.4	
alpha-BHC [2C]	5.384697E+07	18.70831	7.846987	1.766429E-02			20.4	
gamma-BHC [2C]	4.836405E+07	17.19375	8.505742	4.606524E-03			20.4	
beta-BHC [2C]	2.000077E+07	9.779262	8.683772	1.264702E-02			20.4	
delta-BHC [2C]	4.151594E+07	21.66796	9.175661	1.889847E-02	0.996937		0.99	
Heptachlor [2C]	3.484764E+07	19.17427	9.246439	1.286873E-02			20.4	
Aldrin [2C]	4.54976E+07	14.71217	9.767971	8.101828E-03			20.4	
Isodrin [2C]	4.693538E+07	9.965538	10.39215	9.091407E-03			20.4	
Heptachlor epoxide [2C]	4.172478E+07	8.911483	10.68191	9.543842E-03			20.4	
Chlordane-gamma [2C]	4.1051E+07	12.76971	10.97383	1.185262E-02			20.4	
Chlordane-alpha [2C]	3.893921E+07	10.94769	11.1942	5.615891E-03			20.4	

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0703005
Lab File ID:	9CPA019	Calibration Date:	03/01/07 12:00
Sequence:	BA00457	Injection Date:	03/21/07
Lab Sample ID:	BA00457-CCV2	Injection Time:	18:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	6.464446E+07	6.87119E+07		6.3	20
gamma-BHC	A	0.100	0.10	5.804705E+07	6.0623E+07		4.4	20
beta-BHC	A	0.100	0.097	2.383193E+07	2.30121E+07		-3.4	20
delta-BHC	L	0.100	0.091	5.105754E+07	5.5313E+07		-8.6	20
Heptachlor	A	0.100	0.11	4.485805E+07	4.77543E+07		6.5	20
Aldrin	A	0.100	0.10	5.549349E+07	5.62931E+07		1.4	20
Heptachlor epoxide	A	0.100	0.097	4.864549E+07	4.70068E+07		-3.4	20
Chlordane-gamma	A	0.100	0.10	4.811663E+07	5.0502E+07		5.0	20
Chlordane-alpha	A	0.100	0.11	4.600252E+07	4.83476E+07		5.1	20
4,4'-DDE	A	0.100	0.10	4.824241E+07	4.8111E+07		-0.3	20
Endosulfan I	A	0.100	0.098	4.47688E+07	4.38545E+07		-2.0	20
Dieldrin	A	0.100	0.10	4.659911E+07	4.6686E+07		0.2	20
Endrin	A	0.100	0.10	3.904473E+07	3.94001E+07		0.9	20
4,4'-DDD	A	0.100	0.10	3.880568E+07	3.97932E+07		2.5	20
Endosulfan II	A	0.100	0.099	3.952801E+07	3.90916E+07		-1.1	20
4,4'-DDT	A	0.100	0.10	3.113115E+07	3.1256E+07		0.4	20
Endrin aldehyde	A	0.100	0.099	2.870773E+07	2.85546E+07		-0.5	20
Methoxychlor	A	0.100	0.096	1.545328E+07	1.4767E+07		-4.4	20
Endosulfan sulfate	A	0.100	0.10	3.204563E+07	3.24406E+07		1.2	20
Endrin ketone	A	0.100	0.10	4.015029E+07	4.02856E+07		0.3	20
alpha-BHC [2C]	A	0.100	0.11	5.384697E+07	5.71239E+07		6.1	20
gamma-BHC [2C]	A	0.100	0.11	4.836405E+07	5.08068E+07		5.1	20
beta-BHC [2C]	A	0.100	0.098	2.000077E+07	1.95698E+07		-2.2	20
delta-BHC [2C]	L	0.100	0.093	4.151594E+07	4.55758E+07		-7.2	20
Heptachlor [2C]	A	0.100	0.11	3.484764E+07	3.86878E+07		11.0	20
Aldrin [2C]	A	0.100	0.10	4.54976E+07	4.67747E+07		2.8	20
Heptachlor epoxide [2C]	A	0.100	0.097	4.172478E+07	4.06563E+07		-2.6	20
Chlordane-gamma [2C]	A	0.100	0.11	4.1051E+07	4.35357E+07		6.1	20
Chlordane-alpha [2C]	A	0.100	0.11	3.893921E+07	4.11E+07		5.5	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0703005
Lab File ID:	9CPB019	Calibration Date:	03/01/07 12:00
Sequence:	BA00457	Injection Date:	03/21/07
Lab Sample ID:	BA00457-CCV2	Injection Time:	18:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.10	4.02965E+07	4.09943E+07		1.7	20
Endosulfan I [2C]	A	0.100	0.099	3.781883E+07	3.75448E+07		-0.7	20
Dieldrin [2C]	A	0.100	0.10	4.109473E+07	4.20278E+07		2.3	20
Endrin [2C]	A	0.100	0.10	3.361927E+07	3.45436E+07		2.7	20
4,4'-DDD [2C]	A	0.100	0.10	3.413488E+07	3.54846E+07		4.0	20
Endosulfan II [2C]	A	0.100	0.10	3.528255E+07	3.51222E+07		-0.5	20
4,4'-DDT [2C]	A	0.100	0.086	2.839445E+07	2.86059E+07		0.7	20
Endrin aldehyde [2C]	A	0.100	0.10	2.559756E+07	2.56368E+07		0.2	20
Methoxychlor [2C]	A	0.100	0.096	1.418626E+07	1.35982E+07		-4.1	20
Endosulfan sulfate [2C]	A	0.100	0.10	2.941459E+07	2.99133E+07		1.7	20
Endrin ketone [2C]	A	0.100	0.10	3.715718E+07	3.72249E+07		0.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION DATA (Continued)

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Calibration:	0703005	Instrument:	JSVGCECD2
Matrix:	Soil	Calibration Date:	03/01/07 12:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDE [2C]	4.02965E+07	15.08461	11.47275	6.255564E-03			20.4	
Endosulfan I [2C]	3.781883E+07	9.597487	11.2663	1.192407E-02			20.4	
Dieldrin [2C]	4.109473E+07	13.47976	11.67287	1.745912E-02			20.4	
Endrin [2C]	3.361927E+07	12.65626	12.12029	5.802273E-03			20.4	
4,4'-DDD [2C]	3.413488E+07	16.38682	12.31732	1.953199E-03			20.4	
Endosulfan II [2C]	3.528255E+07	9.757118	12.43006	1.597077E-03			20.4	
4,4'-DDT [2C]	2.839445E+07	20.283	12.76459	7.877615E-03			20.4	
Endrin aldehyde [2C]	2.559756E+07	10.14967	12.92114	1.144282E-02			20.4	
Methoxychlor [2C]	1.418626E+07	8.175524	13.76113	6.473616E-03			20.4	
Mirex [2C]	2.716001E+07	5.903931	14.0047	1.193216E-02			20.4	
Endosulfan sulfate [2C]	2.941459E+07	9.863741	13.31889	1.402236E-02			20.4	
Endrin ketone [2C]	3.715718E+07	10.39427	14.0714	8.153404E-03			20.4	
2,4,5,6-TCMX	4.194077E+07	11.09951	6.670759	2.402672E-02			20.4	
2,4,5,6-TCMX [2C]	3.605387E+07	11.3391	6.574225	2.051927E-02			20.4	
DBC	3.310242E+07	10.56549	13.93769	9.113852E-03			20.4	
DBC [2C]	2.991632E+07	10.53564	13.90026	1.251137E-02			20.4	

CONTINUING CALIBRATION CHECK
EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0703005
Lab File ID:	9CPA011	Calibration Date:	03/01/07 12:00
Sequence:	BA00457	Injection Date:	03/21/07
Lab Sample ID:	BA00457-CCV1	Injection Time:	14:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
alpha-BHC	A	0.100	0.11	6.464446E+07	6.81482E+07		5.4	20
gamma-BHC	A	0.100	0.10	5.804705E+07	6.04235E+07		4.1	20
beta-BHC	A	0.100	0.096	2.383193E+07	2.27899E+07		-4.4	20
delta-BHC	L	0.100	0.090	5.105754E+07	5.43153E+07		-10.2	20
Heptachlor	A	0.100	0.10	4.485805E+07	4.69514E+07		4.7	20
Aldrin	A	0.100	0.10	5.549349E+07	5.63443E+07		1.5	20
Heptachlor epoxide	A	0.100	0.097	4.864549E+07	4.73707E+07		-2.6	20
Chlordane-gamma	A	0.100	0.11	4.811663E+07	5.08483E+07		5.7	20
Chlordane-alpha	A	0.100	0.11	4.600252E+07	4.89591E+07		6.4	20
4,4'-DDE	A	0.100	0.10	4.824241E+07	4.86034E+07		0.7	20
Endosulfan I	A	0.100	0.10	4.47688E+07	4.47445E+07		-0.05	20
Dieldrin	A	0.100	0.10	4.659911E+07	4.74538E+07		1.8	20
Endrin	A	0.100	0.10	3.904473E+07	3.89979E+07		-0.1	20
4,4'-DDD	A	0.100	0.10	3.880568E+07	3.98262E+07		2.6	20
Endosulfan II	A	0.100	0.10	3.952801E+07	3.96296E+07		0.3	20
4,4'-DDT	A	0.100	0.10	3.113115E+07	3.17694E+07		2.1	20
Endrin aldehyde	A	0.100	0.10	2.870773E+07	2.93189E+07		2.1	20
Methoxychlor	A	0.100	0.095	1.545328E+07	1.47477E+07		-4.6	20
Endosulfan sulfate	A	0.100	0.10	3.204563E+07	3.26353E+07		1.8	20
Endrin ketone	A	0.100	0.10	4.015029E+07	4.06721E+07		1.3	20
alpha-BHC [2C]	A	0.100	0.11	5.384697E+07	5.719E+07		6.2	20
gamma-BHC [2C]	A	0.100	0.11	4.836405E+07	5.10028E+07		5.5	20
beta-BHC [2C]	A	0.100	0.098	2.000077E+07	1.95585E+07		-2.2	20
delta-BHC [2C]	L	0.100	0.092	4.151594E+07	4.51397E+07		-8.0	20
Heptachlor [2C]	A	0.100	0.11	3.484764E+07	3.80757E+07		9.3	20
Aldrin [2C]	A	0.100	0.10	4.54976E+07	4.72958E+07		4.0	20
Heptachlor epoxide [2C]	A	0.100	0.099	4.172478E+07	4.13647E+07		-0.9	20
Chlordane-gamma [2C]	A	0.100	0.11	4.1051E+07	4.42712E+07		7.8	20
Chlordane-alpha [2C]	A	0.100	0.11	3.893921E+07	4.25468E+07		9.3	20

CONTINUING CALIBRATION CHECK

EPA 8081A

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Instrument ID:	JSVGCECD2	Calibration:	0703005
Lab File ID:	9CPB011	Calibration Date:	03/01/07 12:00
Sequence:	BA00457	Injection Date:	03/21/07
Lab Sample ID:	BA00457-CCV1	Injection Time:	14:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDE [2C]	A	0.100	0.10	4.02965E+07	4.18975E+07		4.0	20
Endosulfan I [2C]	A	0.100	0.10	3.781883E+07	3.91705E+07		3.6	20
Dieldrin [2C]	A	0.100	0.10	4.109473E+07	4.30481E+07		4.8	20
Endrin [2C]	A	0.100	0.10	3.361927E+07	3.43983E+07		2.3	20
4,4'-DDD [2C]	A	0.100	0.11	3.413488E+07	3.5953E+07		5.3	20
Endosulfan II [2C]	A	0.100	0.10	3.528255E+07	3.60421E+07		2.2	20
4,4'-DDT [2C]	A	0.100	0.088	2.839445E+07	2.93435E+07		3.3	20
Endrin aldehyde [2C]	A	0.100	0.11	2.559756E+07	2.68866E+07		5.0	20
Methoxychlor [2C]	A	0.100	0.096	1.418626E+07	1.36811E+07		-3.6	20
Endosulfan sulfate [2C]	A	0.100	0.10	2.941459E+07	3.03325E+07		3.1	20
Endrin ketone [2C]	A	0.100	0.10	3.715718E+07	3.81482E+07		2.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

DUAL COLUMN CONFIRMATION SUMMARY

JAX47-SB118-01-03 07

Laboratory:	ENCO Jacksonville			SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)			Project:	NAS Jacksonville, CTO 047
Matrix:	Soil	Laboratory ID:	B702385-01	File ID:	9CPA016
Sampled:	03/13/07 11:09	Prepared:	03/19/07 15:34	Analyzed:	03/21/07 16:53
Solids:	91.08	Preparation:	EPA 3545	Instrument:	JSVGCECD2
Batch:	7C19019	Sequence:	BA00457		
GC Column(1):	STX-CLpesticide1, Length:			GC Column(2):	STX-CLpesticide2 , Length: 30m.32id, .50DF

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
delta-BHC	* 1	8.94521	8.946087	0.000877		0.0022	9.52
4,4'-DDE	* 1	11.31776	11.31795	0.00019		0.00037	160
Dieldrin	* 1	11.74786	11.74955	0.00169		0.0019	37.5
4,4'-DDT	* 1	12.61166	12.61188	0.00022		0.00033	156
delta-BHC	2	9.179376	9.175661	0.00371		0.0020	9.52
4,4'-DDE	2	11.43431	11.47275	0.0384		0.0033	160
Dieldrin	2	11.67293	11.67287	0.00006		0.0013	37.5
4,4'-DDT	2	12.76002	12.76459	0.00457		0.0027	156
2,4,5,6-TCMX	* 1	6.673794	6.670759	0.00303		0.028	3.51
2,4,5,6-TCMX	2	6.577809	6.574225	0.00358		0.029	3.51
DBC	* 1	13.93734	13.93769	0.00035		0.026	0
DBC	2	13.9009	13.90026	0.00064		0.026	0

* Column used for quantitation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. PETERSON** **DATE:** **APRIL 13, 2007**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
CTO – 047 NAS JACKSONVILLE
SAMPLE DELIVERY GROUP (SDG) – BR006-021

SAMPLES: 9/Soils/

JAX47-SB114-01-030907
JAX47-SB115-01-030907
JAX47-SB116-01-030907
JAX47-SB119-01-030907
JAX47-SB120-01-030907
JAX47-SB114-05-030907
JAX47-SB115-05-030907
JAX47-SB117-01-030907
JAX47-SB119-05-030907

Overview

The sample set for CTO 047, NAS Jacksonville, SDG BR006-021, consists of nine (9) soil environmental samples. No field duplicate pairs are included within this SDG.

All samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS on March 9, 2007 and analyzed by Environmental Conservation Laboratories, Inc under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Arsenic analyses were conducted using SW-846 method 6010.

Metals analyses were conducted using Inductively Coupled Plasma (ICP) instrumentation.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Verification Results
* • Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike/Matrix Spike Duplicate Results
* • Laboratory Control Sample/ Laboratory Control Sample Duplicate Results
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Notes

Sample JAX47-SB116-01-030907 was analyzed at a 10X dilution due to calcium interference according to the laboratory.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004 and the DOD document entitled "Quality System Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DOD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O - Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00497

SDG: BR006-021 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB114-01-030907	nsample	JAX47-SB114-05-030907	nsample	JAX47-SB115-01-030907
samp_date	3/9/2007	samp_date	3/9/2007	samp_date	3/9/2007
lab_id	B702285-01	lab_id	B702285-02	lab_id	B702285-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	96.0	Pct_Solids	82.7	Pct_Solids	94.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.5		

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.9		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

PROJ_NO: 00497

SDG: BR006-021 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB115-05-030907	nsample	JAX47-SB116-01-030907	nsample	JAX47-SB117-01-030907
samp_date	3/9/2007	samp_date	3/9/2007	samp_date	3/9/2007
lab_id	B702285-04	lab_id	B702285-05RE1	lab_id	B702285-06RE1
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	78.7	Pct_Solids	93.0	Pct_Solids	76.9
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3	U	

PROJ_NO: 00497

SDG: BR006-021 MEDIA: SOIL DATA FRACTION: M

nsample	JAX47-SB119-01-030907	nsample	JAX47-SB119-05-030907	nsample	JAX47-SB120-01-030907
samp_date	3/9/2007	samp_date	3/9/2007	samp_date	3/9/2007
lab_id	B702285-07RE1	lab_id	B702285-08RE1	lab_id	B702285-09RE1
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	94.2	Pct_Solids	84.5	Pct_Solids	94.2
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.3		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.2	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB114-01-030907

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Laboratory ID: B702285-01
File ID: 031507a-091
Sampled: 03/09/07 00:00
Prepared: 03/13/07 05:51
Analyzed: 03/15/07 20:36
Solids: 95.96
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 7C13002
Sequence: BA00433
Calibration: 0703008
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	0.5	1	I	0.2	0.5	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB114-05-030907

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Laboratory ID: B702285-02
File ID: 031507a-092
Sampled: 03/09/07 00:00
Prepared: 03/13/07 05:51
Analyzed: 03/15/07 20:43
Solids: 82.68
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 7C13002
Sequence: BA00433
Calibration: 0703008
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	3.9	1		0.2	0.6	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB115-01-030907

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Laboratory ID: B702285-03
File ID: 031507a-093
Sampled: 03/09/07 00:00
Prepared: 03/13/07 05:51
Analyzed: 03/15/07 20:49
Solids: 94.34
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 7C13002
Sequence: BA00433
Calibration: 0703008
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	0.2	1	U	0.2	0.5	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB115-05-030907

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Laboratory ID: B702285-04
File ID: 031507a-094
Sampled: 03/09/07 00:00
Prepared: 03/13/07 05:51
Analyzed: 03/15/07 20:57
Solids: 78.72
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 7C13002
Sequence: BA00433
Calibration: 0703008
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	0.3	1	U	0.3	0.6	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB116-01-030907

Laboratory: ENCO Jacksonville | SDG: BR006-021

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Soil | Laboratory ID: B702285-05RE1 | File ID: 031507a-066

Sampled: 03/09/07 00:00 | Prepared: 03/13/07 05:45 | Analyzed: 03/15/07 17:32

Solids: 93.01 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 7C13001 | Sequence: BA00433 | Calibration: 0703008 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	2.2	10	UD	2.2	5.4	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB117-01-030907

Laboratory: ENCO Jacksonville | SDG: BR006-021

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Soil | Laboratory ID: B702285-06RE1 | File ID: 041007b-010

Sampled: 03/09/07 00:00 | Prepared: 03/13/07 09:55 | Analyzed: 04/10/07 16:56

Solids: 76.87 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 7C13013 | Sequence: BA00540 | Calibration: 0704003 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	0.3	1	U	0.3	0.7	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB119-01-030907

Laboratory: ENCO Jacksonville
SDG: BR006-021
Client: Tetra Tech NUS (BR006)
Project: NAS Jacksonville, CTO 047
Matrix: Soil
Laboratory ID: B702285-07RE1
File ID: 041007b-011
Sampled: 03/09/07 00:00
Prepared: 03/13/07 09:55
Analyzed: 04/10/07 17:03
Solids: 94.17
Preparation: EPA 3050B
Initial/Final: 1 g / 50 mL
Batch: 7C13013
Sequence: BA00540
Calibration: 0704003
Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	0.3	1	I	0.2	0.5	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB119-05-030907

Laboratory: ENCO Jacksonville | SDG: BR006-021

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Soil | Laboratory ID: B702285-08RE1 | File ID: 041007b-012

Sampled: 03/09/07 00:00 | Prepared: 03/13/07 09:55 | Analyzed: 04/10/07 17:11

Solids: 84.47 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 7C13013 | Sequence: BA00540 | Calibration: 0704003 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	0.2	1	U	0.2	0.6	EPA 6010B

INORGANIC ANALYSIS DATA SHEET
EPA 6010B

JAX47-SB120-01-030907

Laboratory: ENCO Jacksonville | SDG: BR006-021

Client: Tetra Tech NUS (BR006) | Project: NAS Jacksonville, CTO 047

Matrix: Soil | Laboratory ID: B702285-09RE1 | File ID: 041007b-013

Sampled: 03/09/07 00:00 | Prepared: 03/13/07 09:55 | Analyzed: 04/10/07 17:18

Solids: 94.22 | Preparation: EPA 3050B | Initial/Final: 1 g / 50 mL

Batch: 7C13013 | Sequence: BA00540 | Calibration: 0704003 | Instrument: JMICP1

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	MDL	MRL	Method
7440-38-2	Arsenic	0.2	1	U	0.2	0.5	EPA 6010B

APPENDIX C
SUPPORT DOCUMENTATION

Volatiles

Method: Samples were received into the laboratory in satisfactory condition. The samples were analyzed by SW846 Method 8260B.

Comments: The analyses for these samples were completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- Xylenes and Toluene were detected in the method blank, JAX47-MW29S-030907, JAX47-MW30S-030907 and JAX47-MW31D-030907 at a concentration above the Method Detection Limit but below the Method Reporting Limit. The sample results for these compounds at or below the MRL should be considered estimated.

- Matrix Spike, Matrix Spike Duplicate and Laboratory Control Standard was outside the (below) DoD QSM control limits for Bromomethane. This appears to be a random problem that illustrates an instrument problem during this particular analysis run. This appears to be a co-elution of water with Bromomethane at that retention time. System maintenance did not correct this problem however it is being actively addressed.

- Matrix Spike ID 7C22012-MS1 was outside the DoD QSM control limits for 1,2 Dibromoethane and 1,2 Dichlorobenzene. Reportable data was achieved from passing Laboratory Control Standard within the DoD QSM control limits.

- The percent RPD for the Matrix Spike and Matrix Spike Duplicate was outside the DoD QSM control limits for Methylene Chloride. Reportable data was achieved from passing Laboratory Control Standard within the DoD QSM control limits.

- Continuing Calibration Standard BA00467-CCV1 was outside (above) the DoD QSM control limits for 1,2,4-Trichlorobenzene. Samples did not have any positive results for this compound.

Metals

Method: The samples were extracted by USEPA Method 3050 and analyzed by EPA Method 6010.

Comments: The analyses for these samples were satisfactorily completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- JAX47-SB116-01-030907 was analyzed at a 1:10 dilution due to calcium interference in the original run. The original data is included.

- The low concentration calibration verification standard BA00429-001 did not meet the DoD QSM control limits. Several samples were re-analyzed and reported under passing DoD QSM control limits. The sample ID's affected were JAX47-SB117-01-030907, JAX47-SB119-01-030907, JAX47-SB119-05-030907, JAX47-SB120-01-030907 and JAX47-SB121-01-030907.

- Samples were analyzed in two separate analytical batches resulting in the Matrix Spike and Matrix Spike Duplicate for batch 7C13002 being analyzed on an alternative sample not related to this project.

Semi-Volatiles

Method: Samples were received into the laboratory in satisfactory condition. The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8081c.

Comments: The analyses for these samples were satisfactorily completed within method holding time and met the corresponding specifications with the following note/exceptions:

- Low level positive recovery for Delta-BHC was detected in the laboratory method blank and JAX47-SB118-01-0307. Sample results for this compound should be considered estimated.

Method: Samples were received into the laboratory in satisfactory condition. The samples were extracted and analyzed by USEPA SW-846 Methods 3545/8270c.

Comments: The analyses for these samples were completed within method holding time and met the corresponding specifications with the following notes/exceptions:

- Surrogate recovery for 2-Flurophenol and Phenol-5 on samples JAX47-SB118-01-0307 and JAX47-SB118-03-0307 were outside (above) DoD QSM control. Samples were clean and data was accepted.
- Matrix Spike and Matrix Spike Duplicate were outside (above) the DoD QSM control limits for n-nitrosodiphenylamine and 3,3 dichlorobenzidine. Samples within this batch were non-detect for those specific compounds.
- Continuing Calibration Check Standard for 2,4 dinitrophenol and 2-Methyl-4,6 dintrophenol was outside (above) the DoD QSM control limits. There was no detectible compound in the samples following this continuing calibration check.
- Initial Calibration Standard was above DoD QSM control limits for 2-methylphenol, pentachlorophenol, benzidine, Bis(2-ethylhexyl) phthalate. Samples were clean for those compounds and data was accepted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:

Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.04.11 18:52:57 -07'00'

Christina M. Tompkins
Project Manager

HOLDTIME

SDG BR006-021

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	JAX47-SB114-05-030907	B702285-02	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
M	MG/KG	JAX47-SB115-01-030907	B702285-03	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
M	MG/KG	JAX47-SB115-05-030907	B702285-04	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
M	MG/KG	JAX47-SB116-01-030907	B702285-05RE1	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
M	MG/KG	JAX47-SB117-01-030907	B702285-06	NM	3/9/2007	3/13/2007	3/14/2007	4	1	5
M	MG/KG	JAX47-SB117-01-030907	B702285-06RE1	NM	3/9/2007	3/13/2007	4/10/2007	4	28	32
M	MG/KG	JAX47-SB119-01-030907	B702285-07	NM	3/9/2007	3/13/2007	3/14/2007	4	1	5
M	MG/KG	JAX47-SB119-01-030907	B702285-07RE1	NM	3/9/2007	3/13/2007	4/10/2007	4	28	32
M	MG/KG	JAX47-SB119-05-030907	B702285-08	NM	3/9/2007	3/13/2007	3/14/2007	4	1	5
M	MG/KG	JAX47-SB119-05-030907	B702285-08RE1	NM	3/9/2007	3/13/2007	4/10/2007	4	28	32
M	MG/KG	JAX47-SB120-01-030907	B702285-09	NM	3/9/2007	3/13/2007	3/14/2007	4	1	5
M	MG/KG	JAX47-SB120-01-030907	B702285-09RE1	NM	3/9/2007	3/13/2007	4/10/2007	4	28	32
M	MG/KG	JAX47-SB114-01-030907	B702285-01	NM	3/9/2007	3/13/2007	3/15/2007	4	2	6
OS	%	JAX47-SB118-03-03 07	B702385-02	NM	3/13/2007	3/19/2007	3/22/2007	6	3	9
OS	%	JAX47-SB118-01-03 07	B702385-01	NM	3/13/2007	3/19/2007	3/22/2007	6	3	9

B702192 / B702285

TETRA TECH NUS, INC. CHAIN OF CUSTODY NUMBER 2548 PAGE 1 OF 1

PROJECT NO: 112G00047
FACILITY: NAS Jax PSC 47
PROJECT MANAGER: Mark Peterson
PHONE NUMBER: 904-636-6125
LABORATORY NAME AND CONTACT: ENCO
SAMPLERS (SIGNATURE): [signature]
FIELD OPERATIONS LEADER: Chuck Metz
PHONE NUMBER: 904-636-6125
ADDRESS:
CARRIER/WAYBILL NUMBER: Drop Off
CITY, STATE: Jacksonville, FL

STANDARD TAT ☒ 21 Days
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G / G / G / P / / G / G
PRESERVATIVE USED: — / — / HCl / HNO3 / / — / —

TYPE OF ANALYSIS: 8081A - TCL Pest / 8270C TCL SVOC Extended / 8260B TCL VOC / 6010B (As) / 8081A - TCL Pest - Soil / 6010B (As) - Soil

DATE YEAR 2007	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	8081A	8270C	8260B	6010B	8081A Soil	6010B Soil	COMMENTS
3-9	1110	JAX47-MW-25S-030907		—	—	GW	G	6	✓	✓	✓	✓			
↓	1250	-MW-30- ↓				GW	G	6	✓	✓	✓	✓			
	1450	↓ -MW-31D- ↓		—	—	GW	G	17	✓	✓	✓	✓			* MS/MSD
		JAX47-SB114-01-030907		0	1	SO	G	1					✓		
		SB114-05		4.5	5			1					✓		
		SB115-01		0	1			1					✓		
		SB115-05		4.5	5			1					✓		
		SB116-01		0	1			1					✓		
		SB117-01		0	1			1					✓		
		SB119-01		0	1			1					✓		Locked Temp C
		SB119-05		4	5		4	4					✓	*	on ice
		SB120-01		0	1			1					✓		
↓		SB121-01 ↓		0	1	↓	↓	1						✓	

1. RELINQUISHED BY: Chuck Metz	DATE: 3-9-07	TIME:	1. RECEIVED BY: [signature]	DATE: 3-9-07	TIME: 1523
2. RELINQUISHED BY:	DATE:	TIME:	2. RECEIVED BY:	DATE:	TIME:
3. RELINQUISHED BY:	DATE:	TIME:	3. RECEIVED BY: Beth Sansone	DATE: 3/9/07	TIME: 15:23

COMMENTS:

Prepared: 13-Mar-07 09:55	7C13013	Printed: 3/13/07 10:05:17AM

ENCO Jacksonville

Matrix: Soil

Prepared using: METALS - EPA 3050B

Sample ID	Sample ID . Source Sample and Location	AMT DIGESTED mL g L	Final Vol (mL)	Due Date	Spike Amount uL 1 | 2	Comments
7C13013-BLK1	Blank	1	50		|	
7C13013-BS1	LCS	1	50		500 | 500	
7C13013-MS1	Matrix Spike	1.00			500 | 500	
7C13013-MSD1	Matrix Spike Dup	1.00			500 | 500	
B701358-21RE1	P-7 (6') E[E12]	1.00		16-Mar-07	ENSR Corporation (EN074)	From 7C08021 by ACV on 13-Mar-07
B702000-01RE1	MC-1 E[E11]	1.00		19-Mar-07	Universal Engineering Sciences, Inc (UN006)	From 7C08021 by ACV on 13-Mar-07
B702000-02RE1	MC-2 E[E11]	1.00		19-Mar-07	Universal Engineering Sciences Inc (UN006)	From 7C08021 by ACV on 13-Mar-07
B702006-01RE1	B-1 (1-2') D[E11]	1.00		19-Mar-07	Ellis & Associates (EL001)	From 7C08021 by ACV on 13-Mar-07
B702006-02RE1	B-6 (1-2') D[E11]	1.00		19-Mar-07	Ellis & Associates (EL001)	From 7C08021 by ACV on 13-Mar-07
B702006-03RE1	B-9 (1-2') D[E11]	1.00		19-Mar-07	Ellis & Associates (EL001)	From 7C08021 by ACV on 13-Mar-07
B702006-04RE1	B-3 (1-2') D[E11]	1.00		19-Mar-07	Ellis & Associates (EL001)	From 7C08021 by ACV on 13-Mar-07
B702143-01RE1	A701350-01 A[C5]	1.00		14-Mar-07	ENCO Orlando	From 7C08021 by ACV on 13-Mar-07
B702193-02RE1	Drums 22,28 50.2 D[S13]	1.00		15-Mar-07	Geovac Environmental Services I GE018)	From 7C08021 by ACV on 13-Mar-07
B702285-06	JAX47-SB117-01-030907 A[E14]	1.00		26-Mar-07	Tetra Tech NUS (BR006)	
B702285-07	JAX47-SB119-01-030907 A[E14]	1.00		26-Mar-07	Tetra Tech NUS (BR006)	
B702285-08	JAX47-SB119-05-030907 D[E14]	1.00		26-Mar-07	Tetra Tech NUS (BR006)	
B702285-09	JAX47-SB120-01-030907 A[E14]	1.00		26-Mar-07	Tetra Tech NUS (BR006)	
B702314-01	2891 A[C5]	1.00		20-Mar-07	Ellis & Associates (EL001)	
B702314-02	2891 A A[C5]	1.00		20-Mar-07	Ellis & Associates (EL001)	
B702314-03	2891 B A[C5]	1.00		20-Mar-07	Ellis & Associates (EL001)	

From 7C08021 on 3/13/2007 by ACV

Standard(s):		
B7A0007	ICP Spike A / QCS-1	500 uL

Standard ID#	Description	Manufacture Lot#

B7A0008	ICP Spike B / QCS-1	500 uL

3-13-07

Prepared By Date

Preparation Reviewed By Date

Prepared: 13-Mar-07 05:45	7C13001	Printed: 3/13/07 8:07:45AM

ENCO Jacksonville

Matrix: Soil

Prepared using: METALS - EPA 3050B

Sample ID	Sample ID , Source Sample and Location		AMT DIGESTED mL g L	Final Vol (mL)	Due Date	Spike Amount uL 1 | 2	Comments
7C13001-BLK1	Blank		1	50		1	
7C13001-BS1	LCS		1	50		500 | 500	
7C13001-MS1	Matrix Spike		1.00			500 | 500	
7C13001-MSD1	Matrix Spike Dup		1.00			500 | 500	
B702129-03	A701371-03	A[C5]	1.00		14-Mar-07	ENCO Orlando	
B702129-04	A701371-04	A[C5]	1.00		14-Mar-07	ENCO Orlando	
B702193-01	Floor Dry	A[C5]	1.00		15-Mar-07	Geovac Environmental Services (GE018)	~~drum~~
B702193-03	Drums 11,17	A[E12]	1.00		15-Mar-07	Geovac Environmental Services (GE018)	Oil
B702193-04	Drums 51,52	A[E12]	1.00		15-Mar-07	Geovac Environmental Services (GE018)	
B702193-06	Drums 16.5,30,23	A[E12]	1.00		15-Mar-07	Geovac Environmental Services (GE018)	
B702193-07	Drums 9,46,53.49	A[E12]	1.00		15-Mar-07	Geovac Environmental Services (GE019)	
B702193-08	Drums 42,45.43,48	A[E12]	1.00		15-Mar-07	Geovac Environmental Services (GE018)	
B702231-01	A701348-03	A[C5]	1.00		15-Mar-07	ENCO Orlando	
B702231-02	A701348-04	A[C5]	1.00		15-Mar-07	ENCO Orlando	
B702234-01	A701266-01	A[C6]	1.00		15-Mar-07	ENCO Orlando	
B702234-02	A701266-02	A[C6]	1.00		15-Mar-07	ENCO Orlando	
B702258-01	A701298-02	A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-02	A701298-03	A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-03	A701298-04	A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-04	A701298-05	A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-05	A701298-06	A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-06	A701298-07	A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702262-01	A701313-01	A[C6]	1.00		13-Mar-07	ENCO Orlando	
B702285-05	JAX47-SB116-01-030907	A[E14]	1.00		26-Mar-07	Tetra Tech NUS (IR006)	

Standard(s):		
B7A0007	ICP Spike A / QCS-1	500 ul.
B7A0008	ICP Spike B / QCS-1	500 ul.

Standard ID#	Description	Manufacture Lot#

3-13-07

Prepared By Date

Preparation Reviewed By Date

Prepared: 13-Mar-07 05:51	7C13002	Printed: 3/13/07 5:54:27AM

ENCO Jacksonville

Matrix: Soil

Prepared using: METALS - EPA 3050B

Sample ID	Sample ID , Source Sample and Location	AMT DIGESTED mL g L	Final Vol (mL)	Due Date	Spike Amount uL 1 | 2	Comments
7C13002-BLK1	Blank	1	50		|	
7C13002-BS1	LCS	1	50		500 | 500	
7C13002-MS1	Matrix Spike SS-1	1.00			500 | 500	
7C13002-MSD1	Matrix Spike Dup SS-1	1.00			500 | 500	
B701959-01	SS-1 E[E14]	1.00		19-Mar-07	ENSR Corporation (EN074)	
B701959-02	SS-2 E[E14]	1.00		19-Mar-07	ENSR Corporation (EN074)	
B701959-03	SS-3 E[E14]	1.00		19-Mar-07	ENSR Corporation (EN074)	
B702258-07	A701298-08 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-08	A701298-09 A[ENCO	1.00		16-Mar-07	ENCO Orlando	
B702258-09	A701298-10 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-10	A701298-11 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-11	A701298-12 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-12	A701298-13 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-13	A701298-14 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-14	A701298-15 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-15	A701298-16 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-16	A701298-17 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-17	A701298-18 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-18	A701298-19 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702258-19	A701298-20 A[E14]	1.00		16-Mar-07	ENCO Orlando	
B702285-01	JAX47-SB114-01-030907 A[E14]	1.00		26-Mar-07	Tetra Tech NUS (BR006)	
B702285-02	JAX47-SB114-05-030907 A[E14]	1.00		26-Mar-07	Tetra Tech NUS (BR006)	
B702285-03	JAX47-SB115-01-030907 A[E14]	1.00		26-Mar-07	Tetra Tech NUS (BR006)	
B702285-04	JAX47-SB115-05-030907 A[E14]	1.00		26-Mar-07	Tetra Tech NUS (BR006)	

Standard(s):		
B7A0007	ICP Spike A / QCS-1	500 uL

Standard ID#	Description	Manufacture

B7A0008	ICP Spike B / QCS-1	500 uL

3-13-07

Prepared By Date Preparation Reviewed By Date

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C13001 Batch Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C13001-BLK1	031407a-038	03/13/07 05:45	
LCS	7C13001-BS1	031407a-039	03/13/07 05:45	
A701371-03	7C13001-MS1	031407a-040	03/13/07 05:45	
A701371-03	7C13001-MSD1	031407a-041	03/13/07 05:45	
JAX47-SB116-01-030907	B702285-05	031407a-084	03/13/07 05:45	
JAX47-SB116-01-030907	B702285-05RE1	031507a-066	03/13/07 05:45	Added 3/15/2007 by ACV

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C13002 Batch Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C13002-BLK1	031407a-134	03/13/07 05:51	
LCS	7C13002-BS1	031407a-135	03/13/07 05:51	
SS-1	7C13002-MS1	031407a-136	03/13/07 05:51	
SS-1	7C13002-MSD1	031407a-140	03/13/07 05:51	
JAX47-SB114-01-030907	B702285-01	031507a-091	03/13/07 05:51	
JAX47-SB114-05-030907	B702285-02	031507a-092	03/13/07 05:51	
JAX47-SB115-01-030907	B702285-03	031507a-093	03/13/07 05:51	
JAX47-SB115-05-030907	B702285-04	031507a-094	03/13/07 05:51	

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: ENCO Jacksonville SDG: BR006-021

Client: Tetra Tech NUS (BR006) Project: NAS Jacksonville, CTO 047

Batch: 7C13013 Batch Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	7C13013-BLK1	031407a-088	03/13/07 09:55	
LCS	7C13013-BS1	031407a-089	03/13/07 09:55	
JAX47-SB117-01-030907	7C13013-MS1	031407a-090	03/13/07 09:55	
JAX47-SB117-01-030907	7C13013-MSD1	031407a-091	03/13/07 09:55	
JAX47-SB117-01-030907	7C13013-PS1	031507a-052	03/13/07 09:55	
JAX47-SB117-01-030907	B702285-06	031407a-104	03/13/07 09:55	
JAX47-SB117-01-030907	B702285-06RE1	041007b-010	03/13/07 09:55	Added 4/10/2007 by ACV
JAX47-SB119-01-030907	B702285-07	031407a-105	03/13/07 09:55	
JAX47-SB119-01-030907	B702285-07RE1	041007b-011	03/13/07 09:55	Added 4/10/2007 by ACV
JAX47-SB119-05-030907	B702285-08	031407a-106	03/13/07 09:55	
JAX47-SB119-05-030907	B702285-08RE1	041007b-012	03/13/07 09:55	Added 4/10/2007 by ACV
JAX47-SB120-01-030907	B702285-09	031407a-107	03/13/07 09:55	
JAX47-SB120-01-030907	B702285-09RE1	041007b-013	03/13/07 09:55	Added 4/10/2007 by ACV

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00429	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0703007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00429-ICB1	031407a-001	03/14/07 10:26
Cal Standard	BA00429-CAL1	031407a-002	03/14/07 10:33
Instrument Blank	BA00429-IBL1	031407a-003	03/14/07 10:45
Low Cal Check	BA00429-LCV1	031407a-004	03/14/07 10:52
Secondary Cal Check	BA00429-SCV1	031407a-005	03/14/07 10:59
Initial Cal Check	BA00429-ICV1	031407a-006	03/14/07 11:06
Interference Check A	BA00429-IFA1	031407a-008	03/14/07 11:19
Calibration Blank	BA00429-CCB1	031407a-021	03/14/07 12:50
Calibration Check	BA00429-CCV1	031407a-022	03/14/07 12:57
Calibration Blank	BA00429-CCB2	031407a-034	03/14/07 14:20
Calibration Check	BA00429-CCV2	031407a-035	03/14/07 14:27
Blank	7C13001-BLK1	031407a-038	03/14/07 14:50
LCS	7C13001-BS1	031407a-039	03/14/07 14:57
A701371-03	7C13001-MS1	031407a-040	03/14/07 15:03
A701371-03	7C13001-MSD1	031407a-041	03/14/07 15:10
Calibration Blank	BA00429-CCB3	031407a-047	03/14/07 15:53
Calibration Check	BA00429-CCV3	031407a-048	03/14/07 16:00
Calibration Blank	BA00429-CCB5	031407a-073	03/14/07 19:00
Calibration Check	BA00429-CCV5	031407a-074	03/14/07 19:07
JAX47-SB116-01-030907	B702285-05	031407a-084	03/14/07 20:18
Calibration Blank	BA00429-CCB6	031407a-086	03/14/07 20:32
Calibration Check	BA00429-CCV6	031407a-087	03/14/07 20:39
Blank	7C13013-BLK1	031407a-088	03/14/07 20:45
LCS	7C13013-BS1	031407a-089	03/14/07 20:52
JAX47-SB117-01-030907	7C13013-MS1	031407a-090	03/14/07 20:59
JAX47-SB117-01-030907	7C13013-MSD1	031407a-091	03/14/07 21:06
Calibration Blank	BA00429-CCB7	031407a-099	03/14/07 22:02
Calibration Check	BA00429-CCV7	031407a-100	03/14/07 22:09
JAX47-SB117-01-030907	B702285-06	031407a-104	03/14/07 22:36
JAX47-SB119-01-030907	B702285-07	031407a-105	03/14/07 22:44
JAX47-SB119-05-030907	B702285-08	031407a-106	03/14/07 22:51
JAX47-SB120-01-030907	B702285-09	031407a-107	03/14/07 22:58

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00429	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0703007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	BA00429-CCB8	031407a-112	03/14/07 23:33
Calibration Check	BA00429-CCV8	031407a-113	03/14/07 23:40
Calibration Blank	BA00429-CCB9	031407a-125	03/15/07 01:09
Calibration Check	BA00429-CCV9	031407a-126	03/15/07 01:16
Blank	7C13002-BLK1	031407a-134	03/15/07 02:16
LCS	7C13002-BS1	031407a-135	03/15/07 02:23
SS-1	7C13002-MS1	031407a-136	03/15/07 02:30
Calibration Blank	BA00429-CCBA	031407a-138	03/15/07 02:43
Calibration Check	BA00429-CCVA	031407a-139	03/15/07 02:50
SS-1	7C13002-MSD1	031407a-140	03/15/07 02:57
Calibration Blank	BA00429-CCBB	031407a-151	03/15/07 04:14
Calibration Check	BA00429-CCVB	031407a-152	03/15/07 04:21
Calibration Blank	BA00429-CCBC	031407a-164	03/15/07 05:46
Calibration Check	BA00429-CCVC	031407a-165	03/15/07 05:53
Interference Check A	BA00429-IFA2	031407a-167	03/15/07 06:07

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00433	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0703008

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00433-ICB1	031507a-001	03/15/07 09:39
Cal Standard	BA00433-CAL1	031507a-002	03/15/07 09:46
Instrument Blank	BA00433-IBL1	031507a-003	03/15/07 09:54
Low Cal Check	BA00433-LCV1	031507a-004	03/15/07 10:01
Secondary Cal Check	BA00433-SCV1	031507a-005	03/15/07 10:08
Initial Cal Check	BA00433-ICV1	031507a-006	03/15/07 10:14
Interference Check A	BA00433-IFA1	031507a-008	03/15/07 10:28
Calibration Blank	BA00433-CCB1	031507a-021	03/15/07 12:01
Calibration Check	BA00433-CCV1	031507a-022	03/15/07 12:08
Calibration Blank	BA00433-CCB3	031507a-047	03/15/07 15:16
Calibration Check	BA00433-CCV3	031507a-048	03/15/07 15:23
JAX47-SB117-01-030907	7C13013-PS1	031507a-052	03/15/07 15:51
Calibration Blank	BA00433-CCB4	031507a-060	03/15/07 16:48
Calibration Check	BA00433-CCV4	031507a-061	03/15/07 16:55
JAX47-SB116-01-030907	B702285-05RE1	031507a-066	03/15/07 17:32
Calibration Blank	BA00433-CCB5	031507a-073	03/15/07 18:24
Calibration Check	BA00433-CCV5	031507a-074	03/15/07 18:31
Calibration Blank	BA00433-CCB6	031507a-086	03/15/07 19:58
Calibration Check	BA00433-CCV6	031507a-087	03/15/07 20:05
JAX47-SB114-01-030907	B702285-01	031507a-091	03/15/07 20:36
JAX47-SB114-05-030907	B702285-02	031507a-092	03/15/07 20:43
JAX47-SB115-01-030907	B702285-03	031507a-093	03/15/07 20:49
JAX47-SB115-05-030907	B702285-04	031507a-094	03/15/07 20:57
Calibration Blank	BA00433-CCB7	031507a-099	03/15/07 21:31
Calibration Check	BA00433-CCV7	031507a-100	03/15/07 21:38
Calibration Blank	BA00433-CCBC	031507a-159	03/16/07 04:38
Calibration Check	BA00433-CCVC	031507a-160	03/16/07 04:45
Interference Check A	BA00433-IFA2	031507a-162	03/16/07 04:58

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	ENCO Jacksonville	SDG:	BR006-021
Client:	Tetra Tech NUS (BR006)	Project:	NAS Jacksonville, CTO 047
Sequence:	BA00540	Instrument:	JMICP1
Matrix:	Soil	Calibration:	0704003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	BA00540-ICB1	041007b-001	04/10/07 15:53
Initial Cal Blank	BA00540-ICB1	041007b-001	04/10/07 15:53
Cal Standard	BA00540-CAL1	041007b-002	04/10/07 16:00
Cal Standard	BA00540-CAL1	041007b-002	04/10/07 16:00
Instrument Blank	BA00540-IBL1	041007b-003	04/10/07 16:07
Instrument Blank	BA00540-IBL1	041007b-003	04/10/07 16:07
Low Cal Check	BA00540-LCV1	041007b-004	04/10/07 16:13
Low Cal Check	BA00540-LCV1	041007b-004	04/10/07 16:13
Initial Cal Check	BA00540-ICV1	041007b-006	04/10/07 16:28
Initial Cal Check	BA00540-ICV1	041007b-006	04/10/07 16:28
Interference Check A	BA00540-IFA1	041007b-008	04/10/07 16:42
Interference Check A	BA00540-IFA1	041007b-008	04/10/07 16:42
JAX47-SB117-01-030907	B702285-06RE1	041007b-010	04/10/07 16:56
JAX47-SB119-01-030907	B702285-07RE1	041007b-011	04/10/07 17:03
JAX47-SB119-05-030907	B702285-08RE1	041007b-012	04/10/07 17:11
JAX47-SB120-01-030907	B702285-09RE1	041007b-013	04/10/07 17:18
Calibration Blank	BA00540-CCB1	041007b-021	04/10/07 18:18
Calibration Blank	BA00540-CCB1	041007b-021	04/10/07 18:18
Calibration Check	BA00540-CCV1	041007b-022	04/10/07 18:26
Calibration Check	BA00540-CCV1	041007b-022	04/10/07 18:26

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT		JOB NUMBER	
NAS Jacksonville			
SUBJECT: Sample calc			
BASED ON		DRAWING NUMBER	
BY: TLS	CHECKED BY	APPROVED BY	DATE: 4-13-07

Sample JAX47-SB114-01-030907

arsenic 0.5 mg/kg

$$\left(\frac{0.0087\ mg}{L}\right)\left(\frac{50\ ml}{1\ g}\right)\left(\frac{1000\ g}{1\ kg}\right)\left(\frac{1\ L}{1000\ ml}\right)\left(\frac{1}{.960}\right) = 0.4531\ \frac{mg}{kg}$$

Zn 206.191	21,624.9	0.5020	0.00237	mg/L	0.5020		0.47 %

2007/03/15 20:09:09 QC value within limits for Zn 206.191 Recovery = 100.39%

Mean Data

ID: b702285-01 **Seq. No.:** 91 **A/S Pos:** 87

Sample Qty: g **Prep. Vol.:** **Dilution:** : **Date:** 2007/03/15 20:38:06

Analyte	Corr. Intensity	Conc (Calib)	Std. Dev.	Calib Units	Conc (Sample)	Std. Dev.	Sample Units	RSD
Y 324.228R	174,437.7	98.5	0.31	%			%	0.31 %
Y361.105A	1,689,243.5	99.9	0.32	%			%	0.32 %
Ag 338.289	-707.5	-0.0004	0.00039	mg/L	-0.0004	0.00039	mg/L	86.77 %
Ag 328.068	-642.3	-0.0014	0.00026	mg/L	-0.0014	0.00026	mg/L	18.05 %
Al 308.215	9,668.3	5.43	0.025	mg/L	5.43	0.025	mg/L	0.47 %
As 188.979	17.1	0.0087	0.00357	mg/L	0.0087	0.00357	mg/L	41.23 %
Ba 233.527	7,181.9	0.0483	0.00033	mg/L	0.0483	0.00033	mg/L	0.67 %
Be 313.107	6,313.2	0.0007	0.00002	mg/L	0.0007	0.00002	mg/L	2.64 %
B 208.959	437.9	0.0345	0.00121	mg/L	0.0345	0.00121	mg/L	3.50 %
Ca 317.933	841,679.0	2.689	0.0015	mg/L	2.689	0.0015	mg/L	0.06 %
Ca Radial	62,909.1	2.706	0.0251	mg/L	2.706	0.0251	mg/L	0.93 %
Cd 226.502	240.4	0.0009	0.00009	mg/L	0.0009	0.00009	mg/L	9.33 %
Co 228.616	57.9	0.0005	0.00040	mg/L	0.0005	0.00040	mg/L	86.06 %
Cr 267.716	3,601.7	0.0210	0.00063	mg/L	0.0210	0.00063	mg/L	2.99 %
Cu 324.754	27,507.9	0.0602	0.00083	mg/L	0.0602	0.00083	mg/L	1.38 %
Fe 273.955	361,052.4	9.146	0.0556	mg/L	9.146	0.0556	mg/L	0.61 %
Fe Radial	12,216.7	9.07	0.041	mg/L	9.07	0.041	mg/L	0.45 %
K 766.491R	1,199.2	0.239	0.0067	mg/L	0.239	0.0067	mg/L	2.81 %
Li 670.781R	382.0	0.002	0.0005	mg/L	0.002	0.0005	mg/L	23.57 %
Mg 279.079R	479.7	0.388	0.0037	mg/L	0.388	0.0037	mg/L	0.96 %

APPENDIX K

SUPPORTING INFORMATION
HUMAN HEALTH RISK ASSESSMENT

K.1 Sample Calculations
K.2 RAGS Part D Tables
K.3 Vapor Intrusion Modeling Outputs

APPENDIX K.1

Sample Calculations

CALCULATION WORKSHEET

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM INCIDENTAL INGESTION OF SOIL FUTURE ON-SITE CHILD RESIDENT		
BASED ON: USEPA, DEC. 1989		
BY: R. JUPIN	**CHECKED BY:**	**DATE:** 04/20/07

PURPOSE: To estimate intake, carcinogenic and noncarcinogenic risks from incidental ingestion of surface/subsurface soil at PSC 47.

EQUATION:

$$IEX = \frac{CS \times IR \times EF \times ED \times FI \times CF}{BW \times AT}$$

Where:

IEX	=	estimated exposure intake (mg/kg/day)
Cs	=	exposure point concentration in soil/sediment (mg/kg)
IR	=	incidental soil ingestion rate (mg/day)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (years)
FI	=	fraction ingested from contaminated source (unitless)
CF	=	conversion factor (1.0E-6 kg/mg)
BW	=	body weight (kg)
AT	=	averaging time (days)
CSFo	=	oral carcinogenic slope factor ($(mg/kg/day)^{-1}$)
RfDo	=	oral noncarcinogenic reference dose (mg/kg/day)

RISKS:

ICLR (Carcinogens) = Intake (mg/kg/day) x CSFo $(mg/kg/day)^{-1}$

HQ (Noncarcinogens) = Intake (mg/kg/day) / RFDo (mg/kg/day)

ASSUMPTIONS:

Cs	=	0.4	mg/kg	Chemical: alpha-Chlordane
IR	=	200	mg/day	
EF	=	350	days/year	
ED	=	6	years	
FI	=	1		
CF	=	1.0E-06	kg/mg	
BW	=	15	kg	
ATc	=	25550	days	
ATnc	=	2190	days	
CSFo	=	3.5E-01	$(mg/kg/day)^{-1}$	
RfDo	=	5.0E-04	(mg/kg/day)	

CLIENT: NAS JACKSONVILLE, FLORIDA		JOB NUMBER: 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM INCIDENTAL INGESTION OF SOIL FUTURE ON-SITE CHILD RESIDENT		
BASED ON: USEPA, DEC. 1989		
BY: R. JUPIN	CHECKED BY:	DATE: 04/20/07

EXAMPLE CARCINOGENIC CALCULATION

$$IEXc = \frac{0.4\ mg/kg \times 200\ mg/day \times 350\ days/year \times 6\ years \times 1.0E\text{-}06\ kg/mg}{15\ kg \times 25550\ days}$$

IEXc = 4.38E-07 mg/kg/day

ICLR = 4.38E-07 mg/kg/day x 3.50E-01 (mg/kg/day)-1 = Incremental Lifetime Cancer Risk

ICLR = 1.5E-07

EXAMPLE NONCARCINOGENIC CALCULATION

$$IEXnc = \frac{0.4\ mg/kg \times 200\ mg/day \times 350\ days/year \times 6\ years \times 1.0E\text{-}06\ kg/mg}{15\ kg \times 2190\ days}$$

IEXnc = 5.11E-06 mg/kg/day

HQ = 5.11E-06 mg/kg/day / 5.00E-04 (mg/kg/day) = Hazard Quotient

HQ = 1.0E-02

CLIENT: NAS JACKSONVILLE, FLORIDA		JOB NUMBER: 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM DERMAL CONTACT WITH SOIL FUTURE ON-SITE CHILD RESIDENT		
BASED ON: USEPA, DEC. 2001		
BY: R. JUPIN	CHECKED BY:	DATE: 04/20/07

PURPOSE: To estimate intake, carcinogenic and noncarcinogenic risks from dermal contact with surface/subsurface soil at PSC 47.

EQUATION:

$$DEX = \frac{Cs \times CF \times SA \times AF \times ABS \times EF \times ED}{BW \times AT}$$

Where:

DEX	=	estimated exposure intake (mg/kg/day)
Cs	=	exposure point concentration in soil/sediment (mg/kg)
CF	=	conversion factor (1.0E-6 kg/mg)
SA	=	skin surface available for contact (cm^2/day)
ABS	=	absorption factor (unitless)
AF	=	adherence factor (mg/cm^2)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (years)
BW	=	body weight (kg)
AT	=	averaging time (days)
CSFd	=	dermal carcinogenic slope factor ($(mg/kg/day)^{-1}$)
RfDd	=	dermal noncarcinogenic reference dose (mg/kg/day)

RISKS:

ICLR (Carcinogens) = Intake (mg/kg/day) x CSFd $(mg/kg/day)^{-1}$
HQ (Noncarcinogens) = Intake (mg/kg/day) / RFDd (mg/kg/day)

ASSUMPTIONS:

Cs	=	0.4	mg/kg	Chemical: alpha-Chlordane
CF	=	1.0E-06	kg/mg	
SA	=	2800	cm^2/day	
AF	=	0.2	mg/cm^2	
ABS	=	0.04		
EF	=	350	days/year	
ED	=	6	years	
BW	=	15	kg	
ATc	=	25550	days	
ATnc	=	2190	days	
CSFd	=	3.5E-01	$(mg/kg/day)^{-1}$	
RfDd	=	5.0E-04	(mg/kg/day)	

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM DERMAL CONTACT WITH SOIL FUTURE ON-SITE CHILD RESIDENT		
BASED ON: USEPA, DEC. 2001		
BY: R. JUPIN	**CHECKED BY:**	**DATE:** 04/20/07

EXAMPLE CARCINOGENIC CALCULATION

$$DEXc = \frac{0.4\ mg/kg \times 1.0E\text{-}06\ kg/mg \times 2800\ cm2/day \times 0.2\ mg/cm2 \times 0.04 \times 350\ days/year \times 6\ years}{15\ kg \times 25550\ days}$$

DEXc = 4.91E-08 mg/kg/day

ICLR = 4.91E-08 mg/kg/day x 3.50E-01 (mg/kg/day)-1 = Incremental Lifetime Cancer Risk

ICLR = 1.7E-08

EXAMPLE NONCARCINOGENIC CALCULATION

$$DEXnc = \frac{0.4\ mg/kg \times 1.0E\text{-}06\ kg/mg \times 2800\ cm2/day \times 0.2\ mg/cm2 \times 0.04 \times 350\ days/year \times 6\ years}{15\ kg \times 2190\ days}$$

DEXnc = 5.73E-07 mg/kg/day

HQ = 5.73E-07 mg/kg/day / 5.00E-04 (mg/kg/day) = Hazard Quotient

HQ = 1.1E-03

CALCULATION WORKSHEET

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM INHALATION OF FUGATIVE DUST EMISSIONS BY CHILD RESIDENTS		
BASED ON: U.S. EPA, DECEMBER 1989		
BY: R. JUPIN	**CHECKED BY:** T. Jupin	**DATE:** 10/18/2006

PURPOSE: To estimate intake, carcinogenic and noncarcinogenic risks from inhalation of fugitive dust and volatiles from subsurface soil.

EQUATION:

$$IEX = \frac{Ca \times IR \times ET \times EF \times ED}{BW \times AT}$$

Where:

IEX	=	estimated exposure intake (mg/kg/day)
Ca	=	exposure point concentration in air (mg/m3)
	=	Cs x 1/PEF
Cs	=	chemical concentration in soil (mg/kg)
PEF	=	particulate emission factor (m3/kg)
IR	=	inhlation rate (m3/hr)
ET	=	exposure time (hrs/day)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (years)
BW	=	body weight (kg)
AT	=	averaging time (days)
CSFi	=	inhalation carcinogenic slope factor ((mg/kg/day)$^{-1}$)
RfDi	=	inhalation noncarcinogenic reference dose (mg/kg/day)

RISKS:

ILCR (Carcinogens) = Intake (mg/kg/day) x CSFi (mg/kg/day)-1
HQ (Noncarcinogens) = Intake (mg/kg/day) / RFDi (mg/kg/day)

ASSUMPTIONS:

Cs	=	4	mg/kg	Chemical: alpha-Chlordane
PEF	=	1.24E+09	m3/kg	
Ca	=	3.23E-09	mg/m3	
IR	=	0.34	m3/hr	
ET	=	24	hr/day	
EF	=	350	days/year	
ED	=	6	years	
BW	=	15	kg	
ATc	=	25550	days	
ATnc	=	2190	days	
CSFi	=	3.5E-01	(mg/kg/day)$^{-1}$	
RfDi	=	2.0E-04	(mg/kg/day)	

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM INHALATION OF FUGATIVE DUST EMISSIONS BY CHILD RESIDENTS		
BASED ON: U.S. EPA, DECEMBER 1989		
BY: R. JUPIN	**CHECKED BY:** T. Jupin	**DATE:** 10/18/2006

EXAMPLE CARCINOGENIC CALCULATION

$$IEXc = \frac{3.23E\text{-}09 \text{ mg/m3} \times 0.34 \text{ m3/hr} \times 24 \text{ hr/day} \times 350 \text{ days/year} \times 6 \text{ years}}{15 \text{ kg} \times 25550 \text{ days}}$$

IEXc = 1.44E-10 mg/kg/day

ILCR = 1.44E-10 mg/kg/day x 3.50E-01 (mg/kg/day)-1 = Incremental Lifetime Cancer Risk

ILCR = 5.1E-11

EXAMPLE NONCARCINOGENIC CALCULATION

$$IEXnc = \frac{3.23E\text{-}09 \text{ mg/m3} \times 0.34 \text{ m3/hr} \times 24 \text{ hr/day} \times 350 \text{ days/year} \times 6 \text{ years}}{15 \text{ kg} \times 2190 \text{ days}}$$

IEXnc = 1.68E-09 mg/kg/day

HQ = 1.68E-09 mg/kg/day / 2.00E-04 (mg/kg/day) = Hazard Quotient

HQ **8.4E-06**

CLIENT:	JOB NUMBER:	
NAS JACKSONVILLE, FLORIDA	0497	
SUBJECT: CALCULATION OF PARTICUALATE EMISSION FACTOR FOR CONSTRUCTION WORKERS		
BASED ON: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (USEPA, December 2002)		
BY: R. JUPIN	CHECKED BY:	DATE: 03/31/2006

Equation 5-5
Derivation of the Particulate Emission Factor
Construction Scenario - Construction Worker

$$PEF_{sc} = Q/C_{sr} \times \frac{1}{F_D} \times \left[\frac{T \times A_R}{556 \times (W/3)^{0.4} \times \frac{(365d/yr - p)}{365d/yr} \times \Sigma VKT} \right]$$

Parameter/Definition (units)	Default
PEF_{sc}/subchronic road particulate emission factor (m^3/kg)	site-specific
Q/C_{sr}/ inverse of the ratio of the 1-h geometric mean air concentration to the emission flux along a straight road segment bisecting a square site (g/m^2-s per kg/m^3)	23.02[a] (Equation 5-6)
F_D/dispersion correction factor (unitless)	0.185 (Appendix E)
T/total time over which construction occurs (s)	site-specific
A_R/surface area of contaminated road segment (m^2) L_R/length of road segment (ft) W_R/width of road segment (ft)	274.213 ($A_R = L_R \times W_R \times 0.092903 m^2/ft^2$)
W/mean vehicle weight (tons)	site-specific
p/number of days with at least 0.01 inches of precipitation (days/year)	site-specific (Exhibit 5-2)
ΣVKT/sum of fleet vehicle kilometers traveled during the exposure duration (km)	site-specific

[a] Assumes a 0.5 acre site

Q/C	23.02	(g/m2-s per kg/m3)	
Fd	0.185	dispersion correction factor (unitless)	
T	4.32E+06	sec	3600 sec/hr x 8hr/day x 150days/yr
Area (A)	274.213	m^2	
W	8	tons	
p	115	day/year	
VKT	175.5	km	
PEF =	**1.49E+06**	**m^3/kg**	

CALCULATION WORKSHEET

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM INGESTION OF GROUNDWATER ADULT RESIDENT		
BASED ON: USEPA, DEC. 1989		
BY: R. JUPIN	**CHECKED BY:** T. Jupin	**DATE:** 04/20/07

PURPOSE: To estimate intake, carcinogenic and noncarcinogenic risks from ingestion of groundwater by an adult resident.

EQUATION:

$$IEX = \frac{Cgw \times CF \times IF \times EF \times ED}{BW \times AT}$$

Where:

IEX	=	estimated exposure intake (mg/kg/day)
Cgw	=	exposure point concentration in groundwater (ug/L)
CF	=	conversion factor (1.0E-3 mg/ug)
IR	=	ingestion rate (L/day)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (years)
BW	=	body weight (kg)
AT	=	averaging time (days)
CSFo	=	oral carcinogenic slope factor ($(mg/kg/day)^{-1}$)
RfDo	=	oral noncarcinogenic reference dose (mg/kg/day)

RISKS:

ICLR (Carcinogens) = Intake (mg/kg/day) x CSFo $(mg/kg/day)^{-1}$
HQ (Noncarcinogens) = Intake (mg/kg/day) / RFDo (mg/kg/day)

ASSUMPTIONS:

Cgw	=	2.58	ug/L	Chemical: Vinyl Chloride
IR	=	2	L/day	
CF	=	1.0E-03	mg/ug	
EF	=	350	days/year	
ED	=	24	years	
BW	=	70	kg	
ATc	=	25550	days	
ATnc	=	8760	days	
CSFo	=	1.5E+00	$(mg/kg/day)^{-1}$	
RfDo	=	3.0E-03	(mg/kg/day)	

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM INGESTION OF GROUNDWATER ADULT RESIDENT		
BASED ON: USEPA, DEC. 1989		
BY: R. JUPIN	**CHECKED BY:** T. Jupin	**DATE:** 04/20/07

EXAMPLE CARCINOGENIC CALCULATION

$$IEXc = \frac{2.58\ ug/L \times 0.001\ mg/ug \times 2\ L/day \times 350\ days/year \times 24\ years}{70\ kg \times 25550\ days}$$

IEXc = 2.42E-05 mg/kg/day

ICLR = 2.42E-05 mg/kg/day x 1.50E+00 (mg/kg/day)-1 = Incremental Lifetime Cancer Risk

ICLR = 3.64E-05

EXAMPLE NONCARCINOGENIC CALCULATION

$$IEXnc = \frac{2.58\ ug/L \times 0.001\ mg/ug \times 2\ L/day \times 350\ days/year \times 24\ years}{70\ kg \times 8760\ days}$$

IEXnc = 7.07E-05 mg/kg/day

$$HQ = \frac{7.07E\text{-}05\ mg/kg/day}{3.00E\text{-}03\ (mg/kg/day)} = \text{Hazard Quotient}$$

HQ = 2.36E-02

CLIENT:		JOB NUMBER:
NAS JACKSONVILLE, FLORIDA		0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM DERMAL CONTACT WITH GROUNDWATER ADULT RESIDENT		
BASED ON: USEPA, DEC. 1989, 2001		
BY: R. JUPIN	CHECKED BY:	DATE: 04/20/07

PURPOSE: To estimate intake, carcinogenic and noncarcinogenic risks from dermal contact with groundwater by an adult resident.

EQUATION:

$$DAD = \frac{DAevent \times EV \times ED \times EF \times A}{BW \times AT}$$

Where:

DAD	=	dermally absorbed dose (mg/kg/day)
DAevent	=	absorbed does per event (mg/cm^2/event)
EV	=	event frequency (events/day)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (years)
A	=	skin surface available for contact (cm^2)
BW	=	body weight (kg)
AT	=	averaging time (days)
CSFo	=	oral carcinogenic slope factor ($(mg/kg/day)^{-1}$)
RfDo	=	oral noncarcinogenic reference dose (mg/kg/day)

RISKS:

ICLR (Carcinogens) = DAD (mg/kg/day) x CSFd $(mg/kg/day)^{-1}$
HQ (Noncarcinogens) = DAD (mg/kg/day) / RFDd (mg/kg/day)

EQUATIONS for DAevent:

For Inorganics:

DAevent = Kp x Cw x CF x tevent

For Organics:

$$\text{If } tevent \le t^*, \text{ then: } DAevent = 2 \times FA \times Kp \times Cw \times CF \times \sqrt{\frac{6 \times tau \times tevent}{\pi}}$$

$$\text{If } tevent > t^*, \text{ then: } DAevent = FA \times Kp \times Cw \times CF \times \left[\frac{tevent}{1+B} + 2 \times tau \times \left(\frac{1+3B+3B^2}{(1+B)^2}\right)\right]$$

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM DERMAL CONTACT WITH GROUNDWATER ADULT RESIDENT		
BASED ON: USEPA, DEC. 1989, 2001		
BY: R. JUPIN	**CHECKED BY:** T. Jackson	**DATE:** 04/20/07

Where:

Kp	=	permeability coefficient from water (cm/hr)
Cgw	=	concentration of chemical in groundwater (mg/L)
tevent	=	duration of event (hr/event)
CF	=	conversion factor (0.001 L/cm^3)
t*	=	time it takes to reach steady-state (hr/event)
τ	=	lag time (hr/event)
B	=	Bunge Model Constant (dimensionless)

EXAMPLE CALCULATION OF DAevent

ASSUMPTIONS:

Cgw	=	0.0026	mg/L	Chemical: Vinyl Chloride
Kp	=	5.60E-03	cm/hr	
FA	=	1	unitless	
tevent	=	0.25	hr/event	
CF	=	0.001	L/cm^3	
t*	=	0.57	hr/event	
τ	=	0.24	hr/event	
B	=	0.017		

tevent < t*, therefore,

$$DAevent = (2 \times 0.0056\ cm/hr)\ (1)\ (0.00258\ mg/L)\ (0.001\ L/cm3) \times \sqrt{\frac{6 \times 0.24\ hr/event \times 0.25\ hr/event}{\pi}}$$

DAevent = 9.78E-09 mg/cm^2-event

RISK CALCULATIONS

ASSUMPTIONS:

A	=	18000	cm^2/day
EV	=	1	event/day
ED	=	24	years
EF	=	350	days/year
BW	=	70	kg
ATc	=	25550	days
ATnc	=	8760	days
CSFd	=	1.5E+00	$(mg/kg/day)^{-1}$
RfDd	=	3.0E-03	(mg/kg/day)

CLIENT: NAS JACKSONVILLE, FLORIDA		JOB NUMBER: 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM DERMAL CONTACT WITH GROUNDWATER ADULT RESIDENT		
BASED ON: USEPA, DEC. 1989, 2001		
BY: R. JUPIN	CHECKED BY:	DATE: 04/20/07

EXAMPLE CARCINOGENIC CALCULATION

$$DADc = \frac{9.78E\text{-}09 \text{ mg/cm2-event} \times 1 \text{ event/day} \times 24 \text{ years} \times 350 \text{ days/year} \times 18000 \text{ cm2/day}}{70 \text{ kg} \times 25550 \text{ days}}$$

DADc = 8.27E-07 mg/kg/day

DADc = 8.27E-07 mg/kg/day x 1.50E+00 (mg/kg/day)-1 = Incremental Lifetime Cancer Risk

ICLR = 1.24E-06

EXAMPLE NONCARCINOGENIC CALCULATION

$$DADnc = \frac{9.78E\text{-}09 \text{ mg/cm2-event} \times 1 \text{ event/day} \times 24 \text{ years} \times 350 \text{ days/year} \times 18000 \text{ cm2/day}}{70 \text{ kg} \times 8760 \text{ days}}$$

DADnc = 2.41E-06 mg/kg/day

HQ = 2.41E-06 mg/kg/day / 3.00E-03 (mg/kg/day) = Hazard Quotient

HQ = 8.04E-04

CALCULATION WORKSHEET

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: ESTIMATION OF AMBIENT AIR CONCENTRATIONS IN A TRENCH RESULTING FROM VOLATILE EMISSIONS FROM GROUNDWATER.		
BASED ON: VDEQ, 2002		
BY: R. JUPIN	**CHECKED BY:**	**DATE:** 04/20/07

PURPOSE: To calculate ambient air concentrations resulting from volatilization of chemicals from groundwater.

Ctrench = CGW x VF

Where:

Ctrench = concentration of contaminant in the trench µg/m^3
CGW = concentration of contaminant in groundwater µg/L
VF = volatilization factor L/m^3

1. Calculate kiG (gas-phase mass transfer coefficient of component i)

$kiG = (MWH2O/MWi)^{0.335} \times (T/298)^{1.005} \times kG, H2O$

Where:

kiG = gas-phase mass transfer coefficient of component i cm/s
MW_{H2O} = molecular weight of water = 18 g/mol
MW_{TCE} = molecular weight of TCE = 131.39 g/mol
kG,H_2O = gas-phase mass transfer coefficient of water vapor at 25°C cm/s = 0.833 cm/s
T = average system absolute temperature = 298
The value of kG, H_2O is 0.833 cm/s (Superfund Exposure Assessment Manual, U. S. EPA, April 1988)

$kiG = (18/131.39)^{0.335} \times (298/298)^{1.005} \times 0.833$ cm/s = 4.28E-01 cm/s

2. Calculate kiL (liquid-phase mass transfer coefficient of component i)

$kiL = (MWO_2/MWi)^{0.5} \times (T/298) \times kL, O_2$

Where:
kiL = liquid-phase mass transfer coefficient of component i cm/s
MW_{O2} = molecular weight of O_2 = 32 g/mol
MW_{TCE} = molecular weight of TCE = 131.39 g/mol
T = average system absolute temperature = 298
kL, O_2 = liquid-phase mass transfer coefficient of oxygen at 25°C cm/s = 0.002 cm/s

$kiL = (32/131.39)^{0.5} \times (298/298) \times 0.002$ cm/s = 9.87E-04 cm/s

CLIENT: NAS JACKSONVILLE, FLORIDA		JOB NUMBER: 0497
SUBJECT: ESTIMATION OF AMBIENT AIR CONCENTRATIONS IN A TRENCH RESULTING FROM VOLATILE EMISSIONS FROM GROUNDWATER.		
BASED ON: VDEQ, 2002		
BY: R. JUPIN	CHECKED BY:	DATE: 04/20/07

3. Calculate Ki (overall mass transfer coefficient of contaminant)

$Ki = 1 / \{(1/kiL) + [(RT) / (Hi \times kiG)]\}$

Where:

kiL = liquid-phase mass transfer coefficient of i cm/s =	9.87E-04
R = ideal gas constant atm-m^3/mole-°K =	8.20E-05
T = average system absolute temperature =	298
Hi = Henry's Law constant of TCE (atm-m^3/mol) =	1.03E-02
KiG = gas-phase mass transfer coefficient of i cm/s	4.28E-01

$Ki = 1 / \{(1/9.78E\text{-}4) + [(298 \times 8.2E\text{-}5) / (1.03E\text{-}2 \times 0.428]\}$ = 9.82E-04 cm/s

4. Calculation of VF (Volatilization Factor)

$VF = (Ki \times A \times F \times 10^{-3} \times 10^{4} \times 3{,}600) / (ACH \times V)$

Where:

VF = volatilization factor (L/m^3)		
Ki = overall mass transfer coefficient of contaminant =		9.82E-04 cm/s
A = area of the trench =		8.18 m^2
F = fraction of floor through which contaminant can enter (unitless) =		1
ACH = air changes per hour =		360 h^{-1}
V = volume of trench =		24.92 m^3
10^{-3} = conversion factor L/cm^3	0.001	
10^{4} = conversion factor cm^2/m^2	10000	
3,600 = conversion factor seconds/hr	3600	

$VF = (9.82E\text{-}4 \times 8.18 \times 1 \times 10^{-3} \times 10^{4} \times 3{,}600) / (360 \times 24.92)$ = 3.22E-02 L/m^3

5. Calculation of C_{trench} (concentration of contaminant in the trench)

$C_{trench} = C_{GW} \times VF$

Where:

C_{trench} = concentration of contaminant in the trench ($\mu g/m^3$)		
C_{GW} = concentration of TCE in groundwater =	2.75	µg/L
VF = volatilization factor =	3.22E-02	L/m^3

C_{trench} = 2.75 µg/L x 3.22E-02 L/m3 = **8.86E-02 $\mu g/m^3$**

CALCULATION WORKSHEET

CLIENT: NAS JACKSONVILLE, FLORIDA		**JOB NUMBER:** 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM INHALATION OF VOLATILE EMISSIONS FROM GROUNDWATER BY A CONSTRUCTION WORKER		
BASED ON: USEPA, DEC. 1989		
BY: R. JUPIN	**CHECKED BY:**	**DATE:** 04/20/07

PURPOSE: To estimate intake, carcinogenic and noncarcinogenic risks from inhalation of chemicals volatilizing from groundwater by a construction worker.

EQUATION:

$$IEX = \frac{Ca \times IR \times ET \times EF \times ED}{BW \times AT}$$

Where:

IEX	=	estimated exposure intake (mg/kg/day)
Ca	=	exposure point concentration in air (mg/m3)
IR	=	inhlation rate (m3/hr)
ET	=	exposure time (hrs/day)
EF	=	exposure frequency (days/year)
ED	=	exposure duration (years)
BW	=	body weight (kg)
AT	=	averaging time (days)
CSFi	=	inhalation carcinogenic slope factor ($(mg/kg/day)^{-1}$)
RfDi	=	inhalation noncarcinogenic reference dose (mg/kg/day)

RISKS:

ICLR (Carcinogens) = Intake (mg/kg/day) x CSFi $(mg/kg/day)^{-1}$
HQ (Noncarcinogens) = Intake (mg/kg/day) / RfDi (mg/kg/day)

ASSUMPTIONS:

Ca	=	8.86E-05	mg/m3	Chemical: Trichloroethene
IR	=	2.5	m3/hr	
ET	=	4	hr/day	
EF	=	30	days/year	
ED	=	1	years	
BW	=	70	kg	
ATc	=	25550	days	
ATnc	=	365	days	
CSFi	=	7.0E-03	$(mg/kg/day)^{-1}$	
RfDi	=	1.7E-01	(mg/kg/day)	

CLIENT: NAS JACKSONVILLE, FLORIDA		JOB NUMBER: 0497
SUBJECT: CALCULATION OF INTAKE/RISK FROM INHALATION OF VOLATILE EMISSIONS FROM GROUNDWATER BY A CONSTRUCTION WORKER		
BASED ON: USEPA, DEC. 1989		
BY: R. JUPIN	CHECKED BY:	DATE: 04/20/07

EXAMPLE CARCINOGENIC CALCULATION

$$IEXc = \frac{8.86E\text{-}05 \text{ mg/m3} \times 2.5 \text{ m3/hr} \times 4 \text{ hr/day} \times 30 \text{ days/year} \times 1 \text{ years}}{70 \text{ kg} \times 25550 \text{ days}}$$

IEXc = 1.49E-08 mg/kg/day

ICLR = 1.49E-08 mg/kg/day x 7.00E-03 (mg/kg/day)-1 = Incremental Lifetime Cancer Risk

ICLR = 1.0E-10

EXAMPLE NONCARCINOGENIC CALCULATION

$$IEXnc = \frac{8.86E\text{-}05 \text{ mg/m3} \times 2.5 \text{ m3/hr} \times 4 \text{ hr/day} \times 30 \text{ days/year} \times 1 \text{ years}}{70 \text{ kg} \times 365 \text{ days}}$$

IEXnc = 1.04E-06 mg/kg/day

$$HQ = \frac{1.04E\text{-}06 \text{ mg/kg/day}}{1.70E\text{-}01 \text{ (mg/kg/day)}} = \text{Hazard Quotient}$$

HQ = 6.1E-06

APPENDIX K.2

RAGS Part D Tables

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
PSC 47 - NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/ Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current/Future	Surface Soil	Surface Soil	Surface Soil	Maintenance Workers	Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Site maintenance workers, such as groundskeepers, may periodically enter the site and contact contaminated soil in the course of their job duties.
		Air	Surface Soil	Maintenance Workers	Adult	Inhalation	On-Site	Quantative	No COPCs were identified in soil for the inhalation pathway, therefore this pathway is not evaluated
		Surface Soil	Surface Soil	Trespassers	Adolescents and Adults	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Persons may trespass on the site and contact contaminated soil.
		Air	Surface Soil	Trespassers	Adolescents and Adults	Inhalation	On-Site	Quantative	Trespassers may be exposed to fugitive dust and volatile emissions.
Future	Surface Soil	Surface Soil	Surface Soil	Construction Workers	Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Construction workers may have contact with surface soil during excavation activities.
		Air	Surface Soil	Construction Workers	Adult	Inhalation	On-Site	Quantative	Construction workers may be exposed to fugitive dust and volatile emissions during construction activities.
		Surface Soil	Surface Soil	Occupational Workers	Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Occupational (commercial/industrial) workers, may contact contaminated soil in the course of their job duties.
		Air	Surface Soil	Occupational Workers	Adult	Inhalation	On-Site	Quantative	Occupational workers may be exposed to fugitive dust and volatile emissions.
	Surface Soil	Surface Soil	Surface Soil	Residents	Child	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to contaminated soil during typical residential activities, such as gardening or playing.
					Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to contaminated soil during typical residential activities, such as gardening or playing.
		Air	Surface Soil	Residents	Child	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to fugitive dust and volatile emissions.
					Adult	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to fugitive dust and volatile emissions.
	SubSurface Soil	SubSurface Soil	SubSurface Soil	Construction Workers	Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Construction workers may have contact with subsurface soil during excavation activities.
			SubSurface Soil	Residents	Child	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to contaminated subsurface soil that was brought to the surface.
					Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to contaminated subsurface soil that was brought to the surface.
		Air	SubSurface Soil	Construction Workers	Adult	Inhalation	On-Site	Quantative	Construction workers may be exposed to fugitive dust and volatile emissions during construction activities.
			SubSurface Soil	Residents	Child	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to fugitive dust and volatile emissions.
					Adult	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to fugitive dust and volatile emissions.
	Groundwater	Groundwater	Groundwater	Construction Workers	Adult	Ingestion Dermal	On-Site On-Site	None Quantative	Groundwater is not used as a potable water supply at the site. Construction workers may contact groundwater during excavation activities.
			Tap Water	Residents	Child	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to COPCs in groundwater if groundwater was used as a potable water source.
					Adult	Ingestion Dermal	On-Site On-Site	Quantative Quantative	Hypothetical on-site residents may be exposed to COPCs in groundwater if groundwater was used as a potable water source.
Future	Groundwater	Air	Groundwater	Construction Workers	Adult	Inhalation	On-Site	Quantative	Construction workers may contact groundwater during excavation activities.
			Tap Water	Residents	Child	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to COPCs in groundwater if groundwater was used as a potable water source.
					Adult	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to COPCs in groundwater if groundwater was used as a potable water source.
			Indoor Air	Residents	Child	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to COPCs that have volatilized from groundwater and migrated through building foundations into indoor air.
					Adult	Inhalation	On-Site	Quantative	Hypothetical on-site residents may be exposed to COPCs that have volatilized from groundwater and migrated through building foundations into indoor air.

LIST OF TABLES
RAGS PART D TABLE 2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

Table No.	
2.1	Direct Contact With Surface Soil
2.2	Migration From Surface Soil to Groundwater
2.3	Direct Contact With Subsurface Soil
2.4	Migration From Subsurface Soil to Groundwater
2.5	Direct Contact With Groundwater
2.6	Migration from Groundwater to Indoor Air

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - DIRECT CONTACT
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	USEPA SSL Soil to Air[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
PSC 47	Volatile Organics Compounds															
	78-93-3	2-Butanone	12	77	µg/kg	JAX47-SB001	3/4	1.4 - 1.4	77	NA	2,200,000 N	16,000,000	FDEP	24,000,000 sat	No	BSL
	67-64-1	Acetone	23.7 J	23.7 J	µg/kg	JAX47-SB118	1/4	6 - 22	23.7	NA	1,400,000 N	11,000,000	FDEP	NA	No	BSL
	75-09-2	Methylene Chloride	5.5 J	20 J	µg/kg	JAX47-SB001	4/4		20	NA	9,100 C	17,000	FDEP	13,000 C	No	BSL
	Semivolatile Organics Compounds															
	CALC013	**BaP Equivalent**	190	640	µg/kg	JAX47-SB001	2/4	127 - 360	640	NA	**62 C**	**100**	FDEP	NA	**Yes**	ASL
	56-55-3	Benzo(a)anthracene	120 J	230 J	µg/kg	JAX47-SB001	2/4	170 - 360	230	NA	620 C	1,000	FDEP	NA	No	BSL
	50-32-8	**Benzo(a)pyrene**	130 J	380 J	µg/kg	JAX47-SB001	2/4	127 - 360	380	NA	**62 C**	**100**	FDEP	NA	**Yes**	ASL
	205-99-2	Benzo(b)fluoranthene	120 J	560 J	µg/kg	JAX47-SB00	2/4	120 - 360	560	NA	620 C	1,000	FDEP	NA	No	BSL
	191-24-2	Benzo(g,h,i)perylene	67 J	420 J	µg/kg	JAX47-SB00	2/4	152 - 360	420	NA	230,000 N[10]	2,500,000	FDEP	NA	No	BSL
	207-08-9	Benzo(k)fluoranthene	140 J	410 J	µg/kg	JAX47-SB00	2/4	145 - 360	410	NA	6,200 C	10,000	FDEP	NA	No	BSL
	117-81-7	Bis(2-ethylhexyl)phthalate	130 J	1400	µg/kg	JAX47-SB00	2/4	221 - 360	1400	NA	35,000 C	72,000	FDEP	NA	No	BSL
	85-68-7	Butyl Benzyl Phthalate	35 J	360 J	µg/kg	JAX47-SB001	2/4	137 - 360	360	NA	1,200,000 N	17,000,000	FDEP	NA	No	BSL
	218-01-9	Chrysene	150 J	480 J	µg/kg	JAX47-SB001	2/4	148 - 360	480	NA	62,000 C	100,000	FDEP	NA	No	BSL
	53-70-3	**Dibenzo(a,h)anthracene**	28 J	140 J	µg/kg	JAX47-SB001	2/4	210 - 360	140	NA	**62 C**	**100**	FDEP	NA	**Yes**	ASL
	131-11-3	Dimethyl Phthalate	340 J	340 J	µg/kg	JAX47-SB001	1/4	123 - 430	340	NA	61,000 N	690,000,000	FDEP	NA	No	BSL
	206-44-0	Fluoranthene	93 J	530 J	µg/kg	JAX47-SB001	2/4	153 - 360	530	NA	230,000 N	3,200,000	FDEP	NA	No	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	76 J	400 J	µg/kg	JAX47-SB001	2/4	206 - 360	400	NA	620 C	1,000	FDEP	NA	No	BSL
	85-01-8	Phenanthrene	21 J	160 J	µg/kg	JAX47-SB001	2/4	153 - 360	160	NA	230,000 N[10]	22,000	FDEP	NA	No	BSL
	129-00-0	Pyrene	120 J	520 J	µg/kg	JAX47-SB001	2/4	159 - 360	520	NA	230,000 N	2,400,000	FDEP	NA	No	BSL
	Pesticides/PCBs															
	72-54-8	**4,4'-DDD**	0.65 J	17000 J	µg/kg	JAX47-SB096	76/130	0 - 10000	17000	NA	**2,400 C**	**4,200**	FDEP	NA	**Yes**	ASL
	72-55-9	**4,4'-DDE**	0.37 J	28000	µg/kg	JX01216	115/130	0.34 - 12.5	28000	NA	**1,700 C**	**2,900**	FDEP	NA	**Yes**	ASL
	50-29-3	**4,4'-DDT**	0.33 J	2700000 J	µg/kg	JAX47-SB096	110/130	0.18 - 12.5	2700000	NA	**1,700 C**	**2,900**	FDEP	**750,000** C	**Yes**	ASL
	309-00-2	Aldrin	0.31 J	13.9	µg/kg	JAX47-SB029	3/130	0.2 - 5300	13.9	NA	29 C	60	FDEP	3,400 C	No	BSL, FREQ
	319-84-6	alpha-BHC	0.18 J	3.7 J	µg/kg	JAX47-SB096	12/130	0.13 - 5300	3.7	NA	90 C	100	FDEP	750 C	No	BSL
	5103-71-9	**alpha-Chlordane**	0.33 J	50000 J	µg/kg	JAX47-SB094	47/130	0.27 - 2300	50000	NA	**1,600 C[11]**	**2,800[11]**	FDEP	72,000 C	**Yes**	ASL
	319-85-7	beta-BHC	0.57 J	110 J	µg/kg	JAX47-SB089	23/130	0.34 - 5300	110	NA	320 C	500	FDEP	6,000 C	No	BSL
	319-86-8	delta-BHC	0.34 J	82.5	µg/kg	JAX47-SB025	16/130	0.17 - 5300	82.5	NA	90 C[12]	24,000	FDEP	NA	No	BSL
	60-57-1	**Dieldrin**	0.29 J	3400	µg/kg	JAX47-SB050, JAX47-SB106	59/130	0.24 - 4400	3400	NA	**30 C**	**60**	FDEP	**1,100** C	**Yes**	ASL
	959-98-8	Endosulfan I	7.2	400 J	µg/kg	JAX47-SB094	3/130	0.27 - 5300	400	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL, FREQ
	33213-65-9	Endosulfan II	1.3 J	220 J	µg/kg	JAX47-SB087	7/130	0.23 - 10000	220	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
	1031-07-8	Endosulfan Sulfate	0.33 J	200	µg/kg	JAX47-SB011	23/130	0.27 - 10000	200	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
	72-20-8	Endrin	0.61 J	1400	µg/kg	JAX47-SB094	28/130	0.37 - 10000	1400	NA	1,800 N	25,000	FDEP	NA	No	BSL
	7421-93-4	Endrin Aldehyde	0.24 J	130 J	µg/kg	JAX47-SB096	18/130	0.17 - 10000	130	NA	1,800 N[14]	NA	FDEP	NA	No	BSL
	53494-70-5	Endrin Ketone	0.31 J	127.9	µg/kg	JAX47-SB024	17/130	0.3 - 10000	127.9	NA	1,800 N[14]	NA	FDEP	NA	No	BSL
	58-89-9	gamma-BHC (Lindane)	0.28 J	210	µg/kg	JX01285	13/130	0.17 - 5300	210	NA	440 C	NA	FDEP	NA	No	BSL
	5103-74-2	**gamma-Chlordane**	0.34 J	37000	µg/kg	JAX47-SB094	59/130	0.23 - 2300	37000	NA	**1,600 C[11]**	**2,800[11]**	FDEP	72,000 C	**Yes**	ASL
	76-44-8	**Heptachlor**	0.24 J	3400 J	µg/kg	JAX47-SB096	23/130	0.23 - 5300	3400	NA	**110 C**	**200**	FDEP	4,100 C	**Yes**	ASL
	1024-57-3	**Heptachlor Epoxide**	0.82 J	920 J	µg/kg	JAX47-SB094	30/130	0.57 - 5300	920	NA	**53 C**	**100**	FDEP	4,700 C	**Yes**	ASL
	72-43-5	Methoxychlor	0.45 J	210 J	µg/kg	JAX47-SB096	24/130	0.34 - 53000	210	NA	31,000 N	420,000	FDEP	NA	No	BSL
	Inorganics															
	7440-38-2	**Arsenic**	0.2	47.4	mg/kg	JAX47-SB103	27/54	0.2 - 2.2	47.4	NA	**0.39 C**	**2.1**	FDEP	760 C	**Yes**	ASL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - DIRECT CONTACT
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	USEPA SSL Soil to Air[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection

Footnotes:
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - The risk-based COPC screening level for residential exposures to soil is presented. The value is based on a target Hazard Quotient of 0.1 for non-carcinogens (denoted with a "N" flag) or an incremental cancer risk of 1E-6 for carcinogens (denoted with a "C" flag) (USEPA, Region 9, October 2004).
The RBCs for non-carcinogenic compounds are divided by 10
7 - Soil Cleanup Target Levels taken from Table II, FAC 62-777 (FDEP, February 2005).
8 - USEPA Soil Screening Levels. USEPA Internet Site at http://risk.lsd.ornl.gov/calc_start.htm (SSLs for non-carcinogens are divided by 10).
9 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels
10 - Value is for pyrene.
11 - Value is for chlordane.
12 - Value is for alpha-BHC.
13 - Value is for endosulfan.
14 - Value is for endrin.

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
N = Non-carcinogen
NA = Not Applicable/Not Available
max = ceiling limit
sat = soil saturation limit
SSL = Soil Screening Level

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BSL = Below COPC Screening Level/ARAR/TBC
FREQ = Frequency of detection

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - MIGRATION TO GROUNDWATER
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA
PAGE 1 OF 2

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	USEPA SSL Soil to Groundwater[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	COPC Flag[8]	Rationale for Contaminant Deletion or Selection
PSC 47	**Volatile Organic Compounds**														
	78-93-3	2-Butanone	12	77	µg/kg	JAX47-SB001	3/4	1.4 - 1.4	77	NA	89000 N	17000	FDEP	No	BSL
	67-64-1	Acetone	23.7 J	23.7 J	µg/kg	JAX47-SB118	1/4	6 - 22	23.7	NA	130000 N	25000	FDEP	No	BSL
	75-09-2	Methylene Chloride	5.6 J	20 J	µg/kg	JAX47-SB001	4/4	-	20	NA	23 C	20	FDEP	No	BSL
	Semivolatile Organics Compounds														
	CALC013	BaP Equivalent	190	640	µg/kg	JAX47-SB001	2/4	127 - 360	640	NA	8200 MCL	8000	FDEP	No	BSL
	56-55-3	Benzo(a)anthracene	120 J	230 J	µg/kg	JAX47-SB001	2/4	170 - 360	230	NA	3200 C	800	FDEP	No	BSL
	50-32-8	Benzo(a)pyrene	130 J	380 J	µg/kg	JAX47-SB001	2/4	127 - 360	380	NA	8200 MCL	8000	FDEP	No	BSL
	205-99-2	Benzo(b)fluoranthene	120 J	560 J	µg/kg	JAX47-SB001	2/4	120 - 360	560	NA	9800 C	2400	FDEP	No	BSL
	191-24-2	Benzo(g,h,i)perylene	67 J	420 J	µg/kg	JAX47-SB001	2/4	152 - 360	420	NA	NA	32000000	FDEP	No	BSL
	207-08-9	Benzo(k)fluoranthene	140 J	410 J	µg/kg	JAX47-SB001	2/4	145 - 360	410	NA	9800 C	24000	FDEP	No	BSL
	117-81-7	Bis(2-ethylhexyl)phthalate	130 J	1400	µg/kg	JAX47-SB001	2/4	221 - 360	1400	NA	3600000 MCL	3600000	FDEP	No	BSL
	85-68-7	Butyl Benzyl Phthalate	35 J	360 J	µg/kg	JAX47-SB001	2/4	137 - 360	360	NA	17000000 N	310000	FDEP	No	BSL
	218-01-9	Chrysene	150 J	480 J	µg/kg	JAX47-SB001	2/4	148 - 360	480	NA	3200 C	77000	FDEP	No	BSL
	53-70-3	Dibenzo(a,h)anthracene	28 J	140 J	µg/kg	JAX47-SB001	2/4	210 - 360	140	NA	30000 C	700	FDEP	No	BSL
	131-11-3	Dimethyl Phthalate	340 J	340 J	µg/kg	JAX47-SB001	1/4	123 - 430	340	NA	NA	380000	FDEP	No	BSL
	206-44-0	Fluoranthene	93 J	530 J	µg/kg	JAX47-SB001	2/4	153 - 360	530	NA	6300000 N	1200000	FDEP	No	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	76 J	400 J	µg/kg	JAX47-SB001	2/4	206 - 360	400	NA	28000 C	6600	FDEP	No	BSL
	85-01-8	Phenanthrene	21 J	160 J	µg/kg	JAX47-SB001	2/4	153 - 360	160	NA	NA	250000	FDEP	No	BSL
	129-00-0	Pyrene	120 J	520 J	µg/kg	JAX47-SB001	2/4	159 - 360	520	NA	4600000 N	880000	FDEP	No	BSL
	Pesticides/PCBs														
	72-54-8	**4,4'-DDD**	0.63 J	17000 J	µg/kg	JAX47-SB096	76/130	0 - 10000	17000	NA	**14000 C**	**5800**	FDEP	**Yes**	ASL
	72-55-9	**4,4'-DDE**	0.37 J	28000	µg/kg	JX01216	115/130	0.34 - 12.5	28000	NA	45000 C	**18000**	FDEP	**Yes**	ASL
	50-29-3	**4,4'-DDT**	0.33 J	2700000 J	µg/kg	JAX47-SB096	110/130	0.18 - 12.5	2700000	NA	**26000 C**	**11000**	FDEP	**Yes**	ASL
	309-00-2	Aldrin	0.31 J	13.9	µg/kg	JAX47-SB029	3/130	0.2 - 5300	13.9	NA	500 C	200	FDEP	No	BSL, FREQ
	319-84-6	**alpha-BHC**	0.18 J	3.7 J	µg/kg	JAX47-SB096	12/130	0.13 - 5300	3.7	NA	**0.72 C**	**0.3**	FDEP	**Yes**	ASL
	5103-71-9	**alpha-Chlordane**	0.33 J	50000 J	µg/kg	JAX47-SB094	47/130	0.27 - 2300	50000	NA	**9600[9] MCL**	**9600[9]**	FDEP	**Yes**	ASL
	319-85-7	**beta-BHC**	0.37 J	110 J	µg/kg	JAX47-SB089	23/130	0.34 - 5300	110	NA	**2.5 C**	**1**	FDEP	**Yes**	ASL
	319-86-8	delta-BHC	0.34 J	82.5	µg/kg	JAX47-SB025	16/130	0.17 - 5300	82.5	NA	NA	200	FDEP	No	BSL
	60-57-1	**Dieldrin**	0.29 J	3400	µg/kg	7-SB050 JAX47-S	59/130	0.24 - 4400	3400	NA	**4.5 C**	**2**	FDEP	**Yes**	ASL
	959-98-8	Endosulfan I	7.2	400 J	µg/kg	JAX47-SB094	3/130	0.27 - 5300	400	NA	NA	3,800	FDEP	No	BSL, FREQ
	33213-65-9	Endosulfan II	1.3 J	220 J	µg/kg	JAX47-SB087	7/130	0.23 - 10000	220	NA	NA	3,800	FDEP	No	BSL
	1031-07-8	Endosulfan Sulfate	0.33 J	200	µg/kg	JAX47-SB011	23/130	0.27 - 10000	200	NA	NA	3,800	FDEP	No	BSL
	72-20-8	**Endrin**	0.61 J	1400	µg/kg	JAX47-SB094	28/130	0.37 - 10000	1400	NA	**990 MCL**	**1000**	FDEP	**Yes**	ASL
	7421-93-4	Endrin Aldehyde	0.24 J	130 J	µg/kg	JAX47-SB096	18/130	0.17 - 10000	130	NA	NA	NA	FDEP	No	NTX
	53494-70-5	Endrin Ketone	0.31 J	127.9	µg/kg	JAX47-SB024	17/130	0.3 - 10000	127.9	NA	NA	NA	FDEP	No	NTX
	58-89-9	**gamma-BHC (Lindane)**	0.28 J	210	µg/kg	JX01285	13/130	0.17 - 5300	210	NA	**9.4 MCL**	**9**	FDEP	**Yes**	ASL
	5103-74-2	**gamma-Chlordane**	0.34 J	37000	µg/kg	JAX47-SB094	59/130	0.23 - 2300	37000	NA	**9600[9] MCL**	**9600[9]**	FDEP	**Yes**	ASL
	76-44-8	Heptachlor	0.24 J	3400 J	µg/kg	JAX47-SB096	23/130	0.23 - 5300	3400	NA	23000 MCL	23000	FDEP	No	BSL
	1024-57-3	**Heptachlor Epoxide**	0.82 J	920 J	µg/kg	JAX47-SB094	30/130	0.57 - 5300	920	NA	**670 MCL**	**600**	FDEP	**Yes**	ASL
	72-43-5	Methoxychlor	0.45 J	210 J	µg/kg	JAX47-SB096	24/130	0.34 - 53000	210	NA	160000 MCL	160000	FDEP	No	BSL
	Inorganics														
	7440-38-2	**ARSENIC**	0.2	47.4	mg/kg	JAX47-SB103	27/54	0.2 - 2.2	47.4	NA	**5.8 MCL**	NA	FDEP	**Yes**	ASL

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - MIGRATION TO GROUNDWATER
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	USEPA SSL Soil to Groundwater[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	COPC Flag[8]	Rationale for Contaminant Deletion or Selection

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - USEPA Soil Screening Levels. USEPA Internet Site at http://risk.lsd.ornl.gov/calc_start.htm (SSLs for non-carcinogens are divided by 10).
7 - Soil Cleanup Target Levels taken from Table II, FAC 62-777.
8 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
9 - Value is for chlordane.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
Definitions Continued:
MCL = Maximum Contaminant Level
N = Non-carcinogen
NA = Not Applicable/Not Available
SSL = Soil Screening Level

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.

Rationale Codes:
For selection as a COPC:
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BSL = Below COPC Screening Level/ARAR/TBC
NTX = No toxicity criteria

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - DIRECT CONTACT
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Subsurface Soil
Exposure Medium: Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	USEPA SSL Soil to Air[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
PSC 47	Volatile Organics Compounds															
	78-93-3	2-Butanone	43	43	µg/kg	JAX47-SB010	1/2	1.3 - 1.3	43	NA	2,200,000 N	16,000,000	FDEP	24,000,000 sat	No	BSL
	67-64-1	Acetone	43	43.2 J	µg/kg	JAX47-SB118	2/2	-	43.2	NA	1,400,000 N	11,000,000	FDEP	NA	No	BSL
	75-09-2	Methylene Chloride	5.1 J	8	µg/kg	JAX47-SB010	2/2	-	8	NA	9,100 C	17,000	FDEP	13,000 C	No	BSL
	108-88-3	Toluene	6 J	6 J	µg/kg	JAX47-SB010	1/2	0.2 - 0.2	6	NA	520,000 sat	7,500,000	FDEP	650,000 sat	No	BSL
	Semivolatile Organics Compounds															
	CALC013	**BaP Equivalent**	410	410	µg/kg	JAX47-SB010	1/2	134 - 134	410	NA	**62 C**	**100**	FDEP	NA	**Yes**	ASL
	56-55-3	Benzo(a)anthracene	86 J	86 J	µg/kg	JAX47-SB010	1/2	180 - 180	86	NA	620 C	1,000	FDEP	NA	No	BSL
	50-32-8	**Benzo(a)pyrene**	120 J	120 J	µg/kg	JAX47-SB010	1/2	134 - 134	120	NA	**62 C**	**100**	FDEP	NA	**Yes**	ASL
	205-99-2	Benzo(b)fluoranthene	180 J	180 J	µg/kg	JAX47-SB010	1/2	126 - 126	180	NA	620 C	1,000	FDEP	NA	No	BSL
	191-24-2	Benzo(g,h,i)perylene	110 J	110 J	µg/kg	JAX47-SB010	1/2	160 - 160	110	NA	230,000 N[10]	2,500,000	FDEP	NA	No	BSL
	207-08-9	Benzo(k)fluoranthene	120 J	120 J	µg/kg	JAX47-SB010	1/2	153 - 153	120	NA	6,200 C	10,000	FDEP	NA	No	BSL
	117-81-7	Bis(2-ethylhexyl)phthalate	88 J	88 J	µg/kg	JAX47-SB010	1/2	233 - 233	88	NA	35,000 C	72,000	FDEP	NA	No	BSL
	218-01-9	Chrysene	170 J	170 J	µg/kg	JAX47-SB010	1/2	156 - 156	170	NA	62,000 C	100,000	FDEP	NA	No	BSL
	206-44-0	Fluoranthene	190 J	190 J	µg/kg	JAX47-SB010	1/2	161 - 161	190	NA	230,000 N	3,200,000	FDEP	NA	No	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	120 J	120 J	µg/kg	JAX47-SB010	1/2	218 - 218	120	NA	620 C	1,000	FDEP	NA	No	BSL
	85-01-8	Phenanthrene	49 J	49 J	µg/kg	JAX47-SB010	1/2	161 - 161	49	NA	230,000 N[10]	22,000	FDEP	NA	No	BSL
	129-00-0	Pyrene	210 J	210 J	µg/kg	JAX47-SB010	1/2	168 - 168	210	NA	230,000 N	2,400,000	FDEP	NA	No	BSL
	Pesticides/PCBs															
	72-54-8	**4,4'-DDD**	0.67 J	220000	µg/kg	JX01296	30/62	0.31 - 5	220000	NA	**2,400 C**	**4,200**	FDEP	NA	**Yes**	ASL
	72-55-9	**4,4'-DDE**	0.54 J	25000	µg/kg	JX01266	44/62	0.34 - 5	25000	NA	**1,700 C**	**2,900**	FDEP	NA	**Yes**	ASL
	50-29-3	**4,4'-DDT**	0.36 J	420000	µg/kg	JX01266	46/62	0.15 - 5	420000	NA	**1,700 C**	**2,900**	FDEP	750,000 C	**Yes**	ASL
	309-00-2	Aldrin	0.24 J	0.24 J	µg/kg	JAX47-SB094	1/62	0.2 - 260	0.24	NA	29 C	50	FDEP	3,400 C	No	BSL, FREQ
	319-84-6	**alpha-BHC**	0.4 J	2500	µg/kg	JX01247	8/62	0.14 - 260	2500	NA	**90 C**	**100**	FDEP	**750 C**	**Yes**	ASL
	5103-71-9	**alpha-Chlordane**	0.32 J	37000	µg/kg	JX01296	27/62	0.27 - 5	37000	NA	**1,600 C[11]**	**2,800[11]**	FDEP	72,000 C	**Yes**	ASL
	319-85-7	**beta-BHC**	0.44 J	4200	µg/kg	JX01247	17/62	0.34 - 260	4200	NA	**320 C**	**500**	FDEP	6,600 C	**Yes**	ASL
	319-86-8	**delta-BHC**	0.22 J	30000	µg/kg	JX01247	16/62	0.17 - 260	30000	NA	**90 C[12]**	**24,000**	FDEP	NA	**Yes**	ASL
	60-57-1	**Dieldrin**	0.26 J	9000	µg/kg	JX01296	27/62	0.24 - 500	9000	NA	**30 C**	**60**	FDEP	**1,100 C**	**Yes**	ASL
	959-98-8	Endosulfan I	0.32 J	0.4 J	µg/kg	JAX47-SB080	3/62	0.27 - 260	0.4	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL, FREQ
	33213-65-9	Endosulfan II	0.31 J	39 J	µg/kg	JAX47-SB087	6/62	0.24 - 500	39	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL
	1031-07-8	Endosulfan Sulfate	0.42 J	7.2 J	µg/kg	JAX47-SB110	2/62	0.27 - 500	7.2	NA	37,000 N[13]	450,000[13]	FDEP	NA	No	BSL, FREQ
	72-20-8	Endrin	0.64 J	49 J	µg/kg	JAX47-SB110	6/62	0.37 - 500	49	NA	1,800 N	25,000	FDEP	NA	No	BSL
	7421-93-4	Endrin Aldehyde	0.17 J	0.76 J	µg/kg	JAX47-SB079	5/62	0.17 - 500	0.76	NA	1,800 N[14]	NA	FDEP	NA	No	BSL
	53494-70-5	Endrin Ketone	0.42 J	20.5	µg/kg	JAX47-SB010	6/62	0.31 - 500	20.5	NA	1,800 N[14]	NA	FDEP	NA	No	BSL
	58-89-9	**gamma-BHC (Lindane)**	0.32 J	4000	µg/kg	JX01247	9/62	0.17 - 260	4000	NA	**440 C**		FDEP	NA	**Yes**	ASL
	5103-74-2	**gamma-Chlordane**	0.26 J	47000	µg/kg	JX01296	30/62	0.24 - 260	47000	NA	**1,600 C[11]**	**2,800[11]**	FDEP	72,000 C	**Yes**	ASL
	76-44-8	**Heptachlor**	0.29 J	190 J	µg/kg	JAX47-SB110	5/62	0.24 - 260	190	NA	**110 C**	200	FDEP	4,100 C	**Yes**	ASL
	1024-57-3	**Heptachlor Epoxide**	0.96 J	280 J	µg/kg	JAX47-SB110	10/62	0.58 - 260	280	NA	**53 C**	**100**	FDEP	4,700 C	**Yes**	ASL
	72-43-5	Methoxychlor	0.49 J	13.5	µg/kg	JAX47-SB010	4/62	0.34 - 2600	13.5	NA	31,000 N	420,000	FDEP	NA	No	BSL
	Inorganics															
	7440-38-2	**Arsenic**	0.2	132	mg/kg	JAX47-SB105	24/56	0.2 - 1.1	132	NA	**0.39 C**	**2.1**	FDEP	760 C	**Yes**	ASL

TABLE 2.3
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - DIRECT CONTACT
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Subsurface Soil
Exposure Medium: Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	USEPA SSL Soil to Air[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - The risk-based COPC screening level for residential exposures to soil is presented. The value is based on a target Hazard Quotient of 0.1 for non-carcinogens (denoted with a "N" flag) or an incremental cancer risk of 1E-6 for carcinogens (denoted with a "C" flag) (USEPA, Region 9, October 2004). The RBCs for non-carcinogenic compounds are divided by 10.
7 - Soil Cleanup Target Levels taken from Table II, FAC 62-777 (FDEP, February 2005).
8 - USEPA Soil Screening Levels, USEPA Internet Site at http://risk.lsd.ornl.gov/calc_start.htm (SSLs for non-carcinogens are divided by 10).
9 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
10 - Value is for pyrene
11 - Value is for chlordane.
12 - Value is for alpha-BHC.
13 - Value is for endosulfan.
14 - Value is for endrin.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
N = Non-carcinogen
NA = Not Applicable/Not Available
max = ceiling limit
sat = soil saturation limit
SSL = Soil Screening Level

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BSL = Below COPC Screening Level/ARAR/TBC

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - MIGRATION TO GROUNDWATER
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Subsurface Soil
Exposure Medium: Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	USEPA SSL Soil to Groundwater[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	COPC Flag[8]	Rationale for Contaminant Deletion or Selection
PSC 47	**Volatile Organic Compounds**														
	78-93-3	2-Butanone	43	43	µg/kg	JAX47-SB010	1/2	1.3 - 1.3	43	NA	89000 N	17000	FDEP	No	BSL
	67-64-1	Acetone	43	43.2 J	µg/kg	JAX47-SB118	2/2	-	43.2	NA	130000 N	25000	FDEP	No	BSL
	75-09-2	Methylene Chloride	5.1 J	8	µg/kg	JAX47-SB010	2/2	-	8	NA	23 C	20	FDEP	No	BSL
	108-88-3	Toluene	6 J	6 J	µg/kg	JAX47-SB010	1/2	0.2 - 0.2	6	NA	12000 MCL	500	FDEP	No	BSL
	Semivolatile Organics Compounds														
	CALC013	BaP Equivalent	410	410	µg/kg	JAX47-SB010	1/2	134 - 134	410	NA	8200 MCL	8000	FDEP	No	BSL
	56-55-3	Benzo(a)anthracene	86 J	86 J	µg/kg	JAX47-SB010	1/2	180 - 180	86	NA	3200 C	800	FDEP	No	BSL
	50-32-8	Benzo(a)pyrene	120 J	120 J	µg/kg	JAX47-SB010	1/2	134 - 134	120	NA	8200 MCL	8000	FDEP	No	BSL
	205-99-2	Benzo(b)fluoranthene	180 J	180 J	µg/kg	JAX47-SB010	1/2	126 - 126	180	NA	9800 C	2400	FDEP	No	BSL
	191-24-2	Benzo(g,h,i)perylene	110 J	110 J	µg/kg	JAX47-SB010	1/2	160 - 160	110	NA	NA	32000000	FDEP	No	BSL
	207-08-9	Benzo(k)fluoranthene	120 J	120 J	µg/kg	JAX47-SB010	1/2	153 - 153	120	NA	9800 C	24000	FDEP	No	BSL
	117-81-7	Bis(2-ethylhexyl)phthalate	88 J	88 J	µg/kg	JAX47-SB010	1/2	233 - 233	88	NA	3600000 MCL	3600000	FDEP	No	BSL
	218-01-9	Chrysene	170 J	170 J	µg/kg	JAX47-SB010	1/2	156 - 156	170	NA	3200 C	77000	FDEP	No	BSL
	206-44-0	Fluoranthene	190 J	190 J	µg/kg	JAX47-SB010	1/2	161 - 161	190	NA	6300000 N	1200000	FDEP	No	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	120 J	120 J	µg/kg	JAX47-SB010	1/2	218 - 218	120	NA	28000 C	6600	FDEP	No	BSL
	85-01-8	Phenanthrene	49 J	49 J	µg/kg	JAX47-SB010	1/2	161 - 161	49	NA	NA	250000	FDEP	No	BSL
	129-00-0	Pyrene	210 J	210 J	µg/kg	JAX47-SB010	1/2	168 - 168	210	NA	4600000 N	880000	FDEP	No	BSL
	Pesticides/PCBs														
	72-54-8	**4,4'-DDD**	0.67 J	220000	µg/kg	JX01296	30/62	0.31 - 5	220000	NA	**14000 C**	**5800**	FDEP	**Yes**	ASL
	72-55-9	**4,4'-DDE**	0.54 J	25000	µg/kg	JX01266	44/62	0.34 - 5	25000	NA	45000 C	**18000**	FDEP	**Yes**	ASL
	50-29-3	**4,4'-DDT**	0.33 J	420000	µg/kg	JX01266	46/62	0.15 - 5	420000	NA	**26000 C**	**11000**	FDEP	**Yes**	ASL
	309-00-2	Aldrin	0.24 J	0.24 J	µg/kg	JAX47-SB094	1/62	0.2 - 260	0.24	NA	500 C	200	FDEP	No	BSL, FREQ
	319-84-6	**alpha-BHC**	0.4 J	2500	µg/kg	JX01247	8/62	0.14 - 260	2500	NA	**0.72 C**	**0.3**	FDEP	**Yes**	ASL
	5103-71-9	**alpha-Chlordane**	0.32 J	37000	µg/kg	JX01296	27/62	0.27 - 5	37000	NA	**9600[9] MCL**	**9600[9]**	FDEP	**Yes**	ASL
	319-85-7	**beta-BHC**	0.44 J	4200	µg/kg	JX01247	17/62	0.34 - 260	4200	NA	**2.6 C**	**1**	FDEP	**Yes**	ASL
	319-86-8	**delta-BHC**	0.22 J	30000	µg/kg	JX01247	16/62	0.17 - 260	30000	NA	NA	**200**	FDEP	**Yes**	ASL
	60-57-1	**Dieldrin**	0.28 J	9000	µg/kg	JX01296	27/62	0.24 - 500	9000	NA	**4.6 C**	**2**	FDEP	**Yes**	ASL
	959-98-8	Endosulfan I	0.32 J	0.4 J	µg/kg	JAX47-SB080	3/62	0.27 - 260	0.4	NA	NA	3,800	FDEP	No	BSL, FREQ
	33213-65-9	Endosulfan II	0.31 J	39 J	µg/kg	JAX47-SB087	6/62	0.24 - 500	39	NA	NA	3,800	FDEP	No	BSL
	1031-07-8	Endosulfan Sulfate	0.42 J	7.2 J	µg/kg	JAX47-SB110	2/62	0.27 - 500	7.2	NA	NA	3,800	FDEP	No	BSL, FREQ
	72-20-8	Endrin	0.64 J	49 J	µg/kg	JAX47-SB110	6/62	0.37 - 500	49	NA	990 MCL	1000	FDEP	No	BSL
	7421-93-4	Endrin Aldehyde	0.17 J	0.76 J	µg/kg	JAX47-SB079	5/62	0.17 - 500	0.76	NA	NA	NA	FDEP	No	NTX
	53494-70-5	Endrin Ketone	0.42 J	20.5	µg/kg	JAX47-SB010	6/62	0.31 - 500	20.5	NA	NA	NA	FDEP	No	NTX
	58-89-9	**gamma-BHC (Lindane)**	0.32 J	4000	µg/kg	JX01247	9/62	0.17 - 260	4000	NA	**9.4 MCL**	**9**	FDEP	**Yes**	ASL
	5103-74-2	**gamma-Chlordane**	0.26 J	47000	µg/kg	JX01296	30/62	0.24 - 260	47000	NA	**9600[9] MCL**	**9600[9]**	FDEP	**Yes**	ASL
	76-44-8	Heptachlor	0.25 J	190 J	µg/kg	JAX47-SB110	5/62	0.24 - 260	190	NA	23000 MCL	23000	FDEP	No	BSL
	1024-57-3	Heptachlor Epoxide	0.96 J	280 J	µg/kg	JAX47-SB110	10/62	0.58 - 260	280	NA	670 MCL	600	FDEP	No	BSL
	72-43-5	Methoxychlor	0.49 J	13.5	µg/kg	JAX47-SB010	4/62	0.34 - 2600	13.5	NA	160000 MCL	160000	FDEP	No	BSL
	Inorganics														
	7440-38-2	**Arsenic**	0.2	132	mg/kg	JAX47-SB105	24/56	0.2 - 1.1	132	NA	**5.8 MCL**	NA	FDEP	**Yes**	ASL

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - MIGRATION TO GROUNDWATER
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Subsurface Soil
Exposure Medium: Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	USEPA SSL Soil to Groundwater[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	COPC Flag[8]	Rationale for Contaminant Deletion or Selection

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes
5 - Value presented is twice the mean concentration.
6 - USEPA Soil Screening Levels. USEPA Internet Site at http://risk.lsd.ornl.gov/calc_start.htm ,SSLs for non-carcinogens are divided by 10).
7 - Soil Cleanup Target Levels taken from Table II, FAC 62-777.
8 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.
9 - Value is for chlordane.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
Definitions Continued:
MCL = Maximum Contaminant Level
N = Non-carcinogen
NA = Not Applicable/Not Available
SSL = Soil Screening Level

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BKG = Within background levels
BSL = Below COPC Screening Level/ARAR/TBC
NTX = No toxicity criteria

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - DIRECT CONTACT
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
PSC 47	Volatile Organic Compounds																
	75-35-4	1,1-Dichloroethene	0.4 J	0.7 J	µg/L	JAX47-937-MW03S, JAX47-937-MW04S	4/34	0.2 - 0.2	0.7	NA	34 N	7	FDEP	7	NA	No	BSL
	120-82-1	**1,2,4-Trichlorobenzene**	1.8	8.6	µg/L	JAX47-MW13S	4/34	0.1 - 0.9	8.6	NA	**0.72 N**	70	FDEP	70	MCL	**Yes**	ASL
	96-12-8	**1,2-Dibromo-3-Chloropropane**	2.7	2.7	µg/L	JAX47-937-MW02S	1/34	0.3 - 0.3	2.7	NA	**0.0035 N**	200	FDEP	NA	MCL	**Yes**	ASL
	95-50-1	1,2-Dichlorobenzene	0.3 J	4.4 J	µg/L	JAX47-MW13S	4/34	0.2 - 0.2	4.4	NA	37 N	600	FDEP	600	MCL	No	BSL
	541-73-1	1,3-Dichlorobenzene	0.6 J	2 J	µg/L	JAX47-MW13S	2/34	0.2 - 0.2	2	NA	18 N	210	FDEP	NA	NA	No	BSL
	106-46-7	**1,4-Dichlorobenzene**	0.4 J	6.3 J	µg/L	JAX47-MW13S	4/34	0.1 - 0.1	6.3	NA	**0.5 C**	75	FDEP	75	MCL	**Yes**	ASL
	78-93-3	2-Butanone	4.06 J	4.06 J	µg/L	JAX47-MW30S	1/34	2 - 2	4.06	NA	700 N	4200	FDEP	NA	NA	No	BSL
	71-43-2	**Benzene**	0.22 J	14.6	µg/L	JAX47-937-MW05S	14/34	0.2 - 0.2	14.6	NA	**0.35 C**	**1**	FDEP	**5**	MCL	**Yes**	ASL
	75-25-2	Bromoform	1.5 J	1.5 J	µg/L	JAX47-937-MW02S	1/34	0.2 - 0.2	1.5	NA	8.5 C	4.4	FDEP	80	NA	No	BSL
	108-90-7	**Chlorobenzene**	0.2 J	12.7	µg/L	JAX47-MW11S	10/34	0.2 - 0.2	12.7	NA	**11 N**	100	FDEP	100	NA	**Yes**	ASL
	75-00-3	Chloroethane	1	1	µg/L	JAX47-937-MW02S	1/34	0.3 - 0.3	1	NA	4.6 C	12	FDEP	NA	NA	No	BSL
	67-66-3	**Chloroform**	0.37 J	0.37 J	µg/L	JAX47-MW30S	1/34	0.2 - 0.2	0.37	NA	**0.017 N**	70	FDEP	80	MCL	**Yes**	ASL
	156-59-2	**cis-1,2-Dichloroethene**	0.5 J	936	µg/L	JAX47-937-MW05S	15/34	0.2 - 0.2	936	NA	**6.1 N**	**70**	FDEP	**70**	MCL	**Yes**	ASL
	110-82-7	Cyclohexane	1.5	38.3	µg/L	JAX47-MW11S	2/34	0.4 - 0.45	38.3	NA	1000 N	NA	FDEP	NA	NA	No	BSL
	60-29-7	Diethyl Ether	0.8 J	0.9 J	µg/L	JAX47-937-MW05S	2/34	0.5 - 0.54	0.9	NA	120 N	750	FDEP	NA	NA	No	BSL
	100-41-4	**Ethylbenzene**	0.5 J	135	µg/L	JAX47-937-MW05S	8/34	0.3 - 0.3	135	NA	**130 N**	**30**	FDEP	700	MCL	**Yes**	ASL
	98-82-8	**Isopropylbenzene**	0.3 J	9	µg/L	JAX47-MW11S	10/34	0.1 - 0.1	9	NA	66 N	**0.8**	FDEP	NA	NA	**Yes**	ASL
	108-87-2	Methyl Cyclohexane	0.7 J	22.7 J	µg/L	JAX47-MW11S	3/34	0.55 - 0.6	22.7	NA	520 N	NA	FDEP	NA	NA	No	BSL
	1634-04-4	Methyl Tert-Butyl Ether	0.2 J	0.2 J	µg/L	JAX47-937-MW01S	1/34	0.2 - 0.2	0.2	NA	11 C	20	FDEP	NA	NA	No	BSL
	100-42-5	Styrene	0.75 J	1.7	µg/L	JAX47-937-MW02S	2/34	0.1 - 0.1	1.7	NA	160 N	100	FDEP	100	MCL	No	BSL
	127-18-4	**Tetrachloroethene**	0.9 J	4 J	µg/L	JAX47-937-MW04S	7/34	0.3 - 0.3	4	NA	**0.1 C**	**3**	FDEP	5	MCL	**Yes**	ASL
	108-88-3	Toluene	0.6 J	21.9 J	µg/L	JAX47-937-MW05S	5/34	0.2 - 0.51	21.9	NA	72 N	40	FDEP	1000	MCL	No	BSL
	1330-20-7	**Total Xylenes**	0.6 J	914	µg/L	JAX47-937-MW05S	8/34	0.3 - 0.43	914	NA	**21 N**	**20**	FDEP	10000	MCL	**Yes**	ASL
	156-60-5	**trans-1,2-Dichloroethene**	0.5 J	4.5	µg/L	JAX47-937-MW04S	6/34	0.2 - 0.2	4.5	NA	12 N	**1**	FDEP	100	MCL	**Yes**	ASL
	79-01-6	**Trichloroethene**	0.3 J	7.7	µg/L	JAX47-937-MW04S	11/34	0.3 - 0.3	7.7	NA	**0.028 C**	**3**	FDEP	**5**	MCL	**Yes**	ASL
	75-01-4	**Vinyl Chloride**	0.4 J	5.5	µg/L	JAX47-937-MW05S	6/34	0.4 - 0.4	5.5	NA	**0.02 C**	**1**	FDEP	**2**	MCL	**Yes**	ASL
	Semivolatile Organic Compounds																
	92-52-4	**1,1-Biphenyl**	5 J	8 J	µg/L	JAX47-MW11S	2/34	3 - 3	8	NA	30 N	**0.5**	FDEP	NA	NA	**Yes**	ASL
	95-95-4	**2,4,5-Trichlorophenol**	104	2720	µg/L	JAX47-937-MW03S	2/34	2 - 2	2720	NA	**360 N**	**1**	FDEP	NA	NA	**Yes**	ASL
	120-83-2	**2,4-Dichlorophenol**	6 J	529	µg/L	JAX47-937-MW03S	3/34	2 - 2	529	NA	**11 N**	**0.3**	FDEP	NA	NA	**Yes**	ASL
	105-67-9	2,4-Dimethylphenol	16	16	µg/L	JAX47-937-MW05S	1/34	2 - 2	16	NA	73 N	28	FDEP	NA	NA	No	BSL
	91-57-6	**2-Methylnaphthalene**	10 J	103	µg/L	JAX47-MW11S	3/34	2 - 2	103	NA	**0.62 N**	**28**	FDEP	NA	NA	**Yes**	ASL
	95-48-7	2-Methylphenol	6 J	6 J	µg/L	JAX47-937-MW05S	1/34	2 - 2	6	NA	180 N	35	FDEP	NA	NA	No	BSL
	84-66-2	Diethyl Phthalate	9 J	9 J	µg/L	JAX47-MW29S	1/34	2 - 2	9	NA	2900 N	5600	FDEP	NA	NA	No	BSL
	91-20-3	**Naphthalene**	14	194	µg/L	JAX47-MW11S	4/34	3 - 3	194	NA	**0.62 N**	**14**	FDEP	NA	NA	**Yes**	ASL
	87-86-5	**Pentachlorophenol**	11	12 J	µg/L	JAX47-937-MW04S	2/34	1 - 1	12	NA	**0.56 C**	**1**	FDEP	**1**	NA	**Yes**	ASL
	Pesticides/PCBs																
	72-54-8	**4,4'-DDD**	0.001 J	25 J	µg/L	JAX47-MW17S	10/34	0.0004 - 0.0004	25	NA	**0.28 C**	**0.1**	FDEP	NA	NA	**Yes**	ASL
	72-55-9	**4,4'-DDE**	0.002 J	0.13 J	µg/L	JAX47-937-MW05S	11/34	0.002 - 0.002	0.13	NA	0.2 C	**0.1**	FDEP	NA	NA	**Yes**	ASL
	50-29-3	**4,4'-DDT**	0.002 J	0.49	µg/L	JAX47-MW13S	8/34	0.002 - 0.003	0.49	NA	**0.2 C**	**0.1**	FDEP	NA	NA	**Yes**	ASL
	309-00-2	**Aldrin**	0.01 J	3.8 J	µg/L	JAX47-937-MW05S	7/34	0.002 - 0.002	3.8	NA	**0.004 C**	**0.002**	FDEP	NA	NA	**Yes**	ASL
	319-84-6	**alpha-BHC**	0.003 J	9.3	µg/L	JAX47-MW11S	9/34	0.001 - 0.002	9.3	NA	**0.011 C**	**0.006**	FDEP	NA	MCL	**Yes**	ASL
	5103-71-9	**alpha-Chlordane**	0.002 J	1.8	µg/L	JAX47-MW17S	12/34	0.001 - 0.001	1.8	NA	**0.19 C[16]**	2	FDEP	2	NA	**Yes**	ASL
	319-85-7	**beta-BHC**	0.003 J	3.9 J	µg/L	JAX47-937-MW04S	12/34	0.002 - 0.002	3.9	NA	**0.037 C**	**0.02**	FDEP	NA	NA	**Yes**	ASL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - DIRECT CONTACT
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[7]	Potential ARAR/TBC Value	Potential ARAR/TBC Source[8]	COPC Flag[9]	Rationale for Contaminant Deletion or Selection
	319-86-8	**delta-BHC**	0.002 J	8.3	µg/L	JAX47-MW11S	15/34	0.001 - 0.002	8.3	NA	**0.011 C[11]**	**2.1**	FDEP	NA	NA	**Yes**	ASL
	60-57-1	**Dieldrin**	0.003 J	0.32 J	µg/L	JAX47-937-MW03S	14/34	0.0008 - 0.0008	0.32	NA	**0.0042 C**	**0.002**	FDEP	NA	MCL	**Yes**	ASL
	959-98-8	Endosulfan I	0.011 J	0.077	µg/L	JAX47-MW17S	3/34	0.002 - 0.002	0.077	NA	22 N[12]	42[12]	FDEP	NA	NA	No	BSL
	33213-65-9	Endosulfan II	0.003 J	0.039 J	µg/L	JAX47-MW30S	8/34	0.002 - 0.002	0.039	NA	22 N[12]	42[12]	FDEP	NA	NA	No	BSL
	1031-07-8	Endosulfan Sulfate	0.005 J	0.21 J	µg/L	JAX47-937-MW05S	10/34	0.002 - 0.002	0.21	NA	22 N[12]	42[12]	FDEP	NA	NA	No	BSL
	72-20-8	Endrin	0.002 J	0.044 J	µg/L	JAX47-937-MW05S	6/34	0.002 - 0.003	0.044	NA	1.1 N	2	FDEP	2	MCL	No	BSL
	7421-93-4	Endrin Aldehyde	0.011 J	0.021 J	µg/L	JAX47-MW13S	1/34	0.009 - 0.009	0.021	NA	1.1 N[13]	2[13]	FDEP	NA	MCL	No	BSL
	53494-70-5	**Endrin Ketone**	0.004 J	4.7 J	µg/L	JAX47-937-MW02S	11/34	0.003 - 0.003	4.7	NA	**1.1 N[13]**	**2[13]**	FDEP	NA	NA	**Yes**	ASL
	58-89-9	**gamma-BHC (Lindane)**	0.002 J	15	µg/L	JAX47-MW11S	10/34	0.002 - 0.002	15	NA	**0.052 C**	**0.2**	FDEP	**0.2**	NA	**Yes**	ASL
	5103-74-2	**gamma-Chlordane**	0.018 J	1.1	µg/L	JAX47-MW17S	9/34	0.001 - 0.001	1.1	NA	**0.19 C[10]**	2	FDEP	2	NA	**Yes**	ASL
	76-44-8	**Heptachlor**	0.001 J	0.22	µg/L	JAX47-MW17D	11/34	0.001 - 0.001	0.22	NA	**0.015 C**	0.4	FDEP	0.4	MCL	**Yes**	ASL
	1024-57-3	**Heptachlor Epoxide**	0.004 J	0.62 J	µg/L	JAX47-MW14S	7/34	0.001 - 0.001	0.62	NA	**0.0074 C**	**0.2**	FDEP	**0.2**	NA	**Yes**	ASL
	72-43-5	Methoxychlor	0.011 J	1.1 J	µg/L	JAX47-MW11S, JAX47-937-MW05S	6/34	0.003 - 0.003	1.1	NA	18 N	40	FDEP	40	MCL	No	BSL
	Total Inorganics																
	7440-38-2	**Arsenic**	4.1	6640	µg/L	JAX47-937-MW02S	12/34	4 - 18.3	6640	**13.2**	**0.045 C**	**10**	FDEP	**10**	MCL	**Yes**	ASL
	Filtered Inorganics																
	7440-38-2	**Arsenic**	10	26	µg/L	JAX47-937-MW01S	2/4	4 - 4	26	**13.2**	**0.045 C**	**10**	FDEP	**10**	MCL	**Yes**	ASL

Footnotes
1 - Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.

Footnotes Continued
6 - The risk-based COPC screening level for tap water use is presented. The value is based on a target Hazard Quotient of 0.1 for non-carcinogens (denoted with a "N" flag) or an incremental cancer risk of 1E-6 for carcinogens (denoted with a "C" flag) (USEPA, Region 9, October 2004). The PRG for non-carcinogenic compounds are divided by 10.
7 - Groundwater Cleanup Target Levels taken from Table I, FAC 62-777 (FDEP, February 2005).
8 - 2006 Edition of the Drinking Water Standards and Health Advisories, USEPA (EPA 822-R-06-013) Summer 2006.
9 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level and/or ARAR/TBC(s) and background levels.
10 - Value is for chlordane
11 - Value is for alpha-BHC.
12 - Value is for endosulfan
13 - Value is for endrin

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore the chemical was retained as a COPC.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
FDEP = Florida Department of Environmental Protection
J = Estimated value with undetermined bias

Definitions
MCL = Maximum contaminant level
N = Non-carcinogen
NA = Not Applicable/Not Available

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BKG = Within background levels
BSL = Below COPC Screening Level/ARAR/TBC

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - VAPOR INTRUSION
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	COPC Flag[7]	Rationale for Contaminant Deletion or Selection
PSC 47	Volatile Organic Compounds												
	75-35-4	1,1-Dichloroethene	0.4 J	0.7 J	µg/L	JAX47-937-MW03S, JAX47-937-MW04S	4/34	0.2 - 0.2	0.7	NA	190 N	No	BSL
	120-82-1	1,2,4-Trichlorobenzene	1.8	8.6	µg/L	JAX47-MW13S	4/34	0.1 - 0.9	8.6	NA	3400 N	No	BSL
	96-12-8	1,2-Dibromo-3-Chloropropane	2.7	2.7	µg/L	JAX47-937-MW02S	1/34	0.3 - 0.3	2.7	NA	33 N	No	BSL
	95-50-1	1,2-Dichlorobenzene	0.3 J	4.4 J	µg/L	JAX47-MW13S	4/34	0.2 - 0.2	4.4	NA	2600 N	No	BSL
	541-73-1	1,3-Dichlorobenzene	0.6 J	2 J	µg/L	JAX47-MW13S	2/34	0.2 - 0.2	2	NA	830 N	No	BSL
	106-46-7	1,4-Dichlorobenzene	0.4 J	6.3 J	µg/L	JAX47-MW13S	4/34	0.1 - 0.1	6.3	NA	8200 N	No	BSL
	78-93-3	2-Butanone	4.06 J	4.06 J	µg/L	JAX47-MW30S	1/34	2 - 2	4.06	NA	440000 N	No	BSL
	71-43-2	**Benzene**	0.22 J	14.6	µg/L	JAX47-937-MW05S	14/34	0.2 - 0.2	14.6	NA	**5 MCL**	**Yes**	ASL
	75-25-2	**Bromoform**	1.5 J	1.5 J	µg/L	JAX47-937-MW02S	1/34	0.2 - 0.2	1.5	NA	**0.0083 C**	**Yes**	ASL
	108-90-7	Chlorobenzene	0.2 J	12.7	µg/L	JAX47-MW11S	10/34	0.2 - 0.2	12.7	NA	390 N	No	BSL
	75-00-3	Chloroethane	1	1	µg/L	JAX47-937-MW02S	1/34	0.3 - 0.3	1	NA	28000 C	No	BSL
	67-66-3	Chloroform	0.37 J	0.37 J	µg/L	JAX47-MW30S	1/34	0.2 - 0.2	0.37	NA	80 MCL	No	BSL
	156-59-2	**cis-1,2-Dichloroethene**	0.5 J	936	µg/L	JAX47-937-MW05S	15/34	0.2 - 0.2	936	NA	**210 N**	**Yes**	ASL
	110-82-7	Cyclohexane	1.5	38.3	µg/L	JAX47-MW11S	2/34	0.4 - 0.45	38.3	NA	NA	No	NTX
	60-29-7	Diethyl Ether	0.8 J	0.9 J	µg/L	JAX47-937-MW05S	2/34	0.5 - 0.54	0.9	NA	520 N	No	BSL
	100-41-4	Ethylbenzene	0.5 J	135	µg/L	JAX47-937-MW05S	8/34	0.3 - 0.3	135	NA	700 MCL	No	BSL
	98-82-8	**Isopropylbenzene**	0.3 J	9	µg/L	JAX47-MW11S	10/34	0.1 - 0.1	9	NA	**8.4 N**	**Yes**	ASL
	108-87-2	Methyl Cyclohexane	0.7 J	22.7 J	µg/L	JAX47-MW11S	3/34	0.55 - 0.6	22.7	NA	710 N	No	BSL
	1634-04-4	Methyl Tert-Butyl Ether	0.2 J	0.2 J	µg/L	JAX47-937-MW01S	1/34	0.2 - 0.2	0.2	NA	120000 C	No	BSL
	100-42-5	Styrene	0.75 J	1.7	µg/L	JAX47-937-MW02S	2/34	0.1 - 0.1	1.7	NA	8900 N	No	BSL
	127-18-4	Tetrachloroethene	0.9 J	4 J	µg/L	JAX47-937-MW04S	7/34	0.3 - 0.3	4	NA	5 MCL	No	BSL
	108-88-3	Toluene	0.6 J	21.9 J	µg/L	JAX47-937-MW05S	5/34	0.2 - 0.51	21.9	NA	1500 N	No	BSL
	1330-20-7	Total Xylenes	0.6 J	914	µg/L	JAX47-937-MW05S	8/34	0.3 - 0.43	914	NA	22000 N	No	BSL
	156-60-5	trans-1,2-Dichloroethene	0.5 J	4.5	µg/L	JAX47-937-MW04S	6/34	0.2 - 0.2	4.5	NA	180 N	No	BSL
	79-01-6	**Trichloroethene**	0.3 J	7.7	µg/L	JAX47-937-MW04S	11/34	0.3 - 0.3	7.7	NA	**5 MCL**	**Yes**	ASL
	75-01-4	**Vinyl Chloride**	0.4 J	5.5	µg/L	JAX47-937-MW05S	6/34	0.4 - 0.4	5.5	NA	**2 MCL**	**Yes**	ASL

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - VAPOR INTRUSION
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	COPC Flag[7]	Rationale for Contaminant Deletion or Selection
	Semivolatile Organic Compounds												
	92-52-4	1,1-Biphenyl	5 J	8 J	µg/L	JAX47-MW11S	2/34	3 - 3	8	NA	NA	No	NTX
	95-95-4	2,4,5-Trichlorophenol	104	2720	µg/L	JAX47-937-MW03S	2/34	2 - 2	2720	NA	NA	No	NTX
	120-83-2	2,4-Dichlorophenol	6 J	529	µg/L	JAX47-937-MW03S	3/34	2 - 2	529	NA	NA	No	NTX
	105-67-9	2,4-Dimethylphenol	16	16	µg/L	JAX47-937-MW05S	1/34	2 - 2	16	NA	NA	No	NTX
	91-57-6	2-Methylnaphthalene	10 J	103	µg/L	JAX47-MW11S	3/34	2 - 2	103	NA	3300 N	No	BSL
	95-48-7	2-Methylphenol	6 J	6 J	µg/L	JAX47-937-MW05S	1/34	2 - 2	6	NA	NA	No	NTX
	84-66-2	Diethyl Phthalate	9 J	9 J	µg/L	JAX47-MW29S	1/34	2 - 2	9	NA	NA	No	NTX
	91-20-3	**Naphthalene**	14	194	µg/L	JAX47-MW11S	4/34	3 - 3	194	NA	**150 N**	**Yes**	ASL
	87-86-5	Pentachlorophenol	11	12 J	µg/L	JAX47-937-MW04S	2/34	1 - 1	12	NA	NA	No	NTX
	Pesticides/PCBs												
	72-54-8	4,4'-DDD	0.001 J	25 J	µg/L	JAX47-MW17S	10/34	0.0004 - 0.0004	25	NA	NA	No	NTX
	72-55-9	4,4'-DDE	0.002 J	0.13 J	µg/L	JAX47-937-MW05S	11/34	0.002 - 0.002	0.13	NA	29 C	No	BSL
	50-29-3	4,4'-DDT	0.002 J	0.49	µg/L	JAX47-MW13S	8/34	0.002 - 0.003	0.49	NA	NA	No	NTX
	309-00-2	**Aldrin**	0.01 J	3.8 J	µg/L	JAX47-937-MW05S	7/34	0.002 - 0.002	3.8	NA	**0.071**	**Yes**	ASL
	319-84-6	**alpha-BHC**	0.003 J	9.3	µg/L	JAX47-MW11S	9/34	0.001 - 0.002	9.3	NA	**3.1 C**	**Yes**	ASL
	5103-71-9	alpha-Chlordane	0.002 J	1.8	µg/L	JAX47-MW17S	12/34	0.001 - 0.001	1.8	NA	12 C[8]	No	BSL
	319-85-7	beta-BHC	0.003 J	3.9 J	µg/L	JAX47-937-MW04S	12/34	0.002 - 0.002	3.9	NA	NA	No	NTX
	319-86-8	delta-BHC	0.002 J	8.3	µg/L	JAX47-MW11S	15/34	0.001 - 0.062	8.3	NA	NA	No	NTX
	60-57-1	Dieldrin	0.003 J	0.32 J	µg/L	JAX47-937-MW03S	14/34	0.0008 - 0.0008	0.32	NA	0.86 C	No	BSL
	959-98-8	Endosulfan I	0.011 J	0.077	µg/L	JAX47-MW17S	3/34	0.002 - 0.002	0.077	NA	NA	No	NTX
	33213-65-9	Endosulfan II	0.003 J	0.039 J	µg/L	JAX47-MW30S	8/34	0.002 - 0.002	0.039	NA	NA	No	NTX
	1031-07-8	Endosulfan Sulfate	0.005 J	0.21 J	µg/L	JAX47-937-MW05S	10/34	0.002 - 0.002	0.21	NA	NA	No	NTX
	72-20-8	Endrin	0.002 J	0.044 J	µg/L	JAX47-937-MW05S	6/34	0.002 - 0.003	0.044	NA	NA	No	NTX
	7421-93-4	Endrin Aldehyde	0.011 J	0.021 J	µg/L	JAX47-MW13S	1/34	0.009 - 0.009	0.021	NA	NA	No	NTX
	53494-70-5	Endrin Ketone	0.004 J	4.7 J	µg/L	JAX47-937-MW02S	11/34	0.003 - 0.003	4.7	NA	NA	No	NTX
	58-89-9	**gamma-BHC (Lindane)**	0.002 J	15	µg/L	JAX47-MW11S	10/34	0.002 - 0.002	15	NA	**11 C**	**Yes**	ASL
	5103-74-2	gamma-Chlordane	0.016 J	1.1	µg/L	JAX47-MW17S	9/34	0.001 - 0.001	1.1	NA	12 C[8]	No	BSL
	76-44-8	Heptachlor	0.001 J	0.22	µg/L	JAX47-MW17D	11/34	0.001 - 0.001	0.22	NA	0.4 MCL	No	BSL
	1024-57-3	Heptachlor Epoxide	0.004 J	0.62 J	µg/L	JAX47-MW14S	7/34	0.001 - 0.001	0.62	NA	NA	No	NTX
	72-43-5	Methoxychlor	0.011 J	1.1 J	µg/L	JAX47-MW11S, JAX47-937-MW05S	6/34	0.003 - 0.003	1.1	NA	NA	No	NTX

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN - VAPOR INTRUSION
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration[1]	Maximum Concentration[1]	Units	Location of Maximum Concentration	Detection Frequency[2]	Range of Nondetects[3]	Concentration Used for Screening[4]	Background Value[5]	Risk-Based COPC Screening Level[6]	COPC Flag[7]	Rationale for Contaminant Deletion or Selection

Footnotes
1- Sample and duplicate are considered as two separate samples when determining the minimum and maximum concentrations.
2 - Sample and duplicate are counted as one sample when determining frequency of detection.
3 - Values presented are sample-specific quantitation limits.
4 - The maximum detected concentration is used for screening purposes.
5 - Value presented is twice the mean concentration.
6 - Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils. November 2002. EPA530-F-02-052. Values are from Table 2c and correspond to a target cancer risk level of 1E-6 or HI =1.
7 - The chemical is selected as a COPC if the maximum detected concentration exceeds the risk-based COPC screening level.
8 - Value is for chlordane.

Shading indicates that the maximum detected concentration exceeded the screening criteria; therefore, the chemical was retained as a COPC.

Definitions:
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
C = Carcinogen
COPC = Chemical Of Potential Concern
J = Estimated value with undetermined bias
N = Non-carcinogen
NA = Not Applicable/Not Available

Rationale Codes:
For selection as a COPC
ASL = Above COPC Screening Level/ARAR/TBC

For elimination as a COPC:
BSL = Below COPC Screening Level/ARAR/TBC
NTX = No toxicity criteria available
FREQ = Frequency of detection

LIST OF TABLES
RAGS PART D TABLE 3
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Table No.	Reasonable Maximum Exposures
3.1.RME	Surface Soil
3-2.RME	Surface/Subsurface Soil
3-3.RME	Groundwater

TABLE 3.1.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
PSC 47 All Surface Soil Samples	Benzo(a)pyrene Equivalents	mg/kg	0.270	0.571 (N)	0.644	0.644	mg/kg	Maximum Detected Concentration	(1)
	4,4'-DDD	mg/kg	0.594	2.49 (NP)	17	2.49	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	4,4'-DDE	mg/kg	0.976	4.12 (L)	28	4.12	mg/kg	H-UCL	W-Test (3)
	4,4'-DDT	mg/kg	25.3	116 (L)	2700	116	mg/kg	95% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (4)
	Alpha-Chlordane	mg/kg	0.711	4.73 (NP)	50	4.73	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	Dieldrin	mg/kg	0.157	0.592 (NP)	3.4	0.592	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	Gamma-Chlordane	mg/kg	0.590	3.57 (NP)	37	3.57	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	Heptachlor	mg/kg	0.085	0.433 (NP)	3.4 J	0.433	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	Heptachlor Epoxide	mg/kg	0.067	0.223 (NP)	0.92	0.223	mg/kg	97.5% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (5)
	Arsenic	mg/kg	2.21	7.77 (NP)	47.4	7.77	mg/kg	97.5% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (5)

Notes:
N = Normal
NP = Non-parametric
L = Lognormal
J = Estimated value.
1 - There were less than 10 samples, therefore the maximum detected concentration was used for the exposure point concentration.
2 - The Shapiro-Wilks, Anderson-Darling, and Kolmogorov-Smirnov tests indicate that the data is non-parametric. The ProUCL guidance recommends that the 99% Chebyshev(Mean, Std) UCL be used as the exposure point concentration.
3 - The Shapiro-Wilks W test indicates that the data are lognormally distributed. The ProUCL guidance recommends that the H-UCL be used as the exposure point concentration.
4 - The Shapiro-Wilks W test indicates that the data are lognormally distributed. The ProUCL guidance recommends that the 95% Chebyshev(Mean, Std) UCL be used as the exposure point concentration.
5 - The Shapiro-Wilks, Anderson-Darling, and Kolmogorov-Smirnov tests indicate that the cata is non-parametric. The ProUCL guidance recommends that the 97.5% Chebyshev(Mean, Std) UCL be used as the exposure point concentration.

TABLE 3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Surface/Subsurface Soil
Exposure Medium: Surface/Subsurface Soil

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
PSC 47	Benzo(a)pyrene Equivalents	mg/kg	0.258	0.445 (N)	0.644	0.644	mg/kg	Maximum Detected Concentration	(1)
	4,4'-DDD	mg/kg	3.43	18.9 (NP)	220	18.9	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	4,4'-DDE	mg/kg	0.960	8.48 (L)	28	8.48	mg/kg	H-UCL	W-Test (3)
	4,4'-DDT	mg/kg	21.1	163 (NP)	2700 J	163	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	alpha-BHC	mg/kg	0.042	0.241 (NP)	2.5	0.241	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	alpha-Chlordane	mg/kg	0.680	4.00 (NP)	50 J	4.00	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	beta-BHC	mg/kg	0.059	0.226 (NP)	4.2	0.226	mg/kg	97.5% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (4)
	delta-BHC	mg/kg	0.280	1.92 (NP)	30	1.92	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	Dieldrin	mg/kg	0.202	0.838 (NP)	9	0.838	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	gamma-BHC (Lindane)	mg/kg	0.052	0.308 (NP)	4	0.308	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	gamma-Chlordane	mg/kg	0.672	3.83 (NP)	47	3.83	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	Heptachlor	mg/kg	0.042	0.204 (NP)	0.78	0.204	mg/kg	99% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (2)
	Heptachlor Epoxide	mg/kg	0.048	0.154 (NP)	0.92 J	0.154	mg/kg	97.5% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (4)
	Arsenic	mg/kg	3.75	12.1 (NP)	132	12.1	mg/kg	97.5% Chebyshev(Mean, Std) UCL	W-, A-D, & K-S Test (4)

Notes:
N = Normal
NP = Non-parametric
L = Lognormal
J = Estimated value.
1 - There were less than 10 samples, therefore the maximum detected concentration was used for the exposure point concentration.
2 - The Shapiro-Wilks, Anderson-Darling, and Kolmogorov-Smirnov tests indicate that the data is non-parametric. The ProUCL guidance recommends that the 99% Chebyshev(Mean, Std) UCL be used as the exposure point concentration.
3 - The Shapiro-Wilks W test indicates that the data are lognormally distributed. The ProUCL guidance recommends that the H-UCL be used as the exposure point concentration.
4 - The Shapiro-Wilks, Anderson-Darling, and Kolmogorov-Smirnov tests indicate that the data is non-parametric. The ProUCL guidance recommends that the 97.5% Chebyshev(Mean, Std) UCL be used as the exposure point concentration.

TABLE 3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Surficial Aquifer	1,2,4-Trichlorobenzene	ug/L	0.53	3.01 (NP)	8.6	0.53	ug/L	Mean	(1)
	1,2-Dibromo-3-Chloropropane	ug/L	0.23	0.352 (NP)	2.7	0.23	ug/L	Mean	(1)
	1,4-Dichlorobenzene	ug/L	0.46	2.78 (NP)	6.3 J	0.47	ug/L	Mean	(1)
	Benzene	ug/L	1.27	6.24 (NP)	14.6	1.27	ug/L	Mean	(1)
	Chlorobenzene	ug/L	0.79	4.64 (NP)	12.7	0.79	ug/L	Mean	(1)
	Chloroform	ug/L	0.108	0.121 (NP)	0.37 J	0.11	ug/L	Mean	(1)
	cis-1,2-Dichloroethene	ug/L	80	441 (NP)	936	80	ug/L	Mean	(1)
	Ethylbenzene	ug/L	6.2	46.2 (NP)	135	6.2	ug/L	Mean	(1)
	Isopropylbenzene	ug/L	0.85	4.05 (NP)	9	0.85	ug/L	Mean	(1)
	Tetrachloroethene	ug/L	0.65	2.63 (NP)	4 J	0.65	ug/L	Mean	(1)
	Total Xylenes	ug/L	33	300 (NP)	914	33	ug/L	Mean	(1)
	trans-1,2-Dichloroethene	ug/L	0.49	2.36 (NP)	4.5	0.49	ug/L	Mean	(1)
	Trichloroethene	ug/L	0.99	4.27 (NP)	7.7	0.99	ug/L	Mean	(1)
	Vinyl Chloride	ug/L	0.62	1.56 (NP)	5.5	0.62	ug/L	Mean	(1)
	1,1'- Biphenyl	ug/L	1.79	2.16 (NP)	8 J	1.79	ug/L	Mean	(1)
	2,4,5-Trichlorophenol	ug/L	84	879 (NP)	2720	84	ug/L	Mean	(1)
	2,4-Dichlorophenol	ug/L	19	175 (NP)	529	19	ug/L	Mean	(1)
	2-Methylnaphthalene	ug/L	5.0	35.4 (NP)	103	5.0	ug/L	Mean	(1)
	Naphthalene	ug/L	8.9	65.7 (NP)	194	8.9	ug/L	Mean	(1)
	Pentachlorophenol	ug/L	1.1	3.11 (NP)	12 J	1.2	ug/L	Mean	(1)
	4,4'-DDD	ug/L	1.39	3.83 (NP)	25 J	1.39	ug/L	Mean	(1)
	4,4'-DDE	ug/L	0.013	0.063 (NP)	0.13 J	0.013	ug/L	Mean	(1)
	4,4'-DDT	ug/L	0.015	0.142 (NP)	0.49	0.015	ug/L	Mean	(1)
	Aldrin	ug/L	0.37	2.14 (NP)	3.8 J	0.372	ug/L	Mean	(1)
	alpha-BHC	ug/L	0.51	3.43 (NP)	9.3	0.51	ug/L	Mean	(1)
	alpha-Chlordane	ug/L	0.106	0.664 (NP)	1.8	0.106	ug/L	Mean	(1)
	beta-BHC	ug/L	0.276	1.58 (NP)	3.9 J	0.276	ug/L	Mean	(1)
	delta-BHC	ug/L	0.61	3.45 (NP)	8.3	0.61	ug/L	Mean	(1)
	Dieldrin	ug/L	0.025	0.139 (NP)	0.32 J	0.025	ug/L	Mean	(1)
	Endrin Ketone	ug/L	0.183	1.58 (NP)	4.7 J	0.183	ug/L	Mean	(1)
	gamma-BHC (Lindane)	ug/L	0.72	5.29 (NP)	15	0.72	ug/L	Mean	(1)
	gamma-Chlordane	ug/L	0.047	0.375 (NP)	1.1	0.047	ug/L	Mean	(1)
	Heptachlor	ug/L	0.011	0.075 (NP)	0.22	0.011	ug/L	Mean	(1)
	Heptachlor Epoxide	ug/L	0.026	0.208 (NP)	0.62 J	0.026	ug/L	Mean	(1)
	Arsenic	ug/L	446	3114 (NP)	6640	446	ug/L	Mean	(1)

Notes:
For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
Statistics: Mean of Normal Data (Mean-N).
(1) - Mean concentration is used as the exposure point concentration for groundwater in accordance with EPA Region IV guidance.

LIST OF TABLES
RAGS PART D TABLE 4
VALUES USED FOR DAILY INTAKE CALCULATIONS

Table No.	Reasonable Maximum Exposures
4.1.RME	Construction Workers Exposed to Surface/Subsurface Soil
4.2.RME	Construction Workers Exposed to Air Emissions from Surface/Subsurface Soil
4.3.RME	Construction Workers Exposed to Groundwater
4.4.RME	Construction Workers Exposed to Chemicals that Volatilized from Groundwater
4.5.RME	Maintenace Workers Exposed to Surface Soil
4.6.RME	Maintenance Workers Exposed to Air Emissions from Surface Soil
4.7.RME	Occupational Workers Exposed to Surface Soil
4.8.RME	Occupational Workers Exposed to Air Emissions from Surface Soil
4.9.RME	Adolescent Trespassers Exposed to Surface Soil
4.1.RME	Adolescent Trespassers Exposed to Air Emissions from Surface Soil
4.11.RME	Adult Trespassers Exposed to Surface Soil
4.12.RME	Adult Trespassers Exposed to Air Emissions from Surface Soil
4.13.RME	Child Residents Exposed to Surface/Subsurface Soil
4.14.RME	Child Residents Exposed to Air Emissions from Surface/Subsurface Soil
4.15.RME	Child Residents Exposed to Groundwater
4.16.RME	Adult Residents Exposed to Surface/Subsurface Soil
4.17.RME	Adult Residents Exposed to Air Emissions from Surface/Subsurface Soil
4.18.RME	Adult Residents Exposed to Groundwater

TABLE 4.1.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil/Subsurface Soil
Exposure Medium: Surface/Subsurface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Construction Workers	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002a	Intake (mg/kg/day) =
				IR-S	Ingestion Rate	330	mg/day	U.S. EPA, 2002b	
				CF3	Conversion Factor 3	0.000001	kg/mg	--	$\frac{Cs \times IRS \times CF3 \times FI \times EF \times ED}{BW \times AT}$
				FI	Fraction Ingested	1	unitless	U.S. EPA, 2002b	
				EF	Exposure Frequency	90	days/year	(1)	
				ED	Exposure Duration	1	years	(1)	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	U.S. EPA, 1989	
Dermal	Construction Workers	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002a	Dermally Absorbed Dose (mg/kg/day) =
				CF3	Conversion Factor 3	0.000001	kg/mg	--	
				SA	Skin Surface Available for Contact	3300	cm2	U.S. EPA, 2004	$\frac{CS \times CF3 \times SA \times SSAF \times DABS \times EF \times ED}{BW \times AT}$
				SSAF	Soil to Skin Adherence Factor	0.3	mg/cm2/event	U.S. EPA, 2004	
				DABS	Absorption Factor	Chemical Specific	unitless	U.S. EPA, 2004	
				EF	Exposure Frequency	90	days/year	(1)	
				ED	Exposure Duration	1	years	(1)	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	U.S. EPA, 1989	

Notes:

1 - Professional judgement.

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund, Vol 1: Human Health Evaluation Manual, Part A.

U.S. EPA, 1993: Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure.

U.S. EPA, 2002a: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2002b: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24.

U.S. EPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Incidental Ingestion Intake = (IR-S x CF3 x FI x EF x ED)/(BW x AT)

Dermal Intake = (CF3 x SA x SSAF x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 1.66E-08 Cancer Dermal Intake = 4.98E-08

Noncancer Ingestion Intake = 1.16E-06 Noncancer Dermal Intake = 3.49E-06

TABLE 4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Surface/Subsurface Soil
Exposure Medium: Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Construction Workers	Adult	PSC 47	CA	Chemical concentration in air	Calculated	mg/m3	U.S. EPA, 1996.	Intake (mg/kg/day) =
				Cs	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002a	
				IR	Inhalation Rate	2.5	m3/hour	U.S. EPA, 1993	$\frac{CA \times IR \times ET \times EF \times ED}{BW \times AT}$
				ET	Exposure Time	8	hours/day	(1)	
				EF	Exposure Frequency	90	days/year	(1)	
				ED	Exposure Duration	1	years	(1)	CA = (1/PEF + 1/VF) x Cs
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	U.S. EPA, 1989	
				PEF	Particulate Emission Factor	1.49E+06	m3/kg	U.S. EPA, 2002b	
				VF	Volatilization Factor	Chemical-specific	m3/kg	U.S. EPA, 2002b	
				Q/C	Inverse of mean concentration at center of source	14.31	g/m2-s per kg/m3	U.S. EPA, 2002b	
				F_D	dispersion correction factor	0.185	unitless	U.S. EPA, 2002b	

Notes:

1 - Professional judgement.

Sources:

U.S. EPA, 1985: Rapid Assessment of Exposure to Particulate Emissions from Surface Contamination Sites. PB85-192219.

U.S. EPA, 1989: Risk Assessment Guidance for Superfund, Vol 1: Human Health Evaluation Manual, Part A. EPA/540/1-86/060.

U.S. EPA, 1993: Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure.

U.S. EPA, 2002a: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2002b: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24.

Unit Intake Calculations

Inhalation Intake = (IR x ET x EF x ED)/(BW x AT)

Cancer Inhalation Intake = 1.61E-03 Noncancer Inhalation Intake = 7.05E-02

TABLE 4.3 RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Construction Workers	Adult	PSC 47	DAevent	Dermally Absorbed Dose per Event	Calculated	mg/cm2-event	U.S. EPA, 2004	Dermally Absorbed Dose (mg/kg/day) =
				SA	Skin Surface Available for Contact	3300	cm2	U.S. EPA, 2004	
				EV	Event Frequency	1	events/day	(1)	DAevent x EV x EF x ED x SA
				ET	Exposure Time	4	hours/day	(1)	BW x AT
				EF	Exposure Frequency	30	days/year	(1)	
				ED	Exposure Duration	1	years	(1)	See text for calculation of DAevent.
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	U.S. EPA, 1989	

Sources:

1 - Professional judgment.

U.S. EPA, 1989: Risk Assessment Guidance for Superfund, Vol 1: Human Health Evaluation Manual, Part A. EPA/540/1-86/060.

U.S. EPA, 1993: Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure.

U.S. EPA, 2000: Supplemental Guidance to RAGS: Region 4 Bulletins, Human Health Risk Assessment Bulletins. EPA Region 4. Website version last updated May 2000: http://www.epa.gov/region4/waste/oftecser/healtbul.htm.

U.S. EPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Ingestion Intake = (IR-GW x EF x ED)/(BW x AT)

Dermal Intake = (SA x EV x EF x ED)/(BW x AT)

Cancer Ingestion Intake = NA

Noncancer Ingestion Intake = NA

Cancer Dermal Intake = 5.54E-02

Noncancer Dermal Intake = 3.87E+00

TABLE 4.4.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Inhalation	Construction Workers	Adult	PSC 47	CA	Chemical concentration in air	Calculated	mg/m3	VDEQ, 2002	Intake (mg/kg/day) =
				CW	Chemical concentration in water.	Average	ug/L	U.S. EPA, 2000	
				CF	Conversion Factor	0.001	mg/ug	--	CA x IR x ET x EF x ED
				IR	Inhalation Rate	2.5	m3/hour	U.S. EPA, 1991	BW x AT
				ET	Exposure Time	4	hours/day	(1)	
				EF	Exposure Frequency	30	days/year	(1)	CA = CW x CF x VF
				ED	Exposure Duration	1	years	(1)	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	U.S. EPA, 1989	
				VF	Volatilization Factor	Calculated	(mg/m3)/(mg/L)	VDEQ, 2002	

Notes:

1 - Professional judgment.

U.S. EPA, 1989: Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. EPA/540/1-86/060.

U.S. EPA, 1991: Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure.

U.S. EPA, 2000: Supplemental Guidance to RAGS: Region 4 Bulletins, Human Health Risk Assessment Bulletins. EPA Region 4. Website version last updated May 2000: http://www.epa.gov/region4/waste/oftecser/healtbul.htm.

VDEQ, 2002: Virginia Department of Environmental Quality (VDEQ, online- http://www.deq.state.va.ua/brownfield/vrp.html).

Unit Intake Calculations

Inhalation Intake = (IR x ET x EF x ED)/(BW x AT)

Cancer Inhalation Intake = 1.68E-07 Noncancer Inhalation Intake = 1.17E-05

TABLE 4.5.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Maintenance Workers	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Intake (mg/kg/day) =
				IR-S	Ingestion Rate	50	mg/day	U.S. EPA, 1991	
				CF3	Conversion Factor 3	0.000001	kg/mg	--	CS x IRS x CF3 x FI x EF x ED
				FI	Fraction Ingested	1	unitless	U.S. EPA, 1991	BW x AT
				EF	Exposure Frequency	30	days/year	(1)	
				ED	Exposure Duration	25	years	U.S. EPA, 1991	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9125	days	U.S. EPA, 1989	
Dermal	Maintenance Workers	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Dermally Absorbed Dose (mg/kg/day) =
				CF3	Conversion Factor 3	0.000001	kg/mg	--	
				SA	Skin Surface Available for Contact	3300	cm2	U.S. EPA, 2004	CS x CF3 x SA x SSAF x DABS x EF x ED
				SSAF	Soil to Skin Adherence Factor	0.2	mg/cm2/event	U.S. EPA, 2004	BW x AT
				DABS	Absorption Factor	Chemical Specific	unitless	U.S. EPA, 2004	
				EF	Exposure Frequency	24	days/year	(1)	
				ED	Exposure Duration	25	years	U.S. EPA, 1991	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9125	days	U.S. EPA, 1989	

Notes:

(1) - Professional Judgement.

Sources:

U.S. EPA, 1989. Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A.

U.S. EPA, 1991. Human Health Evaluation Manual, Supplemental Guidance. Standard Default Exposure Factors. OSWER Directive 9285.6-03.

U.S. EPA, 2002. Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2004. Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Incidental Ingestion Intake = (IR-S x CF3 x FI x EF x ED)/(BW x AT)

Dermal Intake = (CF3 x SA x SSAF x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 2.10E-08 Cancer Dermal Intake = 2.21E-07

Noncancer Ingestion Intake = 5.67E-08 Noncancer Dermal Intake = 6.20E-07

TABLE 4.6.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Maintenance Workers	Adult	PSC 47	CA	Chemical concentration in air	Calculated	mg/m3	U.S. EPA, 1996.	Intake (mg/kg/day) =
				Cs	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	
				IR	Inhalation Rate	2.5	m3/hour	U.S. EPA, 1997	$\frac{CA \times IR \times ET \times EF \times ED}{BW \times AT}$
				ET	Exposure Time	8	hours/day	U.S. EPA, 1991	
				EF	Exposure Frequency	30	days/year	(1)	
				ED	Exposure Duration	25	years	U.S. EPA, 1991	CA = (1/PEF + 1/VF) x Cs
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9125	days	U.S. EPA, 1989	
				PEF	Particulate Emission Factor	1.24E+09	m3/kg	FDEP, 2005	
				VF	Volatilization Factor	Chemical-specific	m3/kg	U.S. EPA, 1996	

Notes:

1 - Professional Judgement.

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. U.S. EPA/540/1-86/060.

U.S. EPA, 1991: Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors. OSWER Directive 9285.6-03.

U.S. EPA, 1993: Superfund Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure.

U.S. EPA, 1996: Soil Screening Level Guidance.

U.S. EPA, 1997: Exposure Factors Handbook. U.S. EPA/600/8-95/002FA.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

FDEP, 2005: Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777 F.A.C.

Unit Intake Calculations

Inhalation Intake = (IR x ET x EF x ED)/(BW x AT)

Cancer Inhalation Intake = 8.39E-03 Noncancer Inhalation Intake = 2.35E-02

TABLE 4.7.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Occupational Worker	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Intake (mg/kg/day) =
				IR-S	Ingestion Rate	100	mg/day	U.S. EPA, 1991	
				CF3	Conversion Factor 3	0.000001	kg/mg	--	CS x IRS x CF3 x FI x EF x ED
				FI	Fraction Ingested	1	unitless	U.S. EPA, 1991	BW x AT
				EF	Exposure Frequency	250	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	25	years	U.S. EPA, 1991	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9125	days	U.S. EPA, 1989	
Dermal	Occupational Worker	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Dermally Absorbed Dose (mg/kg/day) =
				CF3	Conversion Factor 3	0.000001	kg/mg	--	
				SA	Skin Surface Available for Contact	3300	cm2	U.S. EPA, 2004	CS x CF3 x SA x SSAF x DABS x EF x ED
				SSAF	Soil to Skin Adherence Factor	0.2	mg/cm2/event	U.S. EPA, 2004	BW x AT
				DABS	Absorption Factor	Chemical Specific	unitless	U.S. EPA, 2004	
				EF	Exposure Frequency	250	days/year	U.S. EPA, 1989	
				ED	Exposure Duration	25	years	U.S. EPA, 1989	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9125	days	U.S. EPA, 1989	

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A.

U.S. EPA, 1991: Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors. OSWER Directive 9285.6-03.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit ntake Calculations

Incidental Ingestion Intake = (iR-S x CF3 x FI x EF x ED)/(BW x AT)

Dermal Intake = (CF3 x SA x SSAF x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 3.49E-07 Cancer Dermal Intake = 2.31E-06

Noncancer Ingestion Intake = 9.78E-07 Noncancer Dermal Intake = 6.46E-06

TABLE 4.8.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Industrial Worker	Adult	PSC 47	CA	Chemical concentration in air	Calculated	mg/m3	U.S. EPA, 1996	Intake (mg/kg/day) =
				CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	
				IR	Inhalation Rate	2.5	m3/hour	U.S. EPA, 1997	$\frac{CA \times IR \times ET \times EF \times ED}{BW \times AT}$
				ET	Exposure Time	8	hours/day	U.S. EPA, 1991	
				EF	Exposure Frequency	250	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	25	years	U.S. EPA, 1991	CA = (1/PEF + 1/VF) x Cs
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9125	days	U.S. EPA, 1989	
				PEF	Particulate Emission Factor	1.24E+09	m3/kg	FDEP, 2005	
				VF	Volatilization Factor	Chemical-specific	m3/kg	U.S. EPA, 1996	

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. U.S. EPA/540/1-89/060.

U.S. EPA, 1996: Soil Screening Level Guidance.

U.S. EPA, 1997: Exposure Factors Handbook. U.S. EPA/600/8-95/002FA.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

FDEP, 2005: Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.

Unit Intake Calculations

Inhalation Intake = (IR x ET x EF x ED)/(BW x AT)

Cancer Inhalation Intake = 6.99E-02 Noncancer Inhalation Intake = 1.96E-01

TABLE 4.9.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Trespasser	Adolescent	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Intake (mg/kg/day) =
				IR-S	Ingestion Rate	100	mg/day	U.S. EPA, 1991	
				CF3	Conversion Factor 3	0.000001	kg/mg	--	CS x IRS x CF3 x FI x EF x ED
				FI	Fraction Ingested	1	unitless	U.S. EPA, 1991	BW x AT
				EF	Exposure Frequency	100	days/year	(1)	
				ED	Exposure Duration	10	years	(2)	
				BW	Body Weight	45	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3650	days	U.S. EPA, 1989	
Dermal	Trespasser	Adolescent	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Dermally Absorbed Dose (mg/kg/day) =
				CF3	Conversion Factor 3	0.000001	kg/mg	--	
				SA	Skin Surface Available for Contact	3280	cm2	(3)	CS x CF3 x SA x SSAF x DABS x EF x ED
				SSAF	Soil to Skin Adherence Factor	0.2	mg/cm2/event	U.S. EPA, 2004	BW x AT
				DABS	Absorption Factor	Chemical Specific	unitless	U.S. EPA, 2004	
				EF	Exposure Frequency	100	days/year	(1)	
				ED	Exposure Duration	10	years	(2)	
				BW	Body Weight	45	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3650	days	U.S. EPA, 1989	

Notes:

1 - Assume one day a week in warm weather months for RME and one day every other week for CTE.

2 - Adolescents from age 6 to 17.

3 - Assumes that 25 percent of the total body surface area is exposed (U.S. EPA, 1997).

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. EPA/540/1-86/060.

U.S. EPA, 1991: Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors. OSWER Directive 9285.6-03.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Incidental Ingestion Intake = (IR-S x CF3 x FI x EF x ED)/(BW x AT)

Dermal Intake = (CF3 x SA x SSAF x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 3.70E-08 Cancer Dermal Intake = 5.71E-07

Noncancer Ingestion Intake = 6.03E-07 Noncancer Dermal Intake = 3.99E-06

TABLE 4.10.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Trespasser	Adolescent	PSC 47	CA	Chemical concentration in air	Calculated	mg/m3	U.S. EPA, 1996.	Intake (mg/kg/day) =
				Cs	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	
				IR	Inhalation Rate	1.2	m3/hour	U.S. EPA, 1997	CA x IR x ET x EF x ED
				ET	Exposure Time	4	hours/day	(1)	BW x AT
				EF	Exposure Frequency	100	days/year	(2)	
				ED	Exposure Duration	10	years	(3)	CA = (1/PEF + 1/VF) x Cs
				BW	Body Weight	45	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3,650	days	U.S. EPA, 1989	
				PEF	Particulate Emission Factor	1.24E+09	m3/kg	FDEP, 2005	
				VF	Volatilization Factor	Chemical-specific	m3/kg	U.S. EPA, 1996	

Notes:

1 - Professional judgement.

2 - Assume one day a week in warm weather months for RME and one day every other week for CTE.

3 - Adolescents from age 6 to 17.

Sources:

U.S. EPA, 1989. Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. U.S. EPA/540/1-86/060.

U.S. EPA, 1996. Soil Screening Level Guidance.

U.S. EPA, 1997. Exposure Factors Handbook. U.S. EPA/600/8-95/002FA.

U.S. EPA, 2002. Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

FDEP, 2005. Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.

Unit Intake Calculations

Inhalation Intake = (IR x ET x EF x ED)/(BW x AT)

Cancer Inhalation Intake = 4.17E-03 Noncancer Inhalation Intake = 2.92E-02

TABLE 4.11.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Trespasser	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Intake (mg/kg/day) =
				IR-S	Ingestion Rate	100	mg/day	U.S. EPA, 1991	
				CF3	Conversion Factor 3	0.000001	kg/mg	--	CS x IRS x CF3 x FI x EF x ED
				FI	Fraction Ingested	1	unitless	U.S. EPA, 1991	BW x AT
				EF	Exposure Frequency	45	days/year	(1)	
				ED	Exposure Duration	20	years	(2)	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	7300	days	U.S. EPA, 1989	
Dermal	Trespasser	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Dermally Absorbed Dose (mg/kg/day) =
				CF3	Conversion Factor 3	0.000001	kg/mg	--	
				SA	Skin Surface Available for Contact	5700	cm2	(3)	CS x CF3 x SA x SSAF x DABS x EF x ED
				SSAF	Soil to Skin Adherence Factor	0.07	mg/cm2/event	U.S. EPA, 2004	BW x AT
				DABS	Absorption Factor	Chemical Specific	unitless	U.S. EPA, 2004	
				EF	Exposure Frequency	45	days/year	(1)	
				ED	Exposure Duration	20	years	(2)	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	7300	days	U.S. EPA, 1989	

Notes:

1 - Assume one day a week in warm weather months for RME and one day every other week for CTE.

2 - Professional judgment.

3 - Assumes that 25 percent of the total body surface area is exposed (U.S. EPA, 2001).

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. EPA/540/1-86/060.

U.S. EPA, 1991: Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors. OSWER Directive 9285.6-03.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Incidental Ingestion Intake = (IR-S x CF3 x FI x EF x ED)/(BW x AT)

Dermal Intake = (CF3 x SA x SSAF x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 5.03E-08 Cancer Dermal Intake = 2.01E-07

Noncancer Ingestion Intake = 1.76E-07 Noncancer Dermal Intake = 7.03E-07

TABLE 4.12.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Trespasser	Adolescent	PSC 47	CA	Chemical concentration in air	Calculated	mg/m3	U.S. EPA, 1996.	Intake (mg/kg/day) =
				Cs	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	
				IR	Inhalation Rate	1.6	m3/hour	U.S. EPA, 1997	CA x IR x ET x EF x ED
				ET	Exposure Time	4	hours/day	(1)	BW x AT
				EF	Exposure Frecuency	100	days/year	(1)	
				ED	Exposure Duration	20	years	(2)	CA = (1/PEF + 1/VF) x Cs
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	7,300	days	U.S. EPA, 1989	
				PEF	Particulate Emission Factor	1.24E+09	m3/kg	FDEP, 2005	
				VF	Volatilization Factor	Chemical-specific	m3/kg	U.S. EPA, 1996	

Notes:

1 - Assume one day a week in warm weather months for RME and one day every other week for CTE.

2 - Professional judgment.

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund, Vol 1: Human Health Evaluation Manual, Part A. U.S. EPA/540/1-86/060.

U.S. EPA, 1996: Soil Screening Level Guidance.

U.S. EPA, 1997: Exposure Factors Handbook. U.S. EPA/600/8-95/002FA.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

FDEP, 2005: Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.

Unit Intake Calculations

Inhalation Intake = (IR x ET x EF x ED)/(BW x AT)

Cancer Inhalation Intake = 7.16E-03 Noncancer Inhalation Intake = 2.50E-02

TABLE 4.13.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil/Subsurface Soil
Exposure Medium: Surface/Subsurface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Resident	Child	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Intake (mg/kg/day) =
				IR-S	Ingestion Rate	200	mg/day	U.S. EPA, 1991	
				CF3	Conversion Factor 3	1.0E-06	kg/mg	--	CS x IRS x CF3 x FI x EF x ED
				FI	Fraction Ingested	1	unitless	U.S. EPA, 1991	BW x AT
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	6	years	U.S. EPA, 1991	
				BW	Body Weight	15	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	U.S. EPA, 1989	
Dermal	Resident	Child	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Dermally Absorbed Dose (mg/kg/day) =
				CF3	Conversion Factor 3	1E-06	kg/mg	--	
				SA	Skin Surface Available for Contact	2,600	cm2	U.S. EPA, 2004	CS x CF3 x SA x SSAF x DABS x EF x ED
				SSAF	Soil to Skin Adherence Factor	0.2	mg/cm2/event	U.S. EPA, 2004	BW x AT
				DABS	Absorption Factor	Chemical Specific	unitless	U.S. EPA, 2004	
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	6	years	U.S. EPA, 1991	
				BW	Body Weight	15	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	U.S. EPA, 1989	

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. EPA/540/1-86/060.

U.S. EPA, 1991: Risk Assessment Guidance for Superfund - Supplemental Guidance- Standard Default Exposure Factors Interim Final.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Incidental Ingestion Intake = (IR-S x CF3 x FI x EF x ED)/(BW x AT)

Dermal Intake = (CF3 x SA x SSAF x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 1.10E-06 Cancer Dermal Intake = 3.07E-06

Noncancer Ingestion Intake = 1.28E-05 Noncancer Dermal Intake = 3.58E-05

TABLE 4.14.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface/Subsurface Soil
Exposure Medium: Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Resident	Child	PSC 47	CA	Chemical concentration in air	Calculated	mg/m3	U.S. EPA, 1996.	Intake (mg/kg/day) =
				Cs	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	
				IR	Inhalation Rate	0.34	m3/hour	U.S. EPA, 1991	CA x IR x ET x EF x ED
				ET	Exposure Time	24	hours/day	U.S. EPA, 1991	BW x AT
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	6	years	U.S. EPA, 1991	CA = (1/PEF + 1/VF) x Cs
				BW	Body Weight	15	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2190	days	U.S. EPA, 1989	
				PEF	Particulate Emission Factor	1.24E+09	m3/kg	FDEP, 2005	
				VF	Volatilization Factor	Chemical-specific	m3/kg	U.S. EPA, 1996	

Notes:

U.S. EPA, 1989. Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. U.S. EPA/540/1-86/060.

U.S. EPA, 1991: Risk Assessment Guidance for Superfund - Supplemental Guidance- Standard Default Exposure Factors Interim Final.

U.S. EPA, 1996: Soil Screening Level Guidance. U.S. EPA/540/R95/128.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

FDEP, 2005: Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777 F.A.C.

Unit Intake Calculations

Inhalation Intake = (IR x ET x EF x ED)/(BW x AT)

Cancer Inhalation Intake = 4.47E-02 Noncancer Inhalation Intake = 5.22E-01

TABLE 4.15.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Residents	Child	PSC 47	CGW	Chemical Concentration in Groundwater	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Chronic Daily Intake (CDI) (mg/kg/day) =
				CF	Conversion Factor	0.001	mg/ug	--	
				IR-GW	Ingestion Rate of Groundwater	1.5	L/day	U.S. EPA, 1997	CW x CF x IR-GW x EF x ED
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	BW x AT
				ED	Exposure Duration	6	years	U.S. EPA, 1991	
				BW	Body Weight	15	kg	U.S. EPA, 1991	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	U.S. EPA, 1989	
Dermal	Residents	Child	PSC 47	DAevent	Dermally Absorbed Dose per Event	Calculated	ng/cm2-event	U.S. EPA, 2004	Dermally Absorbed Dose (mg/kg/day) =
				SA	Skin Surface Available for Contact	6,600	cm2	U.S. EPA, 2004	
				EV	Event Frequency	1	events/day	U.S. EPA, 2004	DAevent x EV x EF x ED x SA
				ET	Exposure Time	0.33	hours/day	U.S. EPA, 2004	BW x AT
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	6	years	U.S. EPA, 1991	See text for calculation of DAevent
				BW	Body Weight	15	kg	U.S. EPA, 1991	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	U.S. EPA, 1989	

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund, Vol 1: Human Health Evaluation Manual, Part A. EPA/540/1-86/060.

U.S. EPA, 1991: Risk Assessment Guidance for Superfund - Supplemental Guidance- Standard Default Exposure Factors Interim Final.

U.S. EPA, 1997: Exposure Factors Handbook EPA/600/P-95/002Fa

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Ingestion Intake = (IR-GW x EF x ED)/(BW x AT)

Dermal Intake = (SA x EV x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 8.22E-06

Noncancer Ingestion Intake = 9.59E-05

Cancer Dermal Intake = 3.62E+01

Noncancer Dermal Intake = 4.22E+02

TABLE 4.16.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface Soil/Subsurface Soil
Exposure Medium: Surface/Subsurface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Resident	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Intake (mg/kg/day) =
				IR-S	Ingestion Rate	100	mg/day	U.S. EPA, 1991	
				CF3	Conversion Factor 3	1.0E-06	kg/mg	--	CS x IRS x CF3 x FI x EF x ED
				FI	Fraction Ingested	1	unitless	U.S. EPA, 1991	BW x AT
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	24	years	U.S. EPA, 1991	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	U.S. EPA, 1989	
Dermal	Resident	Adult	PSC 47	CS	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	Dermally Absorbed Dose (mg/kg/day) =
				CF3	Conversion Factor 3	1.0E-06	kg/mg	--	
				SA	Skin Surface Available for Contact	5,700	cm2	U.S. EPA, 2004	CS x CF3 x SA x SSAF x DABS x EF x ED
				SSAF	Soil to Skin Adherence Factor	0.07	mg/cm2/event	U.S. EPA, 2004	BW x AT
				DABS	Absorption Factor	Chemical Specific	unitless	U.S. EPA, 2004	
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	24	years	U.S. EPA, 1989	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	U.S. EPA, 1989	

Sources:

U.S. EPA, 1989. Risk Assessment Guidance for Superfund, Vol 1: Human Health Evaluation Manual, Part A.

U.S. EPA, 1991. Risk Assessment Guidance for Superfund - Supplemental Guidance- Standard Default Exposure Factors Interim Final.

U.S. EPA, 1993. Superfund Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure.

U.S. EPA, 2002. Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2004. Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Incidental Ingestion Intake = (IR-S x CF3 x FI x EF x ED)/(BW x AT)

Dermal Intake = (CF3 x SA x SSAF x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 4.70E-07

Noncancer Ingestion Intake = 1.37E-06

Cancer Dermal Intake = 1.87E-06

Noncancer Dermal Intake = 5.47E-06

TABLE 4.17.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Surface/Subsurface Soil
Exposure Medium: Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Resident	Adult	PSC 47	CA	Chemical concentration in air	Calculated	mg/m3	U.S. EPA, 1996.	Intake (mg/kg/day) =
				Cs	Chemical concentration in soil	Max or 95% UCL	mg/kg	U.S. EPA, 2002	
				IR	Inhalation Rate	0.83	m3/hour	U.S. EPA, 1991	CA x IR x ET x EF x ED
				ET	Exposure Time	24	hours/day	U.S. EPA, 1991	BW x AT
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	24	years	U.S. EPA, 1991	CA = (1/PEF + 1/VF) x Cs
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8760	days	U.S. EPA, 1989	
				PEF	Particulate Emission Factor	1.24E+09	m3/kg	FDEP, 2005	
				VF	Volatilization Factor	Chemical-specific	m3/kg	U.S. EPA, 1996	

Notes:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund, Vol I: Human Health Evaluation Manual, Part A. U.S. EPA/540/1-86/060.

U.S. EPA, 1991: Risk Assessment Guidance for Superfund - Supplemental Guidance- Standard Default Exposure Factors Interim Final.

U.S. EPA, 1993: Superfund Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure.

U.S. EPA, 1996: Soil Screening Level Guidance. U.S. EPA/540/R95/128.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

FDEP, 2005: Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.

Unit Intake Calculations

Inhalation Intake = (IR x ET x EF x ED)/(BW x AT)

Cancer Inhalation Intake = 9.36E-02 Noncancer Inhalation Intake = 2.73E-01

TABLE 4.18.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
NAVAL AIR STATICN JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Residents	Adult	PSC 47	CGW	Chemical Concentration in Groundwater	95% UCL or Max	ug/L	U.S. EPA, 2002	Chronic Daily Intake (CDI) (mg/kg/day) =
				CF	Conversion Factor	0.001	mg/ug	--	
				IR-GW	Ingestion Rate of Groundwater	2	L/day	U.S. EPA, 1991	CW x CF x IR-GW x EF x ED
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	BW x AT
				ED	Exposure Duration	24	years	U.S. EPA, 1991	
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	U.S. EPA, 1989	
Dermal	Residents	Adult	PSC 47	DAevent	Dermally Absorbed Dose per Event	Calculated	mg/cm2-event	U.S. EPA, 2004	Dermally Absorbed Dose (mg/kg/day) =
				SA	Skin Surface Available for Contact	18,000	cm2	U.S. EPA, 2004	
				EV	Event Frequency	1	events/day	U.S. EPA, 2004	DAevent x EV x EF x ED x SA
				ET	Exposure Time	0.25	hours/day	U.S. EPA, 2004	BW x AT
				EF	Exposure Frequency	350	days/year	U.S. EPA, 1991	
				ED	Exposure Duration	24	years	U.S. EPA, 1991	See text for calculation of DAevent.
				BW	Body Weight	70	kg	U.S. EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	U.S. EPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	U.S. EPA, 1989	

Sources:

U.S. EPA, 1989: Risk Assessment Guidance for Superfund. Vol 1: Human Health Evaluation Manual, Part A. EPA/540/1-86/060.

U.S. EPA, 1991: Risk Assessment Guidance for Superfund - Supplemental Guidance- Standard Default Exposure Factors Interim Final.

U.S. EPA, 2002: Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10.

U.S. EPA, 2004: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.

Unit Intake Calculations

Ingestion Intake = (IR-GW x EF x ED)/(BW x AT)

Dermal Intake = (SA x EV x EF x ED)/(BW x AT)

Cancer Ingestion Intake = 9.39E-06 Cancer Dermal Intake = 8.45E+01

Noncancer Ingestion Intake = 2.74E-05 Noncancer Dermal Intake = 2.47E+02

LIST OF TABLES
RAGS PART D TABLE 5
NON-CANCER TOXICITY DATA

Table No.

5-1 Non-Cancer Toxicity Data - Oral/Dermal
5-2 Non-Cancer Toxicity Data - Inhalation

TABLE 5.1
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal (1)	Absorbed RfD for Dermal (2)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units		Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Volatile Organic Compounds										
1,2,4-Trichlorobenzene	Chronic	1.0E-02	mg/kg/day	1	1.0E-02	mg/kg/day	Kidney	1000/1	IRIS	04/18/2007
1,2-Dibromo-3-Chloropropane	Chronic	2.0E-04	mg/kg/day	1	2.0E-04	mg/kg/day	Reproductive	NA	NCEA	4/6/2006
1,4-Dichlorobenzene	Chronic	3.0E-02	mg/kg/day	1	3.0E-02	mg/kg/day	Liver	NA	NCEA	4/6/2006
Benzene	Chronic	4.0E-03	mg/kg/day	1	4.0E-03	mg/kg/day	Blood	300/1	IRIS	04/18/2007
Chlorobenzene	Chronic	2.0E-02	mg/kg/day	1	2.0E-02	mg/kg/day	Liver	1000/1	IRIS	04/18/2007
Chloroform	Chronic	1.0E-02	mg/kg/day	1	1.0E-02	mg/kg/day	Liver	1000/1	IRIS	04/18/2007
cis-1,2-Dichloroethene	Chronic	1.0E-02	mg/kg/day	1	1.0E-02	mg/kg/day	Blood	NA	NCEA	4/6/2006
trans-1,2-Dichloroethene	Chronic	2.0E-02	mg/kg/day	1	2.0E-02	mg/kg/day	Blood	1000/1	IRIS	04/18/2007
Ethylbenzene	Chronic	1.0E-01	mg/kg/day	1	1.0E-01	mg/kg/day	Liver, Kidney	1000/1	IRIS	04/18/2007
Isopropylbenzene	Chronic	1.0E-01	mg/kg/day	1	1.0E-01	mg/kg/day	Kidney	1000/1	IRIS	04/18/2007
Tetrachloroethene	Chronic	1.0E-02	mg/kg/day	1	1.0E-02	mg/kg/day	Liver	1000/1	IRIS	04/18/2007
Total Xylenes	Chronic	2.0E-01	mg/kg/day	1	2.0E-01	mg/kg/day	Body Weight	1000/1	IRIS	04/18/2007
Trichloroethene	Chronic	5.0E-04	mg/kg/day	1	5.0E-01	mg/kg/day	Liver	NA	CA EPA	12/2002
Vinyl Chloride	Chronic	3.0E-03	mg/kg/day	1	3.0E-03	mg/kg/day	Liver	30/1	IRIS	04/18/2007
Semivolatile Organic Compounds										
1,1-Biphenyl	Chronic	5.0E-02	mg/kg/day	1	5.0E-02	mg/kg/day	Kidney	100/10	IRIS	04/13/2007
2,4,5-Trichlorophenol	Chronic	1.0E-01	mg/kg/day	1	1.0E-01	mg/kg/day	Liver, Kidney	1000/1	IRIS	04/13/2007
2,4-Dichlorophenol	Chronic	3.0E-03	mg/kg/day	1	3.0E-03	mg/kg/day	Immunological	100/1	IRIS	04/13/2007
2-Methylnaphthalene	Chronic	4.0E-03	mg/kg/day	1	4.0E-03	mg/kg/day	Lungs	1000/1	IRIS	04/13/2007
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	Chronic	2.0E-02	mg/kg/day	1	2.0E-02	mg/kg/day	Body Weight, Nasal	3000/1	IRIS	04/18/2007
Pentachlorophenol	Chronic	3.0E-02	mg/kg/day	1	3.0E-02	mg/kg/day	Liver, Kidney	100/1	IRIS	04/18/2007
Pesticides/PCBs										
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	Chronic	5.0E-04	mg/kg/day	1	5.0E-04	mg/kg/day	Liver	100/1	IRIS	04/18/2007
Alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	Chronic	5.0E-04	mg/kg/day	1	5.0E-04	mg/kg/day	Liver	300/1	IRIS	04/18/2007
Beta-BHC	Chronic	NA	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	Chronic	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	Chronic	5.0E-05	mg/kg/day	1	5.0E-05	mg/kg/day	Liver	100/1	IRIS	04/18/2007
Endrin Ketone[3]	Chronic	3.0E-04	mg/kg/day	1	3.0E-04	mg/kg/day	Liver	100/1	IRIS	04/18/2007
Gamma-BHC (Lindane)	Chronic	3.0E-04	mg/kg/day	1	3.0E-04	mg/kg/day	Liver, Kidney	1000/1	IRIS	04/18/2007
Gamma-Chlordane	Chronic	5.0E-04	mg/kg/day	1	5.0E-04	mg/kg/day	Liver	300/1	IRIS	04/18/2007
Heptachor	Chronic	5.0E-04	mg/kg/day	1	5.0E-04	mg/kg/day	Liver	300/1	IRIS	04/18/2007
Heptachor Epoxide	Chronic	1.3E-05	mg/kg/day	1	1.3E-05	mg/kg/day	Liver	1000/1	IRIS	04/18/2007
Metals										
Arsenic	Chronic	3.0E-04	mg/kg/day	1	3.0E-04	mg/kg/day	Skin, CVS	3/1	IRIS	09/15/2003

Notes:
1 - USEPA, 2001a: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.
2 - Adjusted dermal RfD = Oral RfD x Oral Absorption Efficiency for Dermal.
3 - Endrin is used as a surrogate for endrin ketone.

Definitions:
NA = Not Applicable
CVS = Cardiovascular system
IRIS = Integrated Risk Information System
HEAST= Health Effects Assessment Summary Tables
NCEA = USEPA Region 3 Risk-Based Concentration Table, April 25, 2003.

TABLE 5.2
NON-CANCER TOXICITY DATA -- INHALATION
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Chemical of Potential Concern	Chronic/ Subchronic	Inhalation RfC		Extrapolated RfD (1)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfC : Target Organ(s)	
		Value	Units	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	Chronic	2.0E-04	mg/m3	5.7E-05	mg/kg/day	Reproductive	1000/1	IRIS	04/18/2007
1,4-Dichlorobenzene	Chronic	8.0E-01	mg/m3	2.3E-01	mg/kg/day	Liver	100/1	IRIS	04/18/2007
Benzene	Chronic	3.0E-02	mg/m3	8.6E-03	mg/kg/day	Blood	300/1	IRIS	04/18/2007
Chlorobenzene	Chronic	4.9E-02	mg/m3	1.4E-02	mg/kg/day	Liver	NA	NCEA	04/6/2007
Chloroform	Chronic	4.9E-02	mg/m3	1.4E-02	mg/kg/day	Liver	NA	NCEA	04/6/2007
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	Chronic	6.0E-02	mg/m3	1.7E-02	mg/kg/day	Blood	NA	NCEA	04/6/2007
Ethylbenzene	Chronic	1.0E+00	mg/m3	2.9E-01	mg/kg/day	Liver, Kidney	300/1	IRIS	04/18/2007
Isopropylbenzene	Chronic	4.0E-01	mg/m3	1.1E-01	mg/kg/day	Kidney	1000/1	IRIS	04/18/2007
Tetrachloroethene	Chronic	2.8E-01	mg/m3	8.0E-02	mg/kg/day	Liver	NA	NCEA	04/6/2007
Total Xylenes	Chronic	1.1E-01	mg/m3	3.0E-02	mg/kg/day	Body Weight	300/1	IRIS	04/18/2007
Trichloroethene	Chronic	6.0E-01	mg/m^3	1.7E-01	(mg/kg/day)	Liver	NA	CA EPA	12/2002
Vinyl Chloride	Chronic	9.8E-02	mg/m3	2.8E-02	mg/kg/day	Liver	30/1	IRIS	04/18/2007
Semivolatile Organic Compounds									
1,1-Biphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	Chronic	3.0E-03	mg/m3	8.6E-04	mg/kg/day	Body Weight, Nasal	3000/1	IRIS	04/18/2007
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs									
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	Chronic	7.0E-04	mg/m3	2.0E-04	(mg/kg/day)	Liver	1000/1	IRIS	04/18/2007
Beta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	Chronic	7.0E-04	mg/m3	2.0E-04	(mg/kg/day)	Liver	1000/1	IRIS	09/15/2003
Heptachor	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachor Epoxide	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 5.2
NON-CANCER TOXICITY DATA -- INHALATION
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA
PAGE 2 OF 2

Chemical of Potential Concern	Chronic/ Subchronic	Inhalation RfC		Extrapolated RfD (1)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfC : Target Organ(s)	
		Value	Units	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Metals									
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
(1) - Extrapolated RfD = RfC *20m^3/day / 70 kg

Definitions:
NA = Not Applicable
CNS = Central Nervous System
IRIS = Integrated Risk Information System
HEAST= Health Effects Assessmen: Summary Tables
NCEA = USEPA Region 3 RBC Tab e, April 25, 2003.

LIST OF TABLES
RAGS PART D TABLE 6
CANCER TOXICITY DATA

Table No.	
6-1	Cancer Toxicity Data - Oral/Dermal
6-2	Cancer Toxicity Data - Inhalation

TABLE 6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal (1)	Absorbed Cancer Slope Factor for Dermal (2)		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Units		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
1,2-Dibromo-3-Chloropropane	8.0E-01	(mg/kg/day)-1	1	8.0E-01	(mg/kg/day)-1	NA	NCEA	04/6/2007
1,4-Dichlorobenzene	2.4E-02	(mg/kg/day)-1	1	2.4E-02	(mg/kg/day)-1	C	HEAST	07/97
Benzene	5.5E-02	(mg/kg/day)-1	1	5.5E-02	(mg/kg/day)-1	A	IRIS	04/18/2007
Chlorobenzene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
Chloroform	NA	NA	NA	NA	NA	B2	IRIS	04/18/2007
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
Isopropylbenzene	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
Tetrachloroethene	5.4E-01	(mg/kg/day)-1	1	5.4E-01	(mg/kg/day)-1	NA	NCEA	04/6/2007
Total Xylenes	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	1.3E-02	$(mg/kg/day)^{-1}$	1	1.3E-02	$(mg/kg/day)^{-1}$	C	CA EPA	12/2002
Vinyl Chloride	1.5E+00	(mg/kg/day)-1	1	1.5E+00	(mg/kg/day)-1	A	IRIS	09/15/2003
Semivolatile Organic Compounds								
1,1-Biphenyl	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	7.3E+00	(mg/kg/day)-1	1	7.3E+00	(mg/kg/day)-1	B2	IRIS	04/18/2007
Naphthalene	NA	NA	NA	NA	NA	C	IRIS	04/18/2007
Pentachlorophenol	1.2E-01	(mg/kg/day)-1	1	1.2E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Pesticides/PCBs								
4,4'-DDD	2.4E-01	(mg/kg/day)-1	1	2.4E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
4,4'-DDE	3.4E-01	(mg/kg/day)-1	1	3.4E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
4,4'-DDT	3.4E-01	(mg/kg/day)-1	1	3.4E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Alpha-BHC	6.3E+00	(mg/kg/day)-1	1	6.3E+00	(mg/kg/day)-1	B2	IRIS	04/18/2007
Alpha-Chlordane	3.5E-01	(mg/kg/day)-1	1	3.5E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Beta-BHC	1.8E+00	(mg/kg/day)-1	1	1.8E+00	(mg/kg/day)-1	C	IRIS	04/18/2007
Delta-BHC	NA	NA	NA	NA	NA	D	IRIS	04/18/2007
Dieldrin	1.6E+01	(mg/kg/day)-1	1	1.6E+01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Endrin Ketone	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	1.3E+00	(mg/kg/day)-1	1	1.3E+00	(mg/kg/day)-1	B2	HEAST	07/97

TABLE 6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal (1)	Absorbed Cancer Slope Factor for Dermal (2)		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Units		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Gamma-Chlordane	3.5E-01	(mg/kg/day)-1	1	3.5E-01	(mg/kg/day)-1	B2	IRIS	04/18/2007
Heptachor	4.5E+00	(mg/kg/day)-1	1	4.5E+00	(mg/kg/day)-1	B2	IRIS	04/18/2007
Heptachor Epoxide	9.1E+00	(mg/kg/day)-1	1	9.1E+00	(mg/kg/day)-1	B2	IRIS	04/18/2007
Herbicides								
Metals								
Arsenic	1.5E+00	(mg/kg/day)-1	1	1.5E+00	(mg/kg/day)-1	A	IRIS	09/15/2003

Notes:
(1) - USEPA, 2001a: Risk Assessment Guidance for Superfund (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005.
(2) - Adjusted cancer slope factor for dermal = Oral cancer slope factor / Oral Absorption Efficiency for Dermal.

IRIS = Integrated Risk Information System.
HEAST= Health Effects Assessment Summary Tables.
NA = Not Available.
NCEA = USEPA National Center for Environmental Assessment (USEPA Region III RBC Table, April 25, 2003).
USEPA(1) = USEPA, Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons, July 1993, EPA/600/R-93/089.
USEPA(2) = USEPA, PCBs: Cancer Dose-Response Assessment and Applications to Environmental Mixtures, September 1996, EPA/600/P-96/001F.

USEPA Group:
A - Human carcinogen.
B1 - Probable human carcinogen - indicates that limited human data are available.
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans.
C - Possible human carcinogen.
D - Not classifiable as a human carcinogen.
E - Evidence of non-carcinogenicity.

TABLE 6.2
CANCER TOXICITY DATA -- INHALATION
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Chemical of Potential Concern	Unit Risk		Inhalation Cancer Slope Factor (1)		Weight of Evidence/ Cancer Guideline Description	Unit Risk : Inhalation CSF	
	Value	Units	Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	NA	NA	NA	NA	D	IRIS	04/18/2007
1,2-Dibromo-3-Chloropropane	6.0E+00	$(mg/m^3)^{-1}$	2.1E+01	$(mg/kg/day)^{-1}$	NA	NCEA	04/6/2007
1,4-Dichlorobenzene	6.3E-03	$(mg/m^3)^{-1}$	2.2E-02	$(mg/kg/day)^{-1}$	NA	NCEA	04/6/2007
Benzene	7.8E-03	$(mg/m^3)^{-1}$	2.7E-02	$(mg/kg/day)^{-1}$	A	IRIS	04/18/2007
Chlorobenzene	NA	NA	NA	NA	D	IRIS	04/18/2007
Chloroform	2.3E-02	$(mg/m^3)^{-1}$	8.1E-02	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
cis-1,2-Dichloroethene	NA	NA	NA	NA	D	IRIS	04/18/2007
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	D	IRIS	04/18/2007
Isopropylbenzene	NA	NA	NA	NA	D	IRIS	04/18/2007
Tetrachloroethene	5.7E-03	$(mg/m^3)^{-1}$	2.0E-02	$(mg/kg/day)^{-1}$	NA	NCEA	04/6/2007
Total Xylenes	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	2.0E-03	$(mg/m^3)^{-1}$	7.0E-03	$(mg/kg/day)^{-1}$	C	CA EPA	12/2002
Vinyl Chloride	8.8E-03	$(mg/m^3)^{-1}$	3.1E-02	$(mg/kg/day)^{-1}$	A	IRIS	04/18/2007
Semivolatile Organic Compounds							
1,1-Biphenyl	NA	NA	NA	NA	D	IRIS	04/18/2007
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	3.1E+00	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Naphthalene	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	B2	IRIS	04/18/2007
Pesticides/PCBs							
4,4'-DDD	NA	NA	NA	NA	B2	IRIS	04/18/2007
4,4'-DDE	NA	NA	NA	NA	B2	IRIS	04/18/2007
4,4'-DDT	9.7E-02	$(mg/m^3)^{-1}$	3.4E-01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Alpha-BHC	1.8E+00	$(mg/m^3)^{-1}$	6.3E+00	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Alpha-Chlordane	1.0E-01	$(mg/m^3)^{-1}$	3.5E-01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Beta-BHC	5.3E-01	$(mg/m^3)^{-1}$	1.9E+00	$(mg/kg/day)^{-1}$	C	IRIS	04/18/2007
Delta-BHC	NA	NA	NA	NA	D	IRIS	04/18/2007
Dieldrin	4.6E+00	$(mg/m^3)^{-1}$	1.6E+01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Endrin Ketone	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.0E-01	$(mg/m^3)^{-1}$	3.5E-01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Heptachor	1.3E-01	$(mg/m^3)^{-1}$	4.6E-01	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007
Heptachor Epoxide	2.6E+00	$(mg/m^3)^{-1}$	9.1E+00	$(mg/kg/day)^{-1}$	B2	IRIS	04/18/2007

TABLE 6.2
CANCER TOXICITY DATA -- INHALATION
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Chemical of Potential Concern	Unit Risk		Inhalation Cancer Slope Factor (1)		Weight of Evidence/ Cancer Guideline Description	Unit Risk : Inhalation CSF	
	Value	Units	Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Metals							
Arsenic	4.3E+00	$(mg/m^3)^{-1}$	1.5E+01	$(mg/kg/day)^{-1}$	A	IRIS	04/18/2007

Notes:
1 - Inhalation CSF = Unit Risk * 70 kg / $20m^3$/day.

Definitions:
IRIS = Integrated Risk Information System.
HEAST= Health Effects Assessment Summary Tables.
NA = Not Available.
NCEA = USEPA National Center for Environmental Assessment
(USEPA Region 3 RBC Table, April 25, 2003).

USEPA Group:
A - Human carcinogen.
B1 - Probable human carcinogen - indicates that limited human data are available.
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans.
C - Possible human carcinogen.
D - Not classifiable as a human carcinogen.
E - Evidence of non-carcinogenicity.

LIST OF TABLES
RAGS PART D TABLE 7
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

Table No.	REASONABLE MAXIMUM EXPOSURES
7.1.RME	Construction Workers
7.2.RME	Maintenance Workers
7.3.RME	Occupational Workers
7.4.RME	Adolescent Trespassers
7.5.RME	Adult Trespassers
7.6.RME	Child Residents
7.7.RME	Adult Residents

TABLE 7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Ingestion	Benzo(a)pyrene Equivalents	0.644	mg/kg	1.1E-08	(mg/kg/day)	7.3E+00	(mg/kg/day)-1	7.8E-08	7.5E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	18.9	mg/kg	3.1E-07	(mg/kg/day)	2.4E-01	(mg/kg/day)-1	7.5E-08	2.2E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	8.48	mg/kg	1.4E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	4.8E-08	9.9E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	163	mg/kg	2.7E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	9.2E-07	1.9E-04	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.4
				alpha-BHC	0.241	mg/kg	4.0E-09	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	2.5E-08	2.8E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	4.00	mg/kg	6.6E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	2.3E-08	4.6E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.009
				beta-BHC	0.226	mg/kg	3.8E-09	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	6.8E-09	2.6E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.92	mg/kg	3.2E-08	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.2E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.007
				Dieldrin	0.838	mg/kg	1.4E-08	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	2.2E-07	9.7E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.02
				gamma-BHC (Lindane)	0.308	mg/kg	5.1E-09	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	6.6E-09	3.6E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.001
				gamma-Chlordane	3.83	mg/kg	6.4E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	2.2E-08	4.5E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.009
				Heptachlor	0.204	mg/kg	3.4E-09	(mg/kg/day)	4.5E+00	(mg/kg/day)-1	1.5E-08	2.4E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0005
				Heptachlor Epoxide	0.154	mg/kg	2.6E-09	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	2.3E-08	1.8E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.01
				Arsenic	12.1	mg/kg	2.0E-07	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	3.0E-07	1.4E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.05
			Exp. Route Total								1.8E-06					0.5
			Dermal	Benzo(a)pyrene Equivalents	0.644	mg/kg	4.2E-09	(mg/kg/day)	7.3E+00	(mg/kg/day)-1	3.0E-08	2.9E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	18.9	mg/kg	2.9E-08	(mg/kg/day)	2.4E-01	(mg/kg/day)-1	6.8E-09	2.0E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	8.48	mg/kg	1.3E-08	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	4.3E-09	8.9E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	163	mg/kg	2.4E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	8.3E-08	1.7E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.03
				alpha-BHC	0.241	mg/kg	1.2E-09	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	7.6E-09	8.4E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	4.00	mg/kg	8.0E-09	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	2.8E-09	5.6E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.001
				beta-BHC	0.226	mg/kg	1.1E-09	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	2.0E-09	7.9E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.92	mg/kg	9.6E-09	(mg/kg/day)	NA	(mg/kg/day)-1	--	6.7E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.002
				Dieldrin	0.838	mg/kg	4.2E-09	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	6.7E-08	2.9E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.006
				gamma-BHC (Lindane)	0.308	mg/kg	1.5E-09	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	2.0E-09	1.1E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.0004
				gamma-Chlordane	3.83	mg/kg	7.6E-09	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	2.7E-09	5.3E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.001
				Heptachlor	0.204	mg/kg	1.0E-09	(mg/kg/day)	4.5E+00	(mg/kg/day)-1	4.6E-09	7.1E-08	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0001
				Heptachlor Epoxide	0.154	mg/kg	7.7E-10	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	7.0E-09	5.4E-08	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.004
				Arsenic	12.1	mg/kg	1.8E-08	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	2.7E-08	1.3E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.004
			Exp. Route Total								2.5E-07					0.05
		Exposure Point Total									2.0E-06					0.5
	Exposure Medium Total										2.0E-06					0.5
	Air	PSC 47	Inhalation	Benzo(a)pyrene Equivalents	4.3E-7	mg/m3	4.3E-10	(mg/kg/day)	3.1E+00	(mg/kg/day)-1	1.3E-09	3.0E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	1.3E-5	mg/m3	1.3E-08	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.9E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	5.7E-6	mg/m3	5.7E-09	(mg/kg/day)	NA	(mg/kg/day)-1	--	4.0E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	1.1E-4	mg/m3	1.1E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	3.7E-08	7.7E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-BHC	1.6E-7	mg/m3	1.6E-10	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	1.0E-09	1.1E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	2.7E-6	mg/m3	2.7E-09	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	9.5E-10	1.9E-07	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0009
				beta-BHC	1.5E-7	mg/m3	1.5E-10	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	2.8E-10	1.1E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.3E-6	mg/m3	1.3E-09	(mg/kg/day)	NA	(mg/kg/day)-1	--	9.1E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				Dieldrin	5.6E-7	mg/m3	5.7E-10	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	9.1E-09	4.0E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				gamma-BHC (Lindane)	2.1E-7	mg/m3	2.1E-10	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	2.7E-10	1.5E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				gamma-Chlordane	2.6E-6	mg/m3	2.6E-09	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	9.1E-10	1.8E-07	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0009

TABLE 7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil/Subsurface Soil	Air	PSC 47	Inhalation	Heptachlor	1.4E-7	mg/m3	1.4E-10	(mg/kg/day)	4.6E+00	(mg/kg/day)-1	6.3E-10	9.6E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				Heptachlor Epoxide	1.0E-7	mg/m3	1.0E-10	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	9.5E-10	7.3E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				Arsenic	8.1E-6	mg/m3	8.2E-09	(mg/kg/day)	1.5E+01	(mg/kg/day)-1	1.2E-07	5.7E-07	(mg/kg/day)	NA	(mg/kg/day)	--
			Exp. Route Total								1.8E-07					0.002
		Exposure Point Total									1.8E-07					0.002
	Exposure Medium Total										1.8E-07					0.002
Medium Total											2.2E-06					0.5
Groundwater	Groundwater	PSC 47	Dermal	1,2,4-Trichlorobenzene	0.528	ug/L	1.1E-08	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.0E-07	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.00008
				1,2-Dibromo-3-Chloropropane	0.225	ug/L	6.9E-10	(mg/kg/day)	8.0E-01	(mg/kg/day)-1	5.5E-10	4.8E-08	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0002
				1,4-Dichlorobenzene	0.465	ug/L	5.4E-09	(mg/kg/day)	2.4E-02	(mg/kg/day)-1	1.3E-10	3.8E-07	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.00001
				Benzene	1.27	ug/L	4.6E-09	(mg/kg/day)	5.5E-02	(mg/kg/day)-1	2.5E-10	3.2E-07	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.00008
				Chlorobenzene	0.785	ug/L	5.6E-09	(mg/kg/day)	NA	(mg/kg/day)-1	--	3.9E-07	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.00002
				Chloroform	0.108	ug/L	2.0E-10	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.4E-08	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.000001
				cis-1,2-Dichloroethene	79.8	ug/L	2.2E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.5E-06	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.002
				Ethylbenzene	6.20	ug/L	7.3E-08	(mg/kg/day)	NA	(mg/kg/day)-1	--	5.1E-06	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.00005
				Isopropylbenzene	0.852	ug/L	1.8E-08	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.2E-06	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.00001
				Tetrachloroethene	0.654	ug/L	6.7E-09	(mg/kg/day)	5.4E-01	(mg/kg/day)-1	3.6E-09	4.7E-07	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.00005
				Total Xylenes	32.8	ug/L	3.7E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.6E-05	(mg/kg/day)	2.0E-01	(mg/kg/day)	0.0001
				trans-1,2-Dichloroethene	0.494	ug/L	3.8E-10	(mg/kg/day)	NA	(mg/kg/day)-1	--	6.9E-08	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.000003
				Trichloroethene	0.993	ug/L	3.2E-09	(mg/kg/day)	1.3E-02	(mg/kg/day)-1	4.2E-11	2.3E-07	(mg/kg/day)	5.0E-01	(mg/kg/day)	0.0000005
				Vinyl Chloride	0.621	ug/L	9.5E-10	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	1.5E-09	6.0E-08	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.00002
				1,1'- Biphenyl	1.79	ug/L	4.5E-08	(mg/kg/day)	NA	(mg/kg/day)-1	--	3.1E-06	(mg/kg/day)	5.0E-02	(mg/kg/day)	0.00006
				2,4,5-Trichlorophenol	84.0	ug/L	1.1E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	7.5E-05	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.0008
				2,4-Dichlorophenol	19.2	ug/L	1.2E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.5E-06	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.003
				2-Methylnaphthalene	4.97	ug/L	1.1E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.0E-06	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.002
				Naphthalene	8.94	ug/L	1.1E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	7.5E-06	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.0004
				Pentachlorophenol	1.15	ug/L	2.3E-07	(mg/kg/day)	1.2E-01	(mg/kg/day)-1	2.7E-08	1.6E-05	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.0005
				4,4'-DDD	1.39	ug/L	1.6E-07	(mg/kg/day)	2.4E-01	(mg/kg/day)-1	3.8E-08	1.1E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	0.013	ug/L	1.3E-09	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	4.3E-10	8.8E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	0.015	ug/L	2.8E-09	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	9.5E-10	2.0E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0004
				Aldrin	0.372	ug/L	5.5E-10	(mg/kg/day)	1.7E+01	(mg/kg/day)-1	9.4E-09	3.9E-08	(mg/kg/day)	3.0E-05	(mg/kg/day)	0.001
				alpha-BHC	0.514	ug/L	6.7E-09	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	4.2E-08	4.7E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	0.106	ug/L	3.9E-09	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	1.4E-09	2.8E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0006
				beta-BHC	0.276	ug/L	3.6E-09	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	6.5E-09	2.5E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	0.608	ug/L	7.9E-09	(mg/kg/day)	NA	(mg/kg/day)-1	--	5.5E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.002
				Dieldrin	0.025	ug/L	2.9E-10	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	4.8E-09	2.0E-06	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.0004
				Endrin ketone	0.193	ug/L	3.9E-09	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.7E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.0009
				gamma-BHC (Lindane)	0.723	ug/L	4.6E-09	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	6.0E-09	3.2E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.001
				gamma-Chlordane	0.047	ug/L	1.6E-09	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	5.1E-10	1.2E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0002
				Heptachlor	0.011	ug/L	8.5E-11	(mg/kg/day)	4.5E+00	(mg/kg/day)-1	3.8E-10	5.9E-09	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.00001
				Heptachlor Epoxide	0.026	ug/L	2.0E-10	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	1.8E-09	1.4E-08	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.001
				Arsenic	446	ug/L	9.9E-08	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	1.5E-07	6.9E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.02
			Exp. Route Total								2.9E-07					0.04
		Exposure Point Total									2.9E-07					0.04
	Exposure Medium Total										2.9E-07					0.04

TABLE 7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Air	PSC 47	Inhalation	1,2,4-Trichlorobenzene	1.4E-05	mg/m3	2.4E-09	(mg/kg/day)	NA	(mg/kg/day)-1	- -	1.6E-07	(mg/kg/day)	NA	(mg/kg/day)	- -
				1,2-Dibromo-3-Chloropropane	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	2.1E+01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	5.7E-05	(mg/kg/day)	- -
				1,4-Dichlorobenzene	1.4E-05	mg/m3	2.3E-09	(mg/kg/day)	2.2E-02	(mg/kg/day)-1	5.1E-11	1.6E-07	(mg/kg/day)	2.3E-01	(mg/kg/day)	0.0000007
				Benzene	5.3E-05	mg/m3	9.8E-09	(mg/kg/day)	2.7E-02	(mg/kg/day)-1	2.4E-10	6.2E-07	(mg/kg/day)	8.6E-03	(mg/kg/day)	0.00007
				Chlorobenzene	2.7E-05	mg/m3	4.5E-09	(mg/kg/day)	NA	(mg/kg/day)-1	- -	3.2E-07	(mg/kg/day)	1.4E-02	(mg/kg/day)	0.00002
				Chloroform	3.6E-06	mg/m3	6.1E-10	(mg/kg/day)	8.1E-02	(mg/kg/day)-1	4.9E-11	4.2E-08	(mg/kg/day)	1.4E-02	(mg/kg/day)	0.000003
				cis-1,2-Dichloroethene	3.0E-03	mg/m3	5.0E-07	(mg/kg/day)	NA	(mg/kg/day)-1	- -	3.5E-05	(mg/kg/day)	NA	(mg/kg/day)	- -
				Ethylbenzene	2.2E-04	mg/m3	3.7E-08	(mg/kg/day)	NA	(mg/kg/day)-1	- -	2.6E-06	(mg/kg/day)	2.9E-01	(mg/kg/day)	0.000009
				Isopropylbenzene	2.9E-05	mg/m3	4.8E-09	(mg/kg/day)	NA	(mg/kg/day)-1	- -	3.4E-07	(mg/kg/day)	1.1E-01	(mg/kg/day)	0.000003
				Tetrachloroethene	1.9E-05	mg/m3	3.2E-09	(mg/kg/day)	2.0E-02	(mg/kg/day)-1	6.3E-11	2.2E-07	(mg/kg/day)	8.0E-02	(mg/kg/day)	0.000003
				Total Xylenes	1.2E-03	mg/m3	2.0E-07	(mg/kg/day)	NA	(mg/kg/day)-1	- -	1.4E-05	(mg/kg/day)	2.9E-02	(mg/kg/day)	0.0005
				trans-1,2-Dichloroethene	1.9E-05	mg/m3	3.1E-09	(mg/kg/day)	NA	(mg/kg/day)-1	- -	2.2E-07	(mg/kg/day)	1.7E-02	(mg/kg/day)	0.00001
				Trichloroethene	3.2E-05	mg/m3	5.4E-09	(mg/kg/day)	7.0E-03	(mg/kg/day)-1	3.8E-11	3.8E-07	(mg/kg/day)	1.7E-01	(mg/kg/day)	0.000002
				Vinyl Chloride	2.9E-05	mg/m3	4.9E-09	(mg/kg/day)	3.1E-02	(mg/kg/day)-1	1.5E-10	3.4E-07	(mg/kg/day)	2.9E-02	(mg/kg/day)	0.00001
				1,1'-Biphenyl	4.7E-05	mg/m3	7.9E-09	(mg/kg/day)	NA	(mg/kg/day)-1	- -	5.5E-07	(mg/kg/day)	NA	(mg/kg/day)	- -
				2,4,5-Trichlorophenol	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	-
				2,4-Dichlorophenol	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	-
				2-Methylnaphthalene	7.9E-05	mg/m3	1.3E-08	(mg/kg/day)	NA	(mg/kg/day)-1	- -	9.3E-07	(mg/kg/day)	NA	(mg/kg/day)	- -
				Naphthalene	2.6E-04	mg/m3	4.4E-08	(mg/kg/day)	NA	(mg/kg/day)-1	- -	3.1E-06	(mg/kg/day)	8.6E-04	(mg/kg/day)	0.004
				Pentachlorophenol	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	-
				4,4'-DDD	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				4,4'-DDE	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				4,4'-DDT	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				Aldrin	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	1.7E+01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				alpha-BHC	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				alpha-Chlordane	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	2.0E-04	(mg/kg/day)	- -
				beta-BHC	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				delta-BHC	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				Dieldrin	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				Endrin Ketone	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				gamma-BHC (Lindane)	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				gamma-Chlordane	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	2.0E-04	(mg/kg/day)	- -
				Heptachlor	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	4.6E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				Heptachlor Epoxide	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
				Arsenic	0.0E+00	mg/m3	0.0E+00	(mg/kg/day)	1.5E+01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	- -
			Exp. Route Total								5.9E-10					0.004
		Exposure Point Total									5.9E-10					0.004
	Exposure Medium Total										5.9E-10					0.004
Medium Total											2.9E-07					0.04
										Total of Receptor Risks Across All Media	2.5E-06				Total of Receptor Hazards Across All Media	0.6

TABLE 7.2 RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Receptor Population: Maintenance Workers
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil	Surface Soil	PSC 47	Ingestion	Benzo(a)pyrene Equivalents	0.644	mg/kg	1.4E-08	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	9.9E-08	3.8E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.49	mg/kg	5.2E-08	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	1.3E-08	1.3E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	4.12	mg/kg	8.6E-08	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.9E-08	2.4E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	116	mg/kg	2.4E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	8.3E-07	6.8E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.01
				Alpha-Chlordane	4.73	mg/kg	3.9E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	3.5E-08	2.8E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0006
				Dieldrin	0.592	mg/kg	1.2E-08	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	2.0E-07	3.5E-08	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.0007
				Gamma-Chlordane	3.57	mg/kg	7.5E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	2.6E-08	2.1E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0004
				Heptachlor	0.433	mg/kg	9.1E-09	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	4.1E-08	2.6E-08	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.00005
				Heptachlor Epoxide	0.223	mg/kg	4.7E-09	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	4.3E-08	1.3E-08	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.001
				Arsenic	7.77	mg/kg	1.6E-07	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	2.4E-07	4.6E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.002
			Exp. Route Total								1.6E-06					0.02
			Dermal	Benzo(a)pyrene Equivalents	0.644	mg/kg	1.9E-08	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	1.4E-07	5.2E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.49	mg/kg	1.7E-08	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	4.0E-09	4.6E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	4.12	mg/kg	2.7E-08	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	9.3E-09	7.7E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	116	mg/kg	7.7E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.6E-07	2.2E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.004
				Alpha-Chlordane	4.73	mg/kg	4.2E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.5E-08	1.2E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0002
				Dieldrin	0.592	mg/kg	1.3E-08	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	2.1E-07	3.7E-08	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.0007
				Gamma-Chlordane	3.57	mg/kg	3.2E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.1E-08	8.9E-08	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0002
				Heptachlor	0.433	mg/kg	9.6E-09	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	4.3E-08	2.7E-08	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.00005
				Heptachlor Epoxide	0.223	mg/kg	4.9E-09	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	4.5E-08	1.4E-08	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.001
				Arsenic	7.77	mg/kg	5.2E-08	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	7.7E-08	1.4E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.0005
			Exp. Route Total								8.1E-07					0.007
		Exposure Point Total									2.4E-06					0.02
	Exposure Medium Total										2.4E-06					0.02
	Air	PSC 47	Inhalation	Benzo(a)pyrene Equivalents	5.2E-10	mg/m^3	4.4E-12	(mg/kg/day)	3.1E+00	(mg/kg/day)$^{-1}$	1.4E-11	1.2E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.0E-9	mg/m^3	1.7E-11	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	4.7E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	3.3E-9	mg/m^3	2.8E-11	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	7.8E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	9.4E-8	mg/m^3	7.8E-10	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.7E-10	2.2E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				Alpha-Chlordane	3.8E-9	mg/m^3	3.2E-11	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.1E-11	9.0E-11	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0000004
				Dieldrin	4.8E-10	mg/m^3	4.0E-12	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	6.4E-11	1.1E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Gamma-Chlordane	2.9E-9	mg/m^3	2.4E-11	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	8.5E-12	6.8E-11	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0000003
				Heptachlor	3.5E-10	mg/m^3	2.9E-12	(mg/kg/day)	4.6E+00	(mg/kg/day)$^{-1}$	1.3E-11	8.2E-12	(mg/kg/day)	NA	(mg/kg/day)	--
				Heptachlor Epoxide	1.8E-10	mg/m^3	1.5E-12	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	1.4E-11	4.2E-12	(mg/kg/day)	NA	(mg/kg/day)	--
				Arsenic	6.3E-9	mg/m^3	5.3E-11	(mg/kg/day)	1.5E+01	(mg/kg/day)$^{-1}$	7.9E-10	1.5E-10	(mg/kg/day)	NA	(mg/kg/day)	--
			Exp. Route Total								1.2E-09					0.0000008
		Exposure Point Total									1.2E-09					0.0000008
	Exposure Medium Total										1.2E-09					0.0000008
Medium Total											2.4E-06					0.02
										Total of Receptor Risks Across All Media	2.4E-06			Total of Receptor Hazards Across All Media		0.02

TABLE 7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Receptor Population: Occupational Workers
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil	Surface Soil	PSC 47	Ingestion	Benzo(a)pyrene Equivalents	0.644	mg/kg	2.3E-07	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	1.6E-06	8.3E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.49	mg/kg	8.7E-07	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	2.1E-07	2.4E-03	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	4.12	mg/kg	1.4E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	4.9E-07	4.0E-03	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	116	mg/kg	4.1E-05	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	1.4E-05	1.1E-04	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.2
				Alpha-Chlordane	4.73	mg/kg	1.7E-06	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	5.8E-07	4.6E-03	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.009
				Dieldrin	0.592	mg/kg	2.1E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	3.3E-06	5.8E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.01
				Gamma-Chlordane	3.57	mg/kg	1.2E-06	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	4.4E-07	3.5E-03	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.007
				Heptachlor	0.433	mg/kg	1.5E-07	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	6.8E-07	4.2E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0008
				Heptachlor Epoxide	0.223	mg/kg	7.8E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	7.1E-07	2.2E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.02
				Arsenic	7.77	mg/kg	2.7E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	4.1E-06	7.6E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.03
			Exp. Route Total								2.6E-05					0.3
			Dermal	Benzo(a)pyrene Equivalents	0.644	mg/kg	1.9E-07	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	1.4E-06	5.4E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.49	mg/kg	1.7E-07	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	4.1E-08	4.8E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	4.12	mg/kg	2.9E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	9.7E-08	8.0E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	116	mg/kg	8.0E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.7E-06	2.2E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.04
				Alpha-Chlordane	4.73	mg/kg	4.4E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.5E-07	1.2E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.002
				Dieldrin	0.592	mg/kg	1.4E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	2.2E-06	3.8E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.008
				Gamma-Chlordane	3.57	mg/kg	3.3E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.2E-07	9.2E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.002
				Heptachlor	0.433	mg/kg	1.0E-07	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	4.5E-07	2.8E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0006
				Heptachlor Epoxide	0.223	mg/kg	5.1E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	4.7E-07	1.4E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.01
				Arsenic	7.77	mg/kg	5.4E-07	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	8.1E-07	1.5E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.005
			Exp. Route Total								8.5E-06					0.07
		Exposure Point Total									3.4E-05					0.4
	Exposure Medium Total										3.4E-05					0.4
	Air	PSC 47	Inhalation	Benzo(a)pyrene Equivalents	5.2E-10	mg/m^3	3.6E-11	(mg/kg/day)	3.1E+00	(mg/kg/day)$^{-1}$	1.1E-10	1.0E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.0E-9	mg/m^3	1.4E-10	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	3.9E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	3.3E-9	mg/m^3	2.3E-10	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	6.5E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	9.4E-8	mg/m^3	6.5E-09	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.2E-09	1.8E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				Alpha-Chlordane	3.8E-9	mg/m^3	2.7E-10	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	9.3E-11	7.5E-10	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0000004
				Dieldrin	4.8E-10	mg/m^3	3.3E-11	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	5.4E-10	9.3E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Gamma-Chlordane	2.9E-9	mg/m^3	2.0E-10	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	7.0E-11	5.6E-10	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0000003
				Heptachlor	3.5E-10	mg/m^3	2.4E-11	(mg/kg/day)	4.6E+00	(mg/kg/day)$^{-1}$	1.1E-10	6.8E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Heptachlor Epoxide	1.8E-10	mg/m^3	1.3E-11	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	1.1E-10	3.5E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Arsenic	6.3E-9	mg/m^3	4.4E-10	(mg/kg/day)	1.5E+01	(mg/kg/day)$^{-1}$	6.6E-09	1.2E-09	(mg/kg/day)	NA	(mg/kg/day)	--
			Exp. Route Total								9.8E-09					0.000007
		Exposure Point Total									9.8E-09					0.000007
	Exposure Medium Total										9.8E-09					0.000007
Medium Total											3.4E-05					0.4
										Total of Receptor Risks Across All Media	3.4E-05			Total of Receptor Hazards Across All Media		0.4

TABLE 7.4 RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Receptor Population: Trespassers
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil	Surface Soil	PSC 47	Ingestion	Benzo(a)pyrene Equivalents	0.644	mg/kg	5.6E-08	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	4.1E-07	3.9E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.49	mg/kg	2.2E-07	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	5.2E-08	1.5E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	4.12	mg/kg	3.6E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	1.2E-07	2.5E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	1.16	mg/kg	1.0E-05	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	3.4E-06	7.1E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.1
				Alpha-Chlordane	4.73	mg/kg	4.1E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.4E-07	2.9E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.006
				Dieldrin	0.592	mg/kg	5.1E-08	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	8.2E-07	3.6E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.007
				Gamma-Chlordane	3.57	mg/kg	3.1E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.1E-07	2.2E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.004
				Heptachlor	0.433	mg/kg	3.8E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	1.7E-07	2.6E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0005
				Heptachlor Epoxide	0.223	mg/kg	1.9E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	1.8E-07	1.4E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.01
				Arsenic	7.77	mg/kg	6.8E-07	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	1.0E-06	4.7E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.02
			Exp. Route Total								6.4E-06					0.2
			Dermal	Benzo(a)pyrene Equivalents	0.644	mg/kg	4.8E-08	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	3.5E-07	3.3E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.49	mg/kg	4.3E-08	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	1.0E-08	3.0E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	4.12	mg/kg	7.1E-08	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.4E-08	4.9E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	1.16	mg/kg	2.0E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	6.8E-07	1.4E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.03
				Alpha-Chlordane	4.73	mg/kg	1.1E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	3.8E-08	7.6E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.002
				Dieldrin	0.592	mg/kg	3.4E-08	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	5.4E-07	2.4E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.005
				Gamma-Chlordane	3.57	mg/kg	8.1E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	2.9E-08	5.7E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.001
				Heptachlor	0.433	mg/kg	2.5E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	1.1E-07	1.7E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0003
				Heptachlor Epoxide	0.223	mg/kg	1.3E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	1.2E-07	8.9E-08	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.007
				Arsenic	7.77	mg/kg	1.3E-07	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	2.0E-07	9.3E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.003
			Exp. Route Total								2.1E-06					0.05
		Exposure Point Total									8.5E-06					0.2
	Exposure Medium Total										8.5E-06					0.2
	Air	PSC 47	Inhalation	Benzo(a)pyrene Equivalents	5.2E-10	mg/m^3	2.2E-12	(mg/kg/day)	3.1E+00	(mg/kg/day)$^{-1}$	6.7E-12	1.5E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.0E-9	mg/m^3	8.4E-12	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	5.9E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	3.3E-9	mg/m^3	1.4E-11	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	9.7E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	9.4E-9	mg/m^3	3.9E-10	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	1.3E-10	2.7E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				Alpha-Chlordane	3.8E-9	mg/m^3	1.6E-11	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	5.6E-12	1.1E-10	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0000006
				Dieldrin	4.8E-10	mg/m^3	2.0E-12	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	3.2E-11	1.4E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Gamma-Chlordane	2.9E-9	mg/m^3	1.2E-11	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	4.2E-12	8.4E-11	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0000004
				Heptachlor	3.5E-10	mg/m^3	1.5E-12	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	6.7E-12	1.0E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Heptachlor Epoxide	1.8E-10	mg/m^3	7.5E-13	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	6.8E-12	5.3E-12	(mg/kg/day)	NA	(mg/kg/day)	--
				Arsenic	6.3E-9	mg/m^3	2.6E-11	(mg/kg/day)	1.5E+01	(mg/kg/day)$^{-1}$	3.9E-10	1.8E-10	(mg/kg/day)	NA	(mg/kg/day)	--
			Exp. Route Total								5.9E-10					0.0000010
		Exposure Point Total									5.9E-10					0.0000010
	Exposure Medium Total										5.9E-10					0.0000010
Medium Tota											8.5E-06					0.2
										Total of Receptor Risks Across All Media	8.5E-06			Total of Receptor Hazards Across All Media		0.2

TABLE 7.5.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Receptor Population: Trespassers
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Ingestion	Benzo(a)pyrene Equivalents	0.644	mg/kg	3.2E-08	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	2.4E-07	1.1E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.49	mg/kg	1.3E-07	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	3.0E-08	4.4E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	4.12	mg/kg	2.1E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	7.0E-08	7.3E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	116	mg/kg	5.8E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.0E-06	2.0E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.04
				Alpha-Chlordane	4.73	mg/kg	2.4E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	8.3E-08	8.3E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.002
				Dieldrin	0.592	mg/kg	3.0E-08	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	4.8E-07	1.0E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.002
				Gamma-Chlordane	3.57	mg/kg	1.8E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	6.3E-08	6.3E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.001
				Heptachlor	0.433	mg/kg	2.2E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	9.8E-08	7.6E-08	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0002
				Heptachlor Epoxide	0.223	mg/kg	1.1E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	1.0E-07	3.9E-08	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.003
				Arsenic	7.77	mg/kg	3.9E-07	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	5.9E-07	1.4E-03	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.005
			Exp. Route Total								3.7E-06					0.05
			Dermal	Benzo(a)pyrene Equivalents	0.644	mg/kg	1.7E-08	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	1.2E-07	5.9E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.49	mg/kg	1.5E-08	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	3.6E-09	5.2E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	4.12	mg/kg	2.5E-08	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	8.4E-09	8.7E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	116	mg/kg	7.0E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.4E-07	2.4E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.005
				Alpha-Chlordane	4.73	mg/kg	3.8E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.3E-08	1.3E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0003
				Dieldrin	0.592	mg/kg	1.2E-08	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	1.9E-07	4.2E-08	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.0008
				Gamma-Chlordane	3.57	mg/kg	2.9E-08	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.0E-08	1.0E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0002
				Heptachlor	0.433	mg/kg	8.7E-09	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	3.9E-08	3.0E-08	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.00006
				Heptachlor Epoxide	0.223	mg/kg	4.5E-09	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	4.1E-08	1.6E-08	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.001
				Arsenic	7.77	mg/kg	4.7E-08	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	7.0E-08	1.6E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.0005
			Exp. Route Total								7.4E-07					0.008
		Exposure Point Total									4.5E-06					0.06
	Exposure Medium Total										4.5E-06					0.06
	Air	PSC 47	Inhalation	Benzo(a)pyrene Equivalents	5.2E-10	mg/m^3	3.7E-12	(mg/kg/day)	3.1E+00	(mg/kg/day)$^{-1}$	1.2E-11	1.3E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	2.0E-9	mg/m^3	1.4E-11	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	5.0E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	3.3E-9	mg/m^3	2.4E-11	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	8.3E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	9.4E-8	mg/m^3	6.7E-10	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.3E-10	2.3E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				Alpha-Chlordane	3.8E-9	mg/m^3	2.7E-11	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	9.6E-12	9.6E-11	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0000005
				Dieldrin	4.6E-10	mg/m^3	3.4E-12	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	5.5E-11	1.2E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Gamma-Chlordane	2.9E-9	mg/m^3	2.1E-11	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	7.2E-12	7.2E-11	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.0000004
				Heptachlor	3.5E-10	mg/m^3	2.5E-12	(mg/kg/day)	4.6E+00	(mg/kg/day)$^{-1}$	1.1E-11	8.7E-12	(mg/kg/day)	NA	(mg/kg/day)	--
				Heptachlor Epoxide	1.8E-10	mg/m^3	1.3E-12	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	1.2E-11	4.5E-12	(mg/kg/day)	NA	(mg/kg/day)	--
				Arsenic	6.3E-9	mg/m^3	4.5E-11	(mg/kg/day)	1.5E+01	(mg/kg/day)$^{-1}$	6.7E-10	1.6E-10	(mg/kg/day)	NA	(mg/kg/day)	--
			Exp. Route Total								1.0E-09					0.0000008
		Exposure Point Total									1.0E-09					0.0000008
	Exposure Medium Total										1.0E-09					0.0000008
Medium Total											4.5E-06					0.06
										Total of Receptor Risks Across All Media	4.5E-06			Total of Receptor Hazards Across All Media		0.06

TABLE 7.6 RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Ingestion	Benzo(a)pyrene Equivalents	0.644	mg/kg	7.1E-07	(mg/kg/day)	7.3E+00	(mg/kg/day)-1	5.2E-06	6.2E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	18.9	mg/kg	2.1E-05	(mg/kg/day)	2.4E-01	(mg/kg/day)-1	5.0E-06	2.4E-04	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	8.48	mg/kg	9.3E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	3.2E-06	1.1E-04	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	163	mg/kg	1.8E-04	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	6.1E-05	2.1E-03	(mg/kg/day)	5.0E-04	(mg/kg/day)	4.2
				alpha-BHC	0.241	mg/kg	2.6E-07	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	1.7E-06	3.1E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	4.00	mg/kg	4.4E-06	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	1.5E-06	5.1E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.1
				beta-BHC	0.226	mg/kg	2.5E-07	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	4.5E-07	2.9E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.92	mg/kg	2.1E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.5E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.08
				Dieldrin	0.838	mg/kg	9.2E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	1.5E-05	1.1E-05	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.2
				gamma-BHC (Lindane)	0.308	mg/kg	3.4E-07	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	4.4E-07	3.9E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.01
				gamma-Chlordane	3.83	mg/kg	4.2E-06	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	1.5E-06	4.9E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.10
				Heptachlor	0.204	mg/kg	2.2E-07	(mg/kg/day)	4.5E+00	(mg/kg/day)-1	1.0E-06	2.6E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.005
				Heptachlor Epoxide	0.154	mg/kg	1.7E-07	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	1.5E-06	2.0E-06	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.2
				Arsenic	12.1	mg/kg	1.3E-05	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	2.0E-05	1.5E-04	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.5
			Exp. Route Total								1.2E-04					5.9
			Dermal	Benzo(a)pyrene Equivalents	0.644	mg/kg	2.6E-07	(mg/kg/day)	7.3E+00	(mg/kg/day)-1	1.9E-06	3.0E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	18.9	mg/kg	1.7E-06	(mg/kg/day)	2.4E-01	(mg/kg/day)-1	4.2E-07	2.0E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	8.48	mg/kg	7.8E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	2.7E-07	9.1E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	163	mg/kg	1.5E-05	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	5.1E-06	1.8E-04	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.4
				alpha-BHC	0.241	mg/kg	7.4E-08	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	4.7E-07	8.6E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	4.00	mg/kg	4.9E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	1.7E-07	5.7E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.01
				beta-BHC	0.226	mg/kg	6.9E-08	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	1.2E-07	8.1E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.92	mg/kg	5.9E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	6.9E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.02
				Dieldrin	0.838	mg/kg	2.6E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	4.1E-06	3.0E-06	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.06
				gamma-BHC (Lindane)	0.308	mg/kg	9.5E-08	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	1.2E-07	1.1E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.004
				gamma-Chlordane	3.83	mg/kg	4.7E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	1.6E-07	5.5E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.01
				Heptachlor	0.204	mg/kg	6.3E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)-1	2.8E-07	7.3E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.001
				Heptachlor Epoxide	0.154	mg/kg	4.7E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	4.3E-07	5.5E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.04
				Arsenic	12.1	mg/kg	1.1E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	1.7E-06	1.3E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.04
			Exp. Route Total								1.5E-05					0.5
		Exposure Point Total									1.3E-04					5.9
	Exposure Medium Total										1.3E-04					5.9
	Air	PSC 47	Inhalation	Benzo(a)pyrene Equivalents	5.2E-10	mg/m3	2.3E-11	(mg/kg/day)	3.1E+00	(mg/kg/day)-1	7.2E-11	2.7E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	1.5E-8	mg/m3	6.8E-10	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.0E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	6.8E-9	mg/m3	3.1E-10	(mg/kg/day)	NA	(mg/kg/day)-1	--	3.6E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	1.3E-7	mg/m3	5.9E-09	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	2.0E-09	6.9E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-BHC	1.9E-10	mg/m3	8.7E-12	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	5.5E-11	1.0E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	3.2E-9	mg/m3	1.4E-10	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	5.0E-11	1.7E-09	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.000008
				beta-BHC	1.8E-10	mg/m3	8.1E-12	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	1.5E-11	3.5E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.5E-9	mg/m3	6.9E-11	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.1E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				Dieldrin	6.8E-10	mg/m3	3.0E-11	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	4.9E-10	3.5E-10	(mg/kg/day)	NA	(mg/kg/day)	

TABLE 7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil/Subsurface Soil	Air	PSC 47	Inhalation	gamma-BHC (Lindane)	2.5E-10	mg/m3	1.1E-11	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	1.4E-11	1.3E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				gamma-Chlordane	3.1E-9	mg/m3	1.4E-10	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	4.8E-11	1.6E-09	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.000008
				Heptachlor	1.6E-10	mg/m3	7.4E-12	(mg/kg/day)	4.6E+00	(mg/kg/day)-1	3.4E-11	8.6E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Heptachlor Epoxide	1.2E-10	mg/m3	5.6E-12	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	5.1E-11	6.5E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Arsenic	9.6E-9	mg/m3	4.4E-10	(mg/kg/day)	1.5E+01	(mg/kg/day)-1	6.5E-09	5.1E-09	(mg/kg/day)	NA	(mg/kg/day)	--
			Exp. Route Total								9.4E-09					0.00002
		Exposure Point Total									9.4E-09					0.00002
	Exposure Medium Total										9.4E-09					0.00002
Medium Total											1.3E-04					5.9
Groundwater	Groundwater	PSC 47	Ingestion	1,2,4-Trichlorobenzene	0.528	ug/L	4.3E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	5.1E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.005
				1,2-Dibromo-3-Chloropropane	0.225	ug/L	1.8E-06	(mg/kg/day)	8.0E-01	(mg/kg/day)-1	1.5E-06	2.2E-05	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.1
				1,4-Dichlorobenzene	0.465	ug/L	3.8E-06	(mg/kg/day)	2.4E-02	(mg/kg/day)-1	9.2E-08	4.5E-05	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.001
				Benzene	1.27	ug/L	1.0E-05	(mg/kg/day)	5.5E-02	(mg/kg/day)-1	5.7E-07	1.2E-04	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.03
				Chlorobenzene	0.785	ug/L	6.5E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	7.5E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.004
				Chloroform	0.108	ug/L	8.9E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.0E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.001
				cis-1,2-Dichloroethene	79.8	ug/L	6.6E-04	(mg/kg/day)	NA	(mg/kg/day)-1	--	7.7E-03	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.8
				Ethylbenzene	6.20	ug/L	5.1E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	5.9E-04	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.006
				Isopropylbenzene	0.852	ug/L	7.0E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.2E-05	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.0008
				Tetrachloroethene	0.654	ug/L	5.4E-06	(mg/kg/day)	5.4E-01	(mg/kg/day)-1	2.9E-06	6.3E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.006
				Total Xylenes	32.8	ug/L	2.7E-04	(mg/kg/day)	NA	(mg/kg/day)-1	--	3.1E-03	(mg/kg/day)	2.0E-01	(mg/kg/day)	0.02
				trans-1,2-Dichloroethene	0.494	ug/L	4.1E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	4.7E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.002
				Trichloroethene	0.993	ug/L	8.2E-06	(mg/kg/day)	1.3E-02	(mg/kg/day)-1	1.1E-07	9.5E-05	(mg/kg/day)	5.0E-01	(mg/kg/day)	0.0002
				Vinyl Chloride	0.621	ug/L	5.1E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	7.7E-06	6.0E-05	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.02
				1,1'- Biphenyl	1.79	ug/L	1.5E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.7E-04	(mg/kg/day)	5.0E-02	(mg/kg/day)	0.003
				2,4,5-Trichlorophenol	84.0	ug/L	6.9E-04	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.1E-03	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.08
				2,4-Dichlorophenol	19.2	ug/L	1.6E-04	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.8E-03	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.6
				2-Methylnaphthalene	4.97	ug/L	4.1E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	4.8E-04	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.1
				Naphthalene	8.94	ug/L	7.3E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.6E-04	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.04
				Pentachlorophenol	1.15	ug/L	9.5E-06	(mg/kg/day)	1.2E-01	(mg/kg/day)-1	1.1E-06	1.1E-04	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.004
				4,4'-DDD	1.39	ug/L	1.1E-05	(mg/kg/day)	2.4E-01	(mg/kg/day)-1	2.7E-06	1.3E-04	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	0.013	ug/L	1.1E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	3.6E-08	1.2E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	0.015	ug/L	1.2E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	4.2E-08	1.4E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.003
				Aldrin	0.372	ug/L	3.1E-06	(mg/kg/day)	1.7E+01	(mg/kg/day)-1	5.2E-05	3.6E-05	(mg/kg/day)	3.0E-05	(mg/kg/day)	1.2
				alpha-BHC	0.514	ug/L	4.2E-06	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	2.7E-05	4.9E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	0.106	ug/L	8.7E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	3.0E-07	1.0E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.02
				beta-BHC	0.276	ug/L	2.3E-06	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	4.1E-06	2.6E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	0.608	ug/L	5.0E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	5.8E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.2
				Dieldrin	0.025	ug/L	2.1E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	3.3E-06	2.4E-06	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.05
				Endrin Ketone	0.183	ug/L	1.5E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.8E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.06
				gamma-BHC (Lindane)	0.723	ug/L	5.9E-06	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	7.7E-06	6.9E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.2
				gamma-Chlordane	0.047	ug/L	3.9E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	1.4E-07	4.5E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.009
				Heptachlor	0.011	ug/L	9.0E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)-1	4.1E-07	1.1E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.002
				Heptachlor Epoxide	0.026	ug/L	2.1E-07	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	1.9E-06	2.5E-06	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.2
				Arsenic	446	ug/L	3.7E-03	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	5.5E-03	4.3E-02	(mg/kg/day)	3.0E-04	(mg/kg/day)	143
			Exp. Route Total								5.6E-03					146

TABLE 7 6 RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Groundwater	PSC 47	Dermal	1,2,4-Trichlorobenzene	0.528	ug/L	2.1E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.5E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.002
				1,2-Dibromo-3-Chloropropane	0.225	ug/L	1.3E-07	(mg/kg/day)	8.0E-01	(mg/kg/day)-1	1.0E-07	1.5E-06	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.008
				1,4-Dichlorobenzene	0.465	ug/L	9.4E-07	(mg/kg/day)	2.4E-02	(mg/kg/day)-1	2.3E-08	1.1E-05	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.0004
				Benzene	1.27	ug/L	5.9E-07	(mg/kg/day)	5.5E-02	(mg/kg/day)-1	3.2E-08	6.8E-06	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.002
				Chlorobenzene	0.785	ug/L	8.6E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.0E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.0005
				Chloroform	0.108	ug/L	3.0E-08	(mg/kg/day)	NA	(mg/kg/day)-1	--	3.5E-07	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.00003
				cis-1,2-Dichloroethene	79.8	ug/L	3.0E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	3.5E-04	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.04
				Ethylbenzene	6.20	ug/L	1.1E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.3E-04	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.001
				Isopropylbenzene	0.852	ug/L	3.0E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	3.5E-05	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.0004
				Tetrachloroethene	0.654	ug/L	1.2E-06	(mg/kg/day)	5.4E-01	(mg/kg/day)-1	6.5E-07	1.4E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.001
				Total Xylenes	32.8	ug/L	5.6E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	6.5E-04	(mg/kg/day)	2.0E-01	(mg/kg/day)	0.003
				trans-1,2-Dichloroethene	0.494	ug/L	1.3E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.6E-06	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.00008
				Trichloroethene	0.993	ug/L	5.1E-07	(mg/kg/day)	1.3E-02	(mg/kg/day)-1	6.6E-09	5.9E-06	(mg/kg/day)	5.0E-01	(mg/kg/day)	0.00001
				Vinyl Chloride	0.621	ug/L	9.8E-08	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	1.5E-07	1.1E-06	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.0004
				1,1'-Biphenyl	1.79	ug/L	8.3E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	9.6E-05	(mg/kg/day)	5.0E-02	(mg/kg/day)	0.002
				2,4,5-Trichlorophenol	84.0	ug/L	2.0E-04	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.3E-03	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.02
				2,4-Dichlorophenol	19.2	ug/L	2.1E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.5E-04	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.08
				2-Methylnaphthalene	4.97	ug/L	2.1E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.4E-04	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.06
				Naphthalene	8.94	ug/L	1.8E-05	(mg/kg/day)	NA	(mg/kg/day)-1	--	2.1E-04	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.01
				Pentachlorophenol	1.15	ug/L	4.3E-05	(mg/kg/day)	1.2E-01	(mg/kg/day)-1	5.1E-06	5.0E-04	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.02
				4,4'-DDD	1.39	ug/L	3.0E-05	(mg/kg/day)	2.4E-01	(mg/kg/day)-1	7.1E-06	3.4E-04	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	0.013	ug/L	2.4E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	8.0E-08	2.8E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	0.015	ug/L	5.2E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	1.8E-07	6.1E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.01
				Aldrin	0.372	ug/L	1.0E-07	(mg/kg/day)	1.7E+01	(mg/kg/day)-1	1.8E-06	1.2E-06	(mg/kg/day)	3.0E-05	(mg/kg/day)	0.04
				alpha-BHC	0.514	ug/L	1.3E-06	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	7.9E-06	1.5E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	0.106	ug/L	7.4E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	2.6E-07	8.6E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.02
				beta-BHC	0.276	ug/L	6.7E-07	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	1.2E-06	7.9E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	0.608	ug/L	1.5E-06	(mg/kg/day)	NA	(mg/kg/day)-1	--	1.7E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.06
				Dieldrin	0.025	ug/L	5.4E-08	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	8.6E-07	6.3E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.01
				Endrin Ketone	0.183	ug/L	7.3E-07	(mg/kg/day)	NA	(mg/kg/day)-1	--	8.5E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.03
				gamma-BHC (Lindane)	0.723	ug/L	8.6E-07	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	1.1E-06	1.0E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.03
				gamma-Chlordane	0.047	ug/L	3.3E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	1.1E-07	3.8E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.008
				Heptachlor	0.011	ug/L	1.6E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)-1	7.2E-08	1.9E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0004
				Heptachlor Epoxide	0.026	ug/L	3.8E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	3.4E-07	4.4E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.03
				Arsenic	446	ug/L	5.3E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	8.0E-06	6.2E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.2
			Exp. Route Total								3.5E-05					0.7
		Exposure Point Total									5.6E-03					147
	Exposure Medium Total										5.6E-03					147

TABLE 7.6 RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Air	PSC 47	Inhalation	1,2,4-Trichlorobenzene	0.598	ug/L	4.3E-06	(mg/kg/day)	NA	(mg/kg/day)-1	- -	5.1E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.005
				1,2-Dibromo-3-Chloropropane	0.225	ug/L	1.6E-06	(mg/kg/day)	8.0E-01	(mg/kg/day)-1	1.5E-06	2.2E-05	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.1
				1,4-Dichlorobenzene	0.465	ug/L	3.3E-06	(mg/kg/day)	2.4E-02	(mg/kg/day)-1	9.2E-08	4.5E-05	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.001
				Benzene	1.27	ug/L	1.0E-05	(mg/kg/day)	5.5E-02	(mg/kg/day)-1	5.7E-07	1.2E-04	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.03
				Chlorobenzene	0.785	ug/L	5.5E-06	(mg/kg/day)	NA	(mg/kg/day)-1	- -	7.5E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.004
				Chloroform	0.108	ug/L	8.9E-07	(mg/kg/day)	NA	(mg/kg/day)-1	- -	1.0E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.001
				cis-1,2-Dichloroethene	79.8	ug/L	6.6E-04	(mg/kg/day)	NA	(mg/kg/day)-1	- -	7.7E-03	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.8
				Ethylbenzene	6.20	ug/L	5.1E-05	(mg/kg/day)	NA	(mg/kg/day)-1	- -	5.9E-04	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.006
				Isopropylbenzene	0.852	ug/L	7.0E-06	(mg/kg/day)	NA	(mg/kg/day)-1	- -	8.2E-05	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.0008
				Tetrachloroethene	0.654	ug/L	5.4E-06	(mg/kg/day)	5.4E-01	(mg/kg/day)-1	2.9E-06	6.3E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.006
				Total Xylenes	32.8	ug/L	2.7E-04	(mg/kg/day)	NA	(mg/kg/day)-1	- -	3.1E-03	(mg/kg/day)	2.0E-01	(mg/kg/day)	0.02
				trans-1,2-Dichloroethene	0.494	ug/L	4.1E-06	(mg/kg/day)	NA	(mg/kg/day)-1	- -	4.7E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.002
				Trichloroethene	0.993	ug/L	8.2E-06	(mg/kg/day)	1.3E-02	(mg/kg/day)-1	1.1E-07	9.5E-05	(mg/kg/day)	5.0E-01	(mg/kg/day)	0.0002
				Vinyl Chloride	0.621	ug/L	5.1E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	7.7E-06	6.0E-05	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.02
				1,1'-Biphenyl	1.79	ug/L	1.5E-05	(mg/kg/day)	NA	(mg/kg/day)-1	- -	1.7E-04	(mg/kg/day)	5.0E-02	(mg/kg/day)	0.003
				2,4,5-Trichlorophenol	84.0	ug/L	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	1.0E-01	(mg/kg/day)	--
				2,4-Dichlorophenol	19.2	ug/L	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	3.0E-03	(mg/kg/day)	--
				2-Methylnaphthalene	4.57	ug/L	4.1E-05	(mg/kg/day)	NA	(mg/kg/day)-1	- -	4.8E-04	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.1
				Naphthalene	8.94	ug/L	7.3E-05	(mg/kg/day)	NA	(mg/kg/day)-1	- -	8.6E-04	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.04
				Pentachlorophenol	1.15	ug/L	0.0E+00	(mg/kg/day)	1.2E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	3.0E-02	(mg/kg/day)	--
				4,4'-DDD	1.39	ug/L	0.0E+00	(mg/kg/day)	2.4E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	0.013	ug/L	0.0E+00	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	0.015	ug/L	0.0E+00	(mg/kg/day)	3.4E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	5.0E-04	(mg/kg/day)	--
				Aldrin	0.372	ug/L	0.0E+00	(mg/kg/day)	1.7E+01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	3.0E-05	(mg/kg/day)	--
				alpha-BHC	0.514	ug/L	0.0E+00	(mg/kg/day)	6.3E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	0.106	ug/L	0.0E+00	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	5.0E-04	(mg/kg/day)	--
				beta-BHC	0.278	ug/L	0.0E+00	(mg/kg/day)	1.8E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	0.608	ug/L	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	3.0E-04	(mg/kg/day)	--
				Dieldrin	0.025	ug/L	0.0E+00	(mg/kg/day)	1.6E+01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	5.0E-05	(mg/kg/day)	--
				Endrin Ketone	0.183	ug/L	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	3.0E-04	(mg/kg/day)	--
				gamma-BHC (Lindane)	0.723	ug/L	0.0E+00	(mg/kg/day)	1.3E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	3.0E-04	(mg/kg/day)	-
				gamma-Chlordane	0.047	ug/L	0.0E+00	(mg/kg/day)	3.5E-01	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	5.0E-04	(mg/kg/day)	--
				Heptachlor	0.011	ug/L	0.0E+00	(mg/kg/day)	4.5E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	5.0E-04	(mg/kg/day)	--
				Heptachlor Epoxide	0.026	ug/L	0.0E+00	(mg/kg/day)	9.1E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	1.3E-05	(mg/kg/day)	--
				Arsenic	446	ug/L	0.0E+00	(mg/kg/day)	1.5E+00	(mg/kg/day)-1	- -	0.0E+00	(mg/kg/day)	3.0E-04	(mg/kg/day)	--
			Exp. Route Total								1.3E-05					1.1
		Exposure Point Total									1.3E-05					1.1
	Exposure Medium Total										1.3E-05					1.1
Medium Total											5.7E-03					148
											Total of Receptor Risks Across All Media	5.8E-03		Total of Receptor Hazards Across All Media		154

Note:
Inhalation exposures are assumed to be equal to the exposures from ingestion of groundwater.

TABLE 7.7.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Ingestion	Benzo(a)pyrene Equivalents	0.644	mg/kg	3.0E-07	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	2.2E-06	8.8E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	18.9	mg/kg	8.9E-06	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	2.1E-06	2.6E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	8.48	mg/kg	4.0E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	1.4E-06	1.2E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	163	mg/kg	7.7E-05	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	2.6E-05	2.2E-04	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.4
				alpha-BHC	0.241	mg/kg	1.1E-07	(mg/kg/day)	6.3E+00	(mg/kg/day)$^{-1}$	7.1E-07	3.3E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	4.00	mg/kg	1.9E-06	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	6.6E-07	5.5E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.01
				beta-BHC	0.226	mg/kg	1.1E-07	(mg/kg/day)	1.8E+00	(mg/kg/day)$^{-1}$	1.9E-07	3.1E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.92	mg/kg	9.0E-07	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.6E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.009
				Dieldrin	0.838	mg/kg	3.9E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	6.3E-06	1.1E-06	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.02
				gamma-BHC (Lindane)	0.308	mg/kg	1.4E-07	(mg/kg/day)	1.3E+00	(mg/kg/day)$^{-1}$	1.9E-07	4.2E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.001
				gamma-Chlordane	3.83	mg/kg	1.8E-06	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	6.3E-07	5.2E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.01
				Heptachlor	0.204	mg/kg	9.6E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	4.3E-07	2.8E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0006
				Heptachlor Epoxide	0.154	mg/kg	7.2E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	6.6E-07	2.1E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.02
				Arsenic	12.1	mg/kg	5.7E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	8.5E-06	1.7E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.05
			Exp. Route Total								5.0E-05					0.6
			Dermal	Benzo(a)pyrene Equivalents	0.644	mg/kg	1.6E-07	(mg/kg/day)	7.3E+00	(mg/kg/day)$^{-1}$	1.1E-06	4.6E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	18.9	mg/kg	1.1E-06	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	2.6E-07	3.1E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	8.48	mg/kg	4.8E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	1.6E-07	1.4E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	163	mg/kg	9.2E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	3.1E-06	2.7E-05	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.05
				alpha-BHC	0.241	mg/kg	4.5E-08	(mg/kg/day)	6.3E+00	(mg/kg/day)$^{-1}$	2.8E-07	1.3E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	4.00	mg/kg	3.0E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.0E-07	8.7E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.002
				beta-BHC	0.226	mg/kg	4.2E-08	(mg/kg/day)	1.8E+00	(mg/kg/day)$^{-1}$	7.6E-08	1.2E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.92	mg/kg	3.6E-07	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.0E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.003
				Dieldrin	0.838	mg/kg	1.6E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	2.5E-06	4.6E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.009
				gamma-BHC (Lindane)	0.308	mg/kg	5.8E-08	(mg/kg/day)	1.3E+00	(mg/kg/day)$^{-1}$	7.5E-08	1.7E-07	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.0006
				gamma-Chlordane	3.83	mg/kg	2.9E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.0E-07	8.4E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.002
				Heptachlor	0.204	mg/kg	3.8E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	1.7E-07	1.1E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0002
				Heptachlor Epoxide	0.154	mg/kg	2.9E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	2.6E-07	8.4E-08	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.006
				Arsenic	12.1	mg/kg	6.8E-07	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	1.0E-06	2.0E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.007
			Exp. Route Total								9.3E-06					0.08
		Exposure Point Total									5.9E-05					0.7
	Exposure Medium Total										5.9E-05					0.7
	Air	PSC 47	Inhalation	Benzo(a)pyrene Equivalents	5.2E-10	mg/m^3	4.9E-11	(mg/kg/day)	3.1E+00	(mg/kg/day)$^{-1}$	1.5E-10	1.4E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDD	1.5E-8	mg/m^3	1.4E-09	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	4.2E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	6.8E-9	mg/m^3	6.4E-10	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.9E-09	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	1.3E-7	mg/m^3	1.2E-08	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	4.2E-09	3.6E-08	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-BHC	1.9E-10	mg/m^3	1.8E-11	(mg/kg/day)	6.3E+00	(mg/kg/day)$^{-1}$	1.1E-10	5.3E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	3.2E-9	mg/m^3	3.0E-10	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.1E-10	8.6E-10	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.000004
				beta-BHC	1.8E-10	mg/m^3	1.7E-11	(mg/kg/day)	1.8E+00	(mg/kg/day)$^{-1}$	3.2E-11	5.0E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	1.5E-9	mg/m^3	1.4E-10	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	4.2E-10	(mg/kg/day)	NA	(mg/kg/day)	--
				Dieldrin	6.8E-10	mg/m^3	6.3E-11	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	1.0E-09	1.8E-10	(mg/kg/day)	NA	(mg/kg/day)	--

TABLE 7.7.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil/Subsurface Soil	Air	PSC 47	Inhalation	gamma-BHC (Lindane)	2.5E-10	mg/m^3	2.3E-11	(mg/kg/day)	1.3E+00	(mg/kg/day)$^{-1}$	3.0E-11	6.9E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				gamma-Chlordane	3.1E-9	mg/m^3	2.9E-10	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.0E-10	8.4E-10	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.000004
				Heptachlor	1.6E-10	mg/m^3	1.5E-11	(mg/kg/day)	4.6E+00	(mg/kg/day)$^{-1}$	7.1E-11	4.5E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Heptachlor Epoxide	1.2E-10	mg/m^3	1.2E-11	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	1.1E-10	3.4E-11	(mg/kg/day)	NA	(mg/kg/day)	--
				Arsenic	9.8E-9	mg/m^3	9.1E-10	(mg/kg/day)	1.5E+01	(mg/kg/day)$^{-1}$	1.4E-08	2.7E-09	(mg/kg/day)	NA	(mg/kg/day)	--
			Exp. Route Total								2.0E-08					0.000009
		Exposure Point Total									2.0E-08					0.000009
	Exposure Medium Total										2.0E-08					0.000009
Medium Total											5.9E-05					0.7
Groundwater	Groundwater	PSC 47	Ingestion	1,2,4-Trichlorobenzene	0.528	ug/L	5.0E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.4E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.001
				1,2-Dibromo-3-Chloropropane	0.225	ug/L	2.1E-06	(mg/kg/day)	8.0E-01	(mg/kg/day)$^{-1}$	1.7E-06	6.2E-05	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.03
				1,4-Dichlorobenzene	0.465	ug/L	4.4E-06	(mg/kg/day)	2.4E-02	(mg/kg/day)$^{-1}$	1.0E-07	1.3E-05	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.0004
				Benzene	1.27	ug/L	1.2E-05	(mg/kg/day)	5.5E-02	(mg/kg/day)$^{-1}$	6.6E-07	3.5E-05	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.009
				Chlorobenzene	0.785	ug/L	7.4E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.2E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.001
				Chloroform	0.108	ug/L	1.0E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	3.0E-06	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.0003
				cis-1,2-Dichloroethene	79.8	ug/L	7.5E-04	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.2E-03	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.2
				Ethylbenzene	6.20	ug/L	5.8E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.7E-04	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.002
				Isopropylbenzene	0.852	ug/L	8.0E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.3E-05	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.0002
				Tetrachloroethene	0.654	ug/L	6.1E-06	(mg/kg/day)	5.4E-01	(mg/kg/day)$^{-1}$	3.3E-06	1.8E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.002
				Total Xylenes	32.8	ug/L	3.1E-04	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	9.0E-04	(mg/kg/day)	2.0E-01	(mg/kg/day)	0.004
				trans-1,2-Dichloroethene	0.494	ug/L	4.6E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.4E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.0007
				Trichloroethene	0.993	ug/L	9.3E-06	(mg/kg/day)	1.3E-02	(mg/kg/day)$^{-1}$	1.2E-07	2.7E-05	(mg/kg/day)	5.0E-01	(mg/kg/day)	0.00005
				Vinyl Chloride	0.621	ug/L	5.8E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	8.7E-06	1.7E-05	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.006
				1,1'- Biphenyl	1.79	ug/L	1.7E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	4.9E-05	(mg/kg/day)	5.0E-02	(mg/kg/day)	0.0010
				2,4,5-Trichlorophenol	84.0	ug/L	7.9E-04	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.3E-03	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.02
				2,4-Dichlorophenol	19.2	ug/L	1.8E-04	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	5.3E-04	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.2
				2-Methylnaphthalene	4.97	ug/L	4.7E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.4E-04	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.03
				Naphthalene	8.94	ug/L	8.4E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.4E-04	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.01
				Pentachlorophenol	1.15	ug/L	1.1E-05	(mg/kg/day)	1.2E-01	(mg/kg/day)$^{-1}$	1.3E-06	3.2E-05	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.001
				4,4'-DDD	1.39	ug/L	1.3E-05	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	3.1E-06	3.8E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	0.013	ug/L	1.2E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	4.2E-08	3.6E-07	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	0.015	ug/L	1.4E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	4.8E-08	4.1E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0008
				Aldrin	0.372	ug/L	3.5E-06	(mg/kg/day)	1.7E+01	(mg/kg/day)$^{-1}$	5.9E-05	1.0E-05	(mg/kg/day)	3.0E-05	(mg/kg/day)	0.3
				alpha-BHC	0.514	ug/L	4.8E-06	(mg/kg/day)	6.3E+00	(mg/kg/day)$^{-1}$	3.0E-05	1.4E-05	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	0.106	ug/L	1.0E-06	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	3.5E-07	2.9E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.006
				beta-BHC	0.276	ug/L	2.6E-06	(mg/kg/day)	1.8E+00	(mg/kg/day)$^{-1}$	4.7E-06	7.6E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	0.608	ug/L	5.7E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.7E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.06
				Dieldrin	0.025	ug/L	2.3E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	3.8E-06	6.8E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.01
				Endrin Ketone	0.183	ug/L	1.7E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	5.0E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.02
				gamma-BHC (Lindane)	0.723	ug/L	6.8E-06	(mg/kg/day)	1.3E+00	(mg/kg/day)$^{-1}$	8.8E-06	2.0E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.07
				gamma-Chlordane	0.047	ug/L	4.4E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	1.5E-07	1.3E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.003
				Heptachlor	0.011	ug/L	1.0E-07	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	4.6E-07	3.0E-07	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0006
				Heptachlor Epoxide	0.026	ug/L	2.4E-07	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	2.2E-06	7.1E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.05
				Arsenic	446	ug/L	4.2E-03	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	6.3E-03	1.2E-02	(mg/kg/day)	3.0E-04	(mg/kg/day)	41
			Exp. Route Total								6.4E-03					42

TABLE 7.7 RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Groundwater	PSC 47	Dermal	1,2,4-Trichlorobenzene	0.526	ug/L	4.3E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.3E-06	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.001
				1,2-Dibromo-3-Chloropropane	0.225	ug/L	2.6E-07	(mg/kg/day)	8.0E-01	(mg/kg/day)$^{-1}$	2.1E-07	7.7E-07	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.004
				1,4-Dichlorobenzene	0.465	ug/L	1.9E-06	(mg/kg/day)	2.4E-02	(mg/kg/day)$^{-1}$	4.6E-08	5.6E-06	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.0002
				Benzene	1.87	ug/L	1.2E-06	(mg/kg/day)	5.5E-02	(mg/kg/day)$^{-1}$	6.6E-08	3.5E-06	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.0009
				Chlorobenzene	0.785	ug/L	1.7E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	5.1E-06	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.0003
				Chloroform	0.108	ug/L	6.1E-08	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.8E-07	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.00002
				cis-1,2-Dichloroethene	79.8	ug/L	6.1E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.8E-04	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.02
				Ethylbenzene	6.20	ug/L	2.3E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	6.7E-05	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.0007
				Isopropylbenzene	0.852	ug/L	6.1E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.8E-05	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.0002
				Tetrachloroethene	0.654	ug/L	2.4E-06	(mg/kg/day)	5.4E-01	(mg/kg/day)$^{-1}$	1.3E-06	7.1E-06	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.0007
				Total Xylenes	32.8	ug/L	1.1E-04	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	3.3E-04	(mg/kg/day)	2.0E-01	(mg/kg/day)	0.002
				trans-1,2-Dichloroethene	0.494	ug/L	2.7E-07	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	7.9E-07	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.00004
				Trichloroethene	0.993	ug/L	1.0E-06	(mg/kg/day)	1.3E-02	(mg/kg/day)$^{-1}$	1.3E-08	3.0E-06	(mg/kg/day)	5.0E-01	(mg/kg/day)	0.000006
				Vinyl Chloride	0.621	ug/L	2.0E-07	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	3.0E-07	5.8E-07	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.0002
				1,1'- Biphenyl	1.79	ug/L	1.7E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	4.9E-05	(mg/kg/day)	5.0E-02	(mg/kg/day)	0.0010
				2,4,5-Trichlorophenol	84.0	ug/L	4.0E-04	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.2E-03	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.01
				2,4-Dichlorophenol	19.2	ug/L	4.3E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.3E-04	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.04
				2-Methylnaphthalene	4.97	ug/L	4.2E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.2E-04	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.03
				Naphthalene	8.94	ug/L	3.6E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.1E-04	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.005
				Pentachlorophenol	1.15	ug/L	8.7E-05	(mg/kg/day)	1.2E-01	(mg/kg/day)$^{-1}$	1.0E-05	2.5E-04	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.008
				4,4'-DDD	1.39	ug/L	6.0E-05	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	1.4E-05	1.9E-04	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	0.013	ug/L	4.8E-07	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	1.6E-07	1.4E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	0.015	ug/L	1.1E-06	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	3.6E-07	3.1E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.006
				Aldrin	0.372	ug/L	2.1E-07	(mg/kg/day)	1.7E+01	(mg/kg/day)$^{-1}$	3.6E-06	6.1E-07	(mg/kg/day)	3.0E-05	(mg/kg/day)	0.02
				alpha-BHC	0.514	ug/L	2.6E-06	(mg/kg/day)	6.3E+00	(mg/kg/day)$^{-1}$	1.6E-05	7.4E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	0.106	ug/L	1.5E-06	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	5.3E-07	4.4E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.009
				beta-BHC	0.276	ug/L	1.4E-06	(mg/kg/day)	1.8E+00	(mg/kg/day)$^{-1}$	2.5E-06	4.0E-06	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	0.608	ug/L	3.0E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	8.6E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.03
				Dieldrin	0.025	ug/L	1.1E-07	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	1.7E-06	3.2E-07	(mg/kg/day)	5.0E-05	(mg/kg/day)	0.006
				Endrin Ketone	0.183	ug/L	1.5E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	4.3E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.01
				gamma-BHC (Lindane)	0.723	ug/L	1.8E-06	(mg/kg/day)	1.3E+00	(mg/kg/day)$^{-1}$	2.3E-06	5.1E-06	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.02
				gamma-Chlordane	0.047	ug/L	6.7E-07	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	2.3E-07	1.9E-06	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.004
				Heptachlor	0.011	ug/L	3.2E-08	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	1.5E-07	9.4E-08	(mg/kg/day)	5.0E-04	(mg/kg/day)	0.0002
				Heptachlor Epoxide	0.026	ug/L	7.7E-08	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	7.0E-07	2.2E-07	(mg/kg/day)	1.3E-05	(mg/kg/day)	0.02
				Arsenic	446	ug/L	9.4E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	1.4E-05	2.7E-05	(mg/kg/day)	3.0E-04	(mg/kg/day)	0.09
			Exp. Route Total								6.9E-05					0.3
		Exposure Point Total									6.9E-05					42
	Exposure Medium Total										6.9E-05					42

TABLE 7.7.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adul

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Air	PSC 47	Inhalation	1,2,4-Trichlorobenzene	0.528	ug/L	5.0E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.4E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.001
				1,2-Dibromo-3-Chloropropane	0.225	ug/L	2.1E-06	(mg/kg/day)	8.0E-01	(mg/kg/day)$^{-1}$	1.7E-06	6.2E-06	(mg/kg/day)	2.0E-04	(mg/kg/day)	0.03
				1,4-Dichlorobenzene	0.465	ug/L	4.4E-06	(mg/kg/day)	2.4E-02	(mg/kg/day)$^{-1}$	1.0E-07	1.3E-05	(mg/kg/day)	3.0E-02	(mg/kg/day)	0.0004
				Benzene	1.27	ug/L	1.2E-05	(mg/kg/day)	5.5E-02	(mg/kg/day)$^{-1}$	6.6E-07	3.5E-05	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.009
				Chlorobenzene	0.785	ug/L	7.4E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.2E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.001
				Chloroform	0.108	ug/L	1.0E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	3.0E-06	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.0003
				cis-1,2 Dichloroethene	79.8	ug/L	7.5E-04	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.2E-03	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.2
				Ethylbenzene	6.20	ug/L	5.8E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.7E-04	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.002
				Isopropylbenzene	0.852	ug/L	8.0E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.3E-05	(mg/kg/day)	1.0E-01	(mg/kg/day)	0.0002
				Tetrachloroethene	6.16-06	ug/L	6.1E-06	(mg/kg/day)	5.4E-01	(mg/kg/day)$^{-1}$	3.3E-06	1.8E-05	(mg/kg/day)	1.0E-02	(mg/kg/day)	0.002
				Total Xylenes	32.8	ug/L	3.1E-04	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	9.0E-04	(mg/kg/day)	2.0E-01	(mg/kg/day)	0.004
				trans-1,2-Dichloroethene	0.494	ug/L	4.6E-06	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.4E-05	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.0007
				Trichloroethene	0.993	ug/L	9.5E-06	(mg/kg/day)	1.3E-02	(mg/kg/day)$^{-1}$	1.2E-07	2.7E-05	(mg/kg/day)	5.0E-01	(mg/kg/day)	0.00005
				Vinyl Chloride	0.621	ug/L	5.8E-06	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	8.7E-06	1.7E-05	(mg/kg/day)	3.0E-03	(mg/kg/day)	0.006
				1,1'- Biphenyl	1.79	ug/L	1.7E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	4.9E-05	(mg/kg/day)	5.0E-02	(mg/kg/day)	0.0010
				2,4,5-Trichlorophenol	84.0	ug/L	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	1.0E-01	(mg/kg/day)	--
				2,4-Dichlorophenol	19.2	ug/L	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	3.0E-03	(mg/kg/day)	--
				2-Methylnaphthalene	4.97	ug/L	4.7E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	1.4E-04	(mg/kg/day)	4.0E-03	(mg/kg/day)	0.03
				Naphthalene	8.94	ug/L	8.4E-05	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	2.4E-04	(mg/kg/day)	2.0E-02	(mg/kg/day)	0.01
				Pentachlorophenol	1.15	ug/L	0.0E+00	(mg/kg/day)	1.2E-01	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	3.0E-02	(mg/kg/day)	--
				4,4'-DDD	1.39	ug/L	0.0E+00	(mg/kg/day)	2.4E-01	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDE	0.013	ug/L	0.0E+00	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	--
				4,4'-DDT	0.015	ug/L	0.0E+00	(mg/kg/day)	3.4E-01	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	5.0E-04	(mg/kg/day)	--
				Aldrin	0.372	ug/L	0.0E+00	(mg/kg/day)	1.7E+01	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	3.0E-05	(mg/kg/day)	--
				alpha-BHC	0.514	ug/L	0.0E+00	(mg/kg/day)	6.3E+00	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	--
				alpha-Chlordane	0.106	ug/L	0.0E+00	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	5.0E-04	(mg/kg/day)	--
				beta-BHC	0.276	ug/L	0.0E+00	(mg/kg/day)	1.8E+00	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)	--
				delta-BHC	0.608	ug/L	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	3.0E-04	(mg/kg/day)	--
				Dieldrin	0.025	ug/L	0.0E+00	(mg/kg/day)	1.6E+01	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	5.0E-05	(mg/kg/day)	--
				Endrin Ketone	0.183	ug/L	0.0E+00	(mg/kg/day)	NA	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	3.0E-04	(mg/kg/day)	--
				gamma-BHC (Lindane)	0.723	ug/L	0.0E+00	(mg/kg/day)	1.3E+00	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	3.0E-04	(mg/kg/day)	--
				gamma-Chlordane	0.047	ug/L	0.0E+00	(mg/kg/day)	3.5E-01	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	5.0E-04	(mg/kg/day)	--
				Heptachlor	0.011	ug/L	0.0E+00	(mg/kg/day)	4.5E+00	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	5.0E-04	(mg/kg/day)	--
				Heptachlor Epoxide	0.026	ug/L	0.0E+00	(mg/kg/day)	9.1E+00	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	1.3E-05	(mg/kg/day)	--
				Arsenic	446	ug/L	0.0E+00	(mg/kg/day)	1.5E+00	(mg/kg/day)$^{-1}$	--	0.0E+00	(mg/kg/day)	3.0E-04	(mg/kg/day)	--
			Exp. Route Total								1.5E-05					0.3
		Exposure Point Total									1.5E-05					0.3
	Exposure Medium Total										1.5E-05					0.3
Medium Total											6.5E-03					42
											Total of Receptor Risks Across All Media					43

Note:
Inhalation exposures are assumed to be equal to the exposures from ingestion of groundwater.

LIST OF TABLES
RAGS PART D TABLE 9
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

Table No.	REASONABLE MAXIMUM EXPOSURES
9.1.RME	Construction Workers
9.2.RME	Maintenance Workers
9.3.RME	Occupational Workers
9.4.RME	Adolescent Trespassers
9.5.RME	Adult Trespassers
9.6.RME	Child Residents
9.7.RME	Adult Residents
9.12.RME	Lifelong (Child and Adult) Residents

TABLE 9.1.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Benzo(a)pyrene Equivalents	8E-08	--	3E-08	--	1E-07	NA	--	--	--	--
			4,4'-DDD	8E-08	--	7E-09	--	8E-08	NA	--	--	--	--
			4,4'-DDE	5E-08	--	4E-09	--	5E-08	NA	--	--	--	--
			4,4'-DDT	9E-07	--	8E-08	--	1E-06	Liver	0.4	--	0.03	0.4
			alpha-BHC	3E-08	--	8E-09	--	3E-08	NA	--	--	--	--
			alpha-Chlordane	2E-08	--	3E-09	--	3E-08	Liver	0.009	--	0.001	0.01
			beta-BHC	7E-09	--	2E-09	--	9E-09	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	0.007	--	0.002	0.010
			Dieldrin	2E-07	--	7E-08	--	3E-07	Liver	0.02	--	0.006	0.03
			gamma-BHC (Lindane)	7E-09	--	2E-09	--	9E-09	Liver, Kidney	0.001	--	0.0004	0.002
			gamma-Chlordane	2E-08	--	3E-09	--	2E-08	Liver	0.009	--	0.001	0.010
			Heptachlor	2E-08	--	5E-09	--	2E-08	Liver	0.0005	--	0.0001	0.0006
			Heptachlor Epoxide	2E-08	--	7E-09	--	3E-08	Liver	0.01	--	0.004	0.02
			Arsenic	3E-07	--	3E-08	--	3E-07	Skin, CVS	0.05	--	0.004	0.05
			Chemical Total	2E-06	--	2E-07	--	2E-06		0.5	--	0.05	0.5
		Exposure Point Total						2E-06					0.5
	Exposure Medium Total							2E-06					0.5
	Air	PSC 47	Benzo(a)pyrene Equivalents	--	1E-09	--	--	1E-09	NA	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	4E-08	--	--	4E-08	Liver	--	--	--	--
			alpha-BHC	--	1E-09	--	--	1E-09	NA	--	--	--	--
			alpha-Chlordane	--	9E-10	--	--	9E-10	Liver	--	0.0009	--	0.0009
			beta-BHC	--	3E-10	--	--	3E-10	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	--	--	--	--
			Dieldrin	--	9E-09	--	--	9E-09	Liver	--	--	--	--
			gamma-BHC (Lindane)	--	3E-10	--	--	3E-10	Liver, Kidney	--	--	--	--
			gamma-Chlordane	--	9E-10	--	--	9E-10	Liver	--	0.0009	--	0.0009
			Heptachlor	--	6E-10	--	--	6E-10	Liver	--	--	--	--
			Heptachlor Epoxide	--	9E-10	--	--	9E-10	Liver	--	--	--	--
			Arsenic	--	1E-07	--	--	1E-07	Skin, CVS	--	--	--	--
			Chemical Total	--	2E-07	--	--	2E-07		--	0.002	--	0.002
		Exposure Point Total						2E-07					0.002
	Exposure Medium Total							2E-07					0.002
Medium Total								2E-06					0.5

TABLE 9.1.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	1,2,4-Trichlorobenzene	--	--	--	--	--	Kidney	--	--	0.00008	0.00008
			1,2-Dibromo-3-Chloropropane	--	--	6E-10	--	6E-10	Reproductive	--	--	0.0002	0.0002
			1,4-Dichlorobenzene	--	--	1E-10	--	1E-10	Liver	--	--	0.00001	0.00001
			Benzene	--	--	3E-10	--	3E-10	Blood	--	--	0.00008	0.00008
			Chlorobenzene	--	--	--	--	--	Liver	--	--	0.00002	0.00002
			Chloroform	--	--	--	--	--	Liver	--	--	0.000001	0.000001
			cis-1,2-Dichloroethene	--	--	--	--	--	Blood	--	--	0.002	0.002
			Ethylbenzene	--	--	--	--	--	Liver, Kidney	--	--	0.00005	0.00005
			Isopropylbenzene	--	--	--	--	--	Kidney	--	--	0.00001	0.00001
			Tetrachloroethene	--	--	4E-09	--	4E-09	Liver	--	--	0.00005	0.00005
			Total Xylenes	--	--	--	--	--	Body Weight	--	--	0.0001	0.0001
			trans-1,2-Dichloroethene	--	--	--	--	--	Blood	--	--	0.000003	0.000003
			Trichloroethene	--	--	4E-11	--	4E-11	Liver	--	--	0.0000005	0.0000005
			Vinyl Chloride	--	--	1E-09	--	1E-09	Liver	--	--	0.00002	0.00002
			1,1'- Biphenyl	--	--	--	--	--	Kidney	--	--	0.00006	0.00006
			2,4,5-Trichlorophenol	--	--	--	--	--	Liver, Kidney	--	--	0.0008	0.0008
			2,4-Dichlorophenol	--	--	--	--	--	Immunological	--	--	0.003	0.003
			2-Methylnaphthalene	--	--	--	--	--	Lungs	--	--	0.002	0.002
			Naphthalene	--	--	--	--	--	Body Weight	--	--	0.0004	0.0004
			Pentachlorophenol	--	--	3E-08	--	3E-08	Liver, Kidney	--	--	0.0005	0.0005
			4,4'-DDD	--	--	4E-08	--	4E-08	NA	--	--	--	--
			4,4'-DDE	--	--	4E-10	--	4E-10	NA	--	--	--	--
			4,4'-DDT	--	--	9E-10	--	9E-10	Liver	--	--	0.0004	0.0004
			Aldrin	--	--	9E-09	--	9E-09	Liver	--	--	0.001	0.001
			alpha-BHC	--	--	4E-08	--	4E-08	NA	--	--	--	--
			alpha-Chlordane	--	--	1E-09	--	1E-09	Liver	--	--	0.0006	0.0006
			beta-BHC	--	--	6E-09	--	6E-09	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	--	--	0.002	0.002
			Dieldrin	--	--	5E-09	--	5E-09	Liver	--	--	0.0004	0.0004
			Endrin Ketone	--	--	--	--	--	Liver	--	--	0.0009	0.0009
			gamma-BHC (Lindane)	--	--	6E-09	--	6E-09	Liver, Kidney	--	--	0.001	0.001
			gamma-Chlordane	--	--	6E-10	--	6E-10	Liver	--	--	0.0002	0.0002

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	Heptachlor	--	--	4E-10	--	4E-10	Liver	--	--	0.00001	0.00001
			Heptachlor Epoxide	--	--	2E-09	--	2E-09	Liver	--	--	0.001	0.001
			Arsenic	--	--	1E-07	--	1E-07	Skin, CVS	--	--	0.02	0.02
			Chemical Total	--	--	3E-07	--	3E-07		--	--	0.04	0.04
		Exposure Point Total						3E-07					0.04
	Exposure Medium Total							3E-07					0.04
	Groundwater	PSC 47	1,2,4-Trichlorobenzene	--	--	--	--	--	Kidney	--	--	--	--
			1,2-Dibromo-3-Chloropropane	--	--	--	--	--	Reproductive	--	--	--	--
			1,4-Dichlorobenzene	--	5E-11	--	--	5E-11	Liver	--	0.0000007	--	0.0000007
			Benzene	--	2E-10	--	--	2E-10	Blood	--	0.00007	--	0.00007
			Chlorobenzene	--	--	--	--	--	Liver	--	0.00002	--	0.00002
			Chloroform	--	5E-11	--	--	5E-11	Liver	--	0.000003	--	0.000003
			cis-1,2-Dichloroethene	--	--	--	--	--	Blood	--	--	--	--
			Ethylbenzene	--	--	--	--	--	Liver, Kidney	--	0.000009	--	0.000009
			Isopropylbenzene	--	--	--	--	--	Kidney	--	0.000003	--	0.000003
			Tetrachloroethene	--	6E-11	--	--	6E-11	Liver	--	0.000003	--	0.000003
			Total Xylenes	--	--	--	--	--	Body Weight	--	0.0005	--	0.0005
			trans-1,2-Dichloroethene	--	--	--	--	--	Blood	--	0.00001	--	0.00001
			Trichloroethene	--	4E-11	--	--	4E-11	Liver	--	0.000002	--	0.000002
			Vinyl Chloride	--	2E-10	--	--	2E-10	Liver	--	0.00001	--	0.00001
			1,1'- Biphenyl	--	--	--	--	--	Kidney	--	--	--	--
			2,4,5-Trichlorophenol	--	--	--	--	--	Liver, Kidney	--	--	--	--
			2,4-Dichlorophenol	--	--	--	--	--	Immunological	--	--	--	--
			2-Methylnaphthalene	--	--	--	--	--	Lungs	--	--	--	--
			Naphthalene	--	--	--	--	--	Body Weight	--	0.004	--	0.004
			Pentachlorophenol	--	--	--	--	--	Liver, Kidney	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	--	--	--	--	Liver	--	--	--	--
			Aldrin	--	--	--	--	--	Liver	--	--	--	--
			alpha-BHC	--	--	--	--	--	NA	--	--	--	--
			alpha-Chlordane	--	--	--	--	--	Liver	--	--	--	--
			beta-BHC	--	--	--	--	--	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	--	--	--	--
			Dieldrin	--	--	--	--	--	Liver	--	--	--	--

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	exposure Routes Total
Groundwater	Groundwater	PSC 47	Endrin Ketone	--	--	--	--	--	Liver	--	--	--	--
			gamma-BHC (Lindane)	--	--	--	--	--	Liver, Kidney	--	--	--	--
			gamma-Chlordane	--	--	--	--	--	Liver	--	--	--	--
			Heptachlor	--	--	--	--	--	Liver	--	--	--	--
			Heptachlor Epoxide	--	--	--	--	--	Liver	--	--	--	--
			Arsenic	--	--	--	--	--	Skin, CVS	--	--	--	--
			Chemical Total	--	6E-10	--	--	6E-10		--	0.004	--	0.004
		Exposure Point Total						6E-10					0.004
	Exposure Medium Total							6E-10					0.004
Medium Total								3E-07					0.04
Receptor Total							Receptor Risk Total	2E-06				Receptor HI Total	0.6

Total Blood HI	0.002
Total Body Weight HI	0.005
Tota CVS HI	0.07
Total Kidney HI	0.02
Total Liver HI	0.5
Total Skin HI	0.07
Total Immunological HI	0.003
Total Reproductive HI	0.0002

TABLE 9.2.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Receptor Population: Maintenance Workers
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	PSC 47	Benzo(a)pyrene Equivalents	1E-07	--	1E-07	--	2E-07	NA	--	--	--	--
			4,4'-DDD	1E-08	--	4E-09	--	2E-08	NA	--	--	--	--
			4,4'-DDE	3E-08	--	9E-09	--	4E-08	NA	--	--	--	--
			4,4'-DDT	8E-07	--	3E-07	--	1E-06	Liver	0.01	--	0.004	0.02
			Alpha Chlordane	3E-08	--	1E-08	--	5E-08	Liver	0.0006	--	0.0002	0.0008
			Dieldrin	2E-07	--	2E-07	--	4E-07	Liver	0.0007	--	0.0007	0.001
			Gamma Chlordane	3E-08	--	1E-08	--	4E-08	Liver	0.0004	--	0.0002	0.0006
			Heptachlor	4E-08	--	4E-08	--	8E-08	Liver	0.00005	--	0.00005	0.0001
			Heptachlor Epoxide	4E-08	--	4E-08	--	9E-08	Liver	0.001	--	0.001	0.002
			Arsenic	2E-07	--	8E-08	--	3E-07	Skin, CVS	0.002	--	0.0005	0.002
			Chemical Total	2E-06	--	8E-07	--	2E-06		0.02	--	0.007	0.02
		Exposure Point Total						2E-06					0.02
	Exposure Medium Total							2E-06					0.02
	Air	PSC 47	Benzo(a)pyrene Equivalents	--	1E-11	--	--	1E-11	NA	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	3E-10	--	--	3E-10	Liver	--	--	--	--
			Alpha Chlordane	--	1E-11	--	--	1E-11	Liver	--	0.0000004	--	0.0000004
			Dieldrin	--	6E-11	--	--	6E-11	Liver	--	--	--	--
			Gamma Chlordane	--	8E-12	--	--	8E-12	Liver	--	0.0000003	--	0.0000003
			Heptachlor	--	1E-11	--	--	1E-11	Liver	--	--	--	--
			Heptachlor Epoxide	--	1E-11	--	--	1E-11	Liver	--	--	--	--
			Arsenic	--	8E-10	--	--	8E-10	Skin, CVS	--	--	--	--
			Chemical Total	--	1E-09	--	--	1E-09		--	0.0000008	--	0.0000008
		Exposure Point Total						1E-09					0.0000008
	Exposure Medium Total							1E-09					0.0000008
Medium Total								2E-06					0.02
Receptor Total							Receptor Risk Total	2E-06				Receptor HI Total	0.02

Total CVS HI	0.002
Total Liver HI	0.02
Total Skin HI	0.002

TABLE 9.3.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURES

NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Receptor Population: Occupational Workers
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	PSC 47	Benzo(a)pyrene Equivalents	2E-06	--	1E-06	--	3E-05	NA	--	--	--	--
			4,4'-DDD	2E-07	--	4E-08	--	3E-07	NA	--	--	--	--
			4,4'-DDE	5E-07	--	1E-07	--	6E-07	NA	--	--	--	--
			4,4'-DDT	1E-05	--	3E-06	--	2E-05	Liver	0.2	--	0.04	0.3
			Alpha-Chlordane	6E-07	--	2E-07	--	7E-07	Liver	0.009	--	0.002	0.01
			Dieldrin	3E-06	--	2E-06	--	5E-06	Liver	0.01	--	0.008	0.02
			Gamma-Chlordane	4E-07	--	1E-07	--	6E-07	Liver	0.007	--	0.002	0.009
			Heptachlor	7E-07	--	4E-07	--	1E-06	Liver	0.0008	--	0.0006	0.001
			Heptachlor Epoxide	7E-07	--	5E-07	--	1E-06	Liver	0.02	--	0.01	0.03
			Arsenic	4E-06	--	8E-07	--	5E-06	Skin, CVS	0.03	--	0.005	0.03
			Chemical Total	3E-05	--	8E-06	--	3E-05		0.3	--	0.07	0.4
		Exposure Point Total						3E-05					0.4
	Exposure Medium Total							3E-05					0.4
	Air	PSC 47	Benzo(a)pyrene Equivalents	--	1E-10	--	--	1E-10	NA	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	2E-09	--	--	2E-09	Liver	--	--	--	--
			Alpha-Chlordane	--	9E-11	--	--	9E-11	Liver	--	0.000004	--	0.000004
			Dieldrin	--	5E-10	--	--	5E-10	Liver	--	--	--	--
			Gamma-Chlordane	--	7E-11	--	--	7E-11	Liver	--	0.000003	--	0.000003
			Heptachlor	--	1E-10	--	--	1E-10	Liver	--	--	--	--
			Heptachlor Epoxide	--	1E-10	--	--	1E-10	Liver	--	--	--	--
			Arsenic	--	7E-09	--	--	7E-09	Skin, CVS	--	--	--	--
			Chemical Total	--	1E-08	--	--	1E-08		--	0.000007	--	0.000007
		Exposure Point Total						1E-08					0.000007
	Exposure Medium Total							1E-08					0.000007
Medium Total								3E-05					0.4
Receptor Total							Receptor Risk Total	3E-05				Receptor HI Total	0.4

Total CVS HI	0.03
Total Liver HI	0.3
Total Skin HI	0.03

TABLE 9.4.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Receptor Population: Trespassers
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Surface Soil	PSC 47	Benzo(a)pyrene Equivalents	4E-07	--	3E-07	--	8E-07	NA	--	--	--	--
			4,4'-DDD	5E-08	--	1E-08	--	6E-08	NA	--	--	--	--
			4,4'-DDE	1E-07	--	2E-08	--	1E-07	NA	--	--	--	--
			4,4'-DDT	3E-06	--	7E-07	--	4E-06	Liver	0.1	--	0.03	0.2
			Alpha-Chlordane	1E-07	--	4E-08	--	2E-07	Liver	0.006	--	0.002	0.007
			Dieldrin	8E-07	--	5E-07	--	1E-06	Liver	0.007	--	0.005	0.01
			Gamma-Chlordane	1E-07	--	3E-08	--	1E-07	Liver	0.004	--	0.001	0.005
			Heptachlor	2E-07	--	1E-07	--	3E-07	Liver	0.0005	--	0.0003	0.0009
			Heptachlor Epoxide	2E-07	--	1E-07	--	3E-07	Liver	0.01	--	0.007	0.02
			Arsenic	1E-06	--	2E-07	--	1E-06	Skin, CVS	0.02	--	0.003	0.02
			Chemical Total	6E-06	--	2E-06	--	9E-06		0.2	--	0.05	0.2
		Exposure Point Total						9E-06					0.2
	Exposure Medium Total							9E-06					0.2
	Air	PSC 47	Benzo(a)pyrene Equivalents	--	7E-12	--	--	7E-12	NA	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	1E-10	--	--	1E-10	Liver	--	--	--	--
			Alpha-Chlordane	--	6E-12	--	--	6E-12	Liver	--	0.0000006	--	0.0000006
			Dieldrin	--	3E-11	--	--	3E-11	Liver	--	--	--	--
			Gamma-Chlordane	--	4E-12	--	--	4E-12	Liver	--	0.0000004	--	0.0000004
			Heptachlor	--	7E-12	--	--	7E-12	Liver	--	--	--	--
			Heptachlor Epoxide	--	7E-12	--	--	7E-12	Liver	--	--	--	--
			Arsenic	--	4E-10	--	--	4E-10	Skin, CVS	--	--	--	--
			Chemical Total	--	6E-10	--	--	6E-10		--	0.0000010	--	0.0000010
		Exposure Point Total						6E-10					0.0000010
	Exposure Medium Total							6E-10					0.0000010
Medium Total								9E-06					0.2
Receptor Total							Receptor Risk Total	9E-06				Receptor HI Total	0.2

Total CVS HI	0.02
Total Liver HI	0.2
Total Skin HI	0.02

TABLE 9.5.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Current/Future
Receptor Population: Trespassers
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Benzo(a)pyrene Equivalents	2E-07	--	1E-07	--	4E-07	NA	--	--	--	--
			4,4'-DDD	3E-08	--	4E-09	--	3E-08	NA	--	--	--	--
			4,4'-DDE	7E-08	--	8E-09	--	8E-08	NA	--	--	--	--
			4,4'-DDT	2E-06	--	2E-07	--	2E-06	Liver	0.04	--	0.005	0.05
			Alpha-Chlordane	8E-08	--	1E-08	--	1E-07	Liver	0.002	--	0.0003	0.002
			Dieldrin	5E-07	--	2E-07	--	7E-07	Liver	0.002	--	0.0008	0.003
			Gamma-Chlordane	6E-08	--	1E-08	--	7E-08	Liver	0.001	--	0.0002	0.001
			Heptachlor	1E-07	--	4E-08	--	1E-07	Liver	0.0002	--	0.00006	0.0002
			Heptachlor Epoxide	1E-07	--	4E-08	--	1E-07	Liver	0.003	--	0.001	0.004
			Arsenic	6E-07	--	7E-08	--	7E-07	Skin, CVS	0.005	--	0.0005	0.005
			Chemical Total	4E-06	--	7E-07	--	4E-06		0.05	--	0.008	0.06
		Exposure Point Total						4E-06					0.06
	Exposure Medium Total							4E-06					0.06
	Air	PSC 47	Benzo(a)pyrene Equivalents	--	1E-11	--	--	1E-11	NA	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	2E-10	--	--	2E-10	Liver	--	--	--	--
			Alpha-Chlordane	--	1E-11	--	--	1E-11	Liver	--	0.0000005	--	0.0000005
			Dieldrin	--	6E-11	--	--	6E-11	Liver	--	--	--	--
			Gamma-Chlordane	--	7E-12	--	--	7E-12	Liver	--	0.0000004	--	0.0000004
			Heptachlor	--	1E-11	--	--	1E-11	Liver	--	--	--	--
			Heptachlor Epoxide	--	1E-11	--	--	1E-11	Liver	--	--	--	--
			Arsenic	--	7E-10	--	--	7E-10	Skin, CVS	--	--	--	--
			Chemical Total	--	1E-09	--	--	1E-09		--	0.0000008	--	0.0000008
		Exposure Point Total						1E-09					0.0000008
	Exposure Medium Total							1E-09					0.0000008
Medium Total								4E-06					0.06
Receptor Total							Receptor Risk Total	4E-06				Receptor HI Total	0.06

Total CVS HI	0.005
Total Liver HI	0.06
Total Skin HI	0.005

TABLE 9.6.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Benzo(a)pyrene Equivalents	5E-06	--	2E-06	--	7E-06	NA	--	--	--	--
			4,4'-DDD	5E-06	--	4E-07	--	5E-06	NA	--	--	--	--
			4,4'-DDE	3E-06	--	3E-07	--	3E-06	NA	--	--	--	--
			4,4'-DDT	6E-05	--	5E-06	--	7E-05	Liver	4	--	0.4	5
			alpha-BHC	2E-06	--	5E-07	--	2E-06	NA	--	--	--	--
			alpha-Chlordane	2E-06	--	2E-07	--	2E-06	Liver	0.1	--	0.01	0.1
			beta-BHC	4E-07	--	1E-07	--	6E-07	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	0.08	--	0.02	0.1
			Dieldrin	1E-05	--	4E-06	--	2E-05	Liver	0.2	--	0.06	0.3
			gamma-BHC (Lindane)	4E-07	--	1E-07	--	6E-07	Liver, Kidney	0.01	--	0.004	0.02
			gamma-Chlordane	1E-06	--	2E-07	--	2E-06	Liver	0.10	--	0.01	0.1
			Heptachlor	1E-06	--	3E-07	--	1E-06	Liver	0.005	--	0.001	0.007
			Heptachlor Epoxide	2E-06	--	4E-07	--	2E-06	Liver	0.2	--	0.04	0.2
			Arsenic	2E-05	--	2E-06	--	2E-05	Skin, CVS	0.5	--	0.04	0.6
			Chemical Total	1E-04	--	2E-05	--	1E-04		5	--	0.5	6
		Exposure Point Total						1E-04					6
	Exposure Medium Total							1E-04					6
	Air	PSC 47	Benzo(a)pyrene Equivalents	--	7E-11	--	--	7E-11	NA	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	2E-09	--	--	2E-09	Liver	--	--	--	--
			alpha-BHC	--	5E-11	--	--	5E-11	NA	--	--	--	--
			alpha-Chlordane	--	5E-11	--	--	5E-11	Liver	--	0.000008	--	0.000008
			beta-BHC	--	2E-11	--	--	2E-11	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	--	--	--	--
			Dieldrin	--	5E-10	--	--	5E-10	Liver	--	--	--	--
			gamma-BHC (Lindane)	--	1E-11	--	--	1E-11	Liver, Kidney	--	--	--	--
			gamma-Chlordane	--	5E-11	--	--	5E-11	Liver	--	0.000008	--	0.000008
			Heptachlor	--	3E-11	--	--	3E-11	Liver	--	--	--	--
			Heptachlor Epoxide	--	5E-11	--	--	5E-11	Liver	--	--	--	--
			Arsenic	--	7E-09	--	--	7E-09	Skin, CVS	--	--	--	--
			Chemical Total	--	9E-09	--	--	9E-09		--	0.00002	--	0.00002
		Exposure Point Total						9E-09					0.00002
	Exposure Medium Total							9E-09					0.00002
Medium Total								1E-04					6

TABLE 9.6.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Residen
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	1,2,4-Trichlorobenzene	--	--	--	--	--	Kidney	0.005	--	0.002	0.008
			1,2-Dibromo-3-Chloropropane	1E-06	--	1E-07	--	2E-06	Reproductive	0.1	--	0.008	0.1
			1,4-Dichlorobenzene	9E-08	--	2E-08	--	1E-07	Liver	0.001	--	0.0004	0.002
			Benzene	6E-07	--	3E-08	--	6E-07	Blood	0.03	--	0.002	0.03
			Chlorobenzene	--	--	--	--	--	Liver	0.004	--	0.0005	0.004
			Chloroform	--	--	--	--	--	Liver	0.001	--	0.00003	0.001
			cis-1,2-Dichloroethene	--	--	--	--	--	Blood	0.8	--	0.04	0.8
			Ethylbenzene	--	--	--	--	--	Liver, Kidney	0.006	--	0.001	0.007
			Isopropylbenzene	--	--	--	--	--	Kidney	0.0008	--	0.0004	0.001
			Tetrachloroethene	3E-06	--	6E-07	--	4E-06	Liver	0.006	--	0.001	0.008
			Total Xylenes	--	--	--	--	--	Body Weight	0.02	--	0.003	0.02
			trans-1,2-Dichloroethene	--	--	--	--	--	Blood	0.002	--	0.00008	0.002
			Trichloroethene	1E-07	--	7E-09	--	1E-07	Liver	0.0002	--	0.00001	0.0002
			Vinyl Chloride	8E-06	--	1E-07	--	8E-06	Liver	0.02	--	0.0004	0.02
			1,1 - Biphenyl	--	--	--	--	--	Kidney	0.003	--	0.002	0.005
			2,4,5-Trichlorophenol	--	--	--	--	--	Liver, Kidney	0.08	--	0.02	0.1
			2,4-Dichlorophenol	--	--	--	--	--	Immunological	0.6	--	0.08	0.7
			2-Methylnaphthalene	--	--	--	--	--	Lungs	0.1	--	0.06	0.2
			Naphthalene	--	--	--	--	--	Body Weight	0.04	--	0.01	0.05
			Pentachlorophenol	1E-06	--	5E-06	--	6E-06	Liver, Kidney	0.004	--	0.02	0.02
			4,4'-DDD	3E-06	--	7E-06	--	1E-05	NA	--	--	--	--
			4,4'-DDE	4E-08	--	8E-08	--	1E-07	NA	--	--	--	--
			4,4'-DDT	4E-08	--	2E-07	--	2E-07	Liver	0.003	--	0.01	0.02
			Aldrin	5E-05	--	2E-06	--	5E-05	Liver	1	--	0.04	1
			alpha-BHC	3E-05	--	8E-06	--	3E-05	NA	--	--	--	--
			alpha-Chlordane	3E-07	--	3E-07	--	6E-07	Liver	0.02	--	0.02	0.04
			beta-BHC	4E-06	--	1E-06	--	5E-06	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	0.2	--	0.06	0.3
			Dieldrin	3E-06	--	9E-07	--	4E-06	Liver	0.05	--	0.01	0.06
			Endrin Ketone	--	--	--	--	--	Liver	0.06	--	0.03	0.09

TABLE 9.6.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	gamma-BHC (Lindane)	8E-06	-	1E-06	--	9E-06	Liver, Kidney	0.2	--	0.03	0.3
			gamma-Chlordane	1E-07	--	1E-07	--	3E-07	Liver	0.009	--	0.008	0.02
			Heptachlor	4E-07	--	7E-08	--	5E-07	Liver	0.002	--	0.0004	0.002
			Heptachlor Epoxide	2E-06	-	3E-07	--	2E-06	Liver	0.2	--	0.03	0.2
			Arsenic	5E-03	--	8E-06	--	6E-03	Skin, CVS	143	--	0.2	143
			Chemical Total	6E-03	--	4E-05	--	6E-03		146	--	0.7	147
		Exposure Point Total						6E-03					147
	Exposure Medium Total							6E-03					147
	Groundwater	PSC 47	1,2,4-Trichlorobenzene	--	--	--	--	--	Kidney	--	0.005	--	0.005
			1,2-Dibromo-3-Chloropropane	--	1E-06	--	--	1E-06	Reproductive	--	0.1	--	0.1
			1,4-Dichlorobenzene	--	9E-08	--	--	9E-08	Liver	--	0.001	--	0.001
			Benzene	--	6E-07	--	--	6E-07	Blood	--	0.03	--	0.03
			Chlorobenzene	--	--	--	--	--	Liver	--	0.004	--	0.004
			Chloroform	--	--	--	--	--	Liver	--	0.001	--	0.001
			cis-1,2-Dichloroethene	--	--	--	--	--	Blood	--	0.8	--	0.8
			Ethylbenzene	--	--	--	--	--	Liver, Kidney	--	0.006	--	0.006
			Isopropylbenzene	--	--	--	--	--	Kidney	--	0.0008	--	0.0008
			Tetrachloroethene	--	3E-06	--	--	3E-06	Liver	--	0.006	--	0.006
			Total Xylenes	--	--	--	--	--	Body Weight	--	0.02	--	0.02
			trans-1,2-Dichloroethene	--	--	--	--	--	Blood	--	0.002	--	0.002
			Trichloroethene	--	1E-07	--	--	1E-07	Liver	--	0.0002	--	0.0002
			Vinyl Chloride	--	8E-06	--	--	8E-06	Liver	--	0.02	--	0.02
			1,1'- Biphenyl	-	--	--	--	--	Kidney	--	0.003	--	0.003
			2,4,5-Trichlorophenol	-	--	--	--	--	Liver, Kidney	--	--	--	--
			2,4-Dichlorophenol	-	--	--	--	--	Immunological	--	--	--	--
			2-Methylnaphthalene	-	--	--	--	--	Lungs	--	0.1	--	0.1
			Naphthalene	--	--	--	--	--	Body Weight	--	0.04	--	0.04
			Pentachlorophenol	--	--	--	--	--	Liver, Kidney	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	--	--	--	--	Liver	--	--	--	--
			Aldrin	--	--	--	--	--	Liver	--	--	--	--
			alpha-BHC	--	--	--	--	--	NA	--	--	--	--
			alpha-Chlordane	--	--	--	--	--	Liver	--	--	--	--
			beta-BHC	--	--	--	--	--	NA	--	--	--	--

TABLE 9.6.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	delta-BHC	--	--	--	--	--	Liver, Kidney	--	--	--	--
			Dieldrin	--	--	--	--	--	Liver	--	--	--	--
			Endrin Ketone	--	--	--	--	--	Liver	--	--	--	--
			gamma-BHC (Lindane)	--	--	--	--	--	Liver, Kidney	--	--	--	--
			gamma-Chlordane	--	--	--	--	--	Liver	--	--	--	--
			Heptachlor	--	--	--	--	--	Liver	--	--	--	--
			Heptachlor Epoxide	--	--	--	--	--	Liver	--	--	--	--
			Arsenic	--	--	--	--	--	Skin, CVS	--	--	--	--
			Chemical Total	--	1E-05	--	--	1E-05		--	1	--	1
		Exposure Point Total						1E-05					1
	Exposure Medium Total							1E-05					1
Medium Total								6E-03					148
Receptor Total							Receptor Risk Total	6E-03				Receptor HI Total	154

Note:
Inhalation exposures are assumed to be equal to the exposures from ingestion of groundwater.

Total Blood HI	2
Total Body Weight HI	0.1
Total CVS HI	143
Total Kidney HI	0.8
Total Liver HI	8
Total Skin HI	143
Total Immunological HI	0.7
Total Reproductive HI	0.2

TABLE 9.7.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Benzo(a)pyrene Equivalents	2E-06	--	1E-06	--	3E-06	NA	--	--	--	--
			4,4'-DDD	2E-06	--	3E-07	--	2E-06	NA	--	--	--	--
			4,4'-DDE	1E-06	--	2E-07	--	2E-06	NA	--	--	--	--
			4,4'-DDT	3E-06	--	3E-06	--	3E-06	Liver	0.4	--	0.05	0.5
			alpha-BHC	7E-07	--	3E-07	--	1E-06	NA	--	--	--	--
			alpha-Chlordane	7E-07	--	1E-07	--	8E-07	Liver	0.01	--	0.002	0.01
			beta-BHC	2E-07	--	8E-08	--	3E-07	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	0.009	--	0.003	0.01
			Dieldrin	6E-06	--	3E-06	--	9E-06	Liver	0.02	--	0.009	0.03
			gamma-BHC (Lindane)	2E-07	--	8E-08	--	3E-07	Liver, Kidney	0.001	--	0.0006	0.002
			gamma-Chlordane	6E-07	--	1E-07	--	7E-07	Liver	0.01	--	0.002	0.01
			Heptachlor	4E-07	--	2E-07	--	6E-07	Liver	0.0006	--	0.0002	0.0008
			Heptachlor Epoxide	7E-07	--	3E-07	--	9E-07	Liver	0.02	--	0.006	0.02
			Arsenic	9E-06	--	1E-06	--	1E-05	Skin, CVS	0.06	--	0.007	0.06
			Chemical Total	5E-05	--	9E-06	--	6E-05		0.6	--	0.08	0.7
		Exposure Point Total						6E-05					0.7
	Exposure Medium Total							6E-05					0.7
	Air	PSC 47	Benzo(a)pyrene Equivalents	--	2E-10	--	--	2E-10	NA	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	4E-09	--	--	4E-09	Liver	--	--	--	--
			alpha-BHC	--	1E-10	--	--	1E-10	NA	--	--	--	--
			alpha-Chlordane	--	1E-10	--	--	1E-10	Liver	--	0.000004	--	0.000004
			beta-BHC	--	3E-11	--	--	3E-11	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	--	--	--	--
			Dieldrin	--	1E-09	--	--	1E-09	Liver	--	--	--	--
			gamma-BHC (Lindane)	--	3E-11	--	--	3E-11	Liver, Kidney	--	--	--	--
			gamma-Chlordane	--	1E-10	--	--	1E-10	Liver	--	0.000004	--	0.000004
			Heptachlor	--	7E-11	--	--	7E-11	Liver	--	--	--	--
			Heptachlor Epoxide	--	1E-10	--	--	1E-10	Liver	--	--	--	--
			Arsenic	--	1E-08	--	--	1E-08	Skin, CVS	--	--	--	--
			Chemical Total	--	2E-08	--	--	2E-08		--	0.000009	--	0.000009
		Exposure Point Total						2E-08					0.000009
	Exposure Medium Total							2E-08					0.000009
Medium Total								6E-05					0.7

TABLE 9.7.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	1,2,4-Trichlorobenzene	--	--	--	--	--	Kidney	0.001	--	0.001	0.003
			1,2-Dibromo-3-Chloropropane	2E-06	--	2E-07	--	2E-06	Reproductive	0.03	--	0.004	0.03
			1,4-Dichlorobenzene	1E-07	--	5E-08	--	2E-07	Liver	0.0004	--	0.0002	0.0006
			Benzene	7E-07	--	7E-08	--	7E-07	Blood	0.009	--	0.0009	0.010
			Chlorobenzene	--	--	--	--	--	Liver	0.001	--	0.0003	0.001
			Chloroform	--	--	--	--	--	Liver	0.0003	--	0.00002	0.0003
			cis-1,2-Dichloroethene	--	--	--	--	--	Blood	0.2	--	0.02	0.2
			Ethylbenzene	--	--	--	--	--	Liver, Kidney	0.002	--	0.0007	0.002
			Isopropylbenzene	--	--	--	--	--	Kidney	0.0002	--	0.0002	0.0004
			Tetrachloroethene	3E-06	--	1E-06	--	5E-06	Liver	0.002	--	0.0007	0.003
			Total Xylenes	--	--	--	--	--	Body Weight	0.004	--	0.002	0.006
			trans-1,2-Dichloroethene	--	--	--	--	--	Blood	0.0007	--	0.00004	0.0007
			Trichloroethene	1E-07	--	1E-08	--	1E-07	Liver	0.00005	--	0.000006	0.00005
			Vinyl Chloride	9E-06	--	3E-07	--	9E-06	Liver	0.006	--	0.0002	0.006
			1,1'- Biphenyl	--	--	--	--	--	Kidney	0.0010	--	0.0010	0.002
			2,4,5-Trichlorophenol	--	--	--	--	--	Liver, Kidney	0.02	--	0.01	0.03
			2,4-Dichlorophenol	--	--	--	--	--	Immunological	0.2	--	0.04	0.2
			2-Methylnaphthalene	--	--	--	--	--	Lungs	0.03	--	0.03	0.06
			Naphthalene	--	--	--	--	--	Body Weight	0.01	--	0.005	0.02
			Pentachlorophenol	1E-05	--	1E-05	--	1E-05	Liver, Kidney	0.001	--	0.008	0.009
			4,4'-DED	3E-06	--	1E-05	--	2E-05	NA	--	--	--	--
			4,4'-DDE	4E-08	--	2E-07	--	2E-07	NA	--	--	--	--
			4,4'-DDT	5E-08	--	4E-07	--	4E-07	Liver	0.0008	--	0.006	0.007
			Aldrin	6E-05	--	4E-06	--	6E-05	Liver	0.3	--	0.02	0.4
			alpha-BHC	3E-05	--	2E-05	--	5E-05	NA	--	--	--	--
			alpha-Chlordane	3E-07	--	5E-07	--	9E-07	Liver	0.006	--	0.009	0.01
			beta-BHC	5E-06	--	2E-06	--	7E-06	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	0.06	--	0.03	0.08
			Dieldrin	4E-06	--	2E-06	--	6E-06	Liver	0.01	--	0.006	0.02

TABLE 9.7.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA
PAGE 3 OF 4

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	Endrin Ketone	--	--	--	--	--	Liver	0.02	--	0.01	0.03
			gamma-BHC (Lindane)	9E-06	--	2E-05	--	1E-05	Liver, Kidney	0.07	--	0.02	0.08
			gamma-Chlordane	2E-07	--	2E-07	--	4E-07	Liver	0.003	--	0.004	0.006
			Heptachlor	5E-07	--	1E-07	--	6E-07	Liver	0.0006	--	0.0002	0.0008
			Heptachlor Epoxide	2E-06	--	7E-07	--	3E-06	Liver	0.05	--	0.02	0.07
			Arsenic	6E-03	--	1E-05	--	6E-03	Skin, CVS	41	--	0.09	41
			Chemical Total	6E-03	--	7E-05	--	6E-03		42	--	0.3	42
		Exposure Point Total						6E-03					42
	Exposure Medium Total							6E-03					42
	Groundwater	PSC 47	1,2,4-Trichlorobenzene	--	--	--	--	--	Kidney	--	0.001	--	0.001
			1,2-Dibromo-3-Chloropropane	--	2E-06	--	--	2E-06	Reproductive	--	0.03	--	0.03
			1,4-Dichlorobenzene	--	1E-07	--	--	1E-07	Liver	--	0.0004	--	0.0004
			Benzene	--	7E-07	--	--	7E-07	Blood	--	0.009	--	0.009
			Chlorobenzene	--	--	--	--	--	Liver	--	0.001	--	0.001
			Chloroform	--	--	--	--	--	Liver	--	0.0003	--	0.0003
			cis-1,2-Dichloroethene	--	--	--	--	--	Blood	--	0.2	--	0.2
			Ethylbenzene	--	--	--	--	--	Liver, Kidney	--	0.002	--	0.002
			Isopropylbenzene	--	--	--	--	--	Kidney	--	0.0002	--	0.0002
			Tetrachloroethene	--	3E-06	--	--	3E-06	Liver	--	0.002	--	0.002
			Total Xylenes	--	--	--	--	--	Body Weight	--	0.004	--	0.004
			trans-1,2-Dichloroethene	--	--	--	--	--	Blood	--	0.0007	--	0.0007
			Trichloroethene	--	1E-07	--	--	1E-07	Liver	--	0.00005	--	0.00005
			Vinyl Chloride	--	9E-06	--	--	9E-06	Liver	--	0.006	--	0.006
			1,1'-Biphenyl	--	--	--	--	--	Kidney	--	0.0010	--	0.0010
			2,4,5-Trichlorophenol	--	--	--	--	--	Liver, Kidney	--	--	--	--
			2,4-Dichlorophenol	--	--	--	--	--	Immunological	--	--	--	--
			2-Methylnaphthalene	--	--	--	--	--	Lungs	--	0.03	--	0.03
			Naphthalene	--	--	--	--	--	Body Weight	--	0.01	--	0.01
			Pentachlorophenol	--	--	--	--	--	Liver, Kidney	--	--	--	--
			4,4'-DDD	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDE	--	--	--	--	--	NA	--	--	--	--
			4,4'-DDT	--	--	--	--	--	Liver	--	--	--	--
			Aldrin	--	--	--	--	--	Liver	--	--	--	--
			alpha-BHC	--	--	--	--	--	NA	--	--	--	--
			alpha-Chlordane	--	--	--	--	--	Liver	--	--	--	--

TABLE 9.7.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA
PAGE 4 OF 4

Scenario Timeframe: Future
Receptor Population: Residen
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	beta-BHC	--	--	--	--	--	NA	--	--	--	--
			delta-BHC	--	--	--	--	--	Liver, Kidney	--	--	--	--
			Dieldrin	--	--	--	--	--	Liver	--	--	--	--
			Endrin Ketone	--	--	--	--	--	Liver	--	--	--	--
			gamma-BHC (Lindane)	--	--	--	--	--	Liver, Kidney	--	--	--	--
			gamma-Chlordane	--	--	--	--	--	Liver	--	--	--	--
			Heptachlor	--	--	--	--	--	Liver	--	--	--	--
			Heptachlor Epoxide	--	--	--	--	--	Liver	--	--	--	--
			Arsenic	--	--	--	--	--	Skin, CVS	--	--	--	--
			Chemical Total	--	1E-05	--	--	1E-05		--	0.3	--	0.3
		Exposure Point Total						1E-05					0.3
	Exposure Medium Total							1E-05					0.3
Medium Total								6E-03					42
Receptor Total							Receptor Risk Total	7E-03				Receptor HI Total	43

Note:
Inhalation exposures are assumed to be equal to the exposures from ingestion of groundwater.

Total Blood HI	0.5
Total Body Weight HI	0.04
Total CVS HI	41
Total Kidney HI	0.2
Total Liver HI	1
Total Skin HI	41
Total Immunological HI	0.2
Total Reproductive HI	0.07

TABLE 8.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Lifelong (Child and Adult)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Externa (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil/Subsurface Soil	Surface/Subsurface Soil	PSC 47	Benzo(a)pyrene Equivalents	7E-06	--	3E-06	--	1E-05					
			4,4'-DDD	7E-06	--	7E-07	--	8E-06					
			4,4'-DDE	5E-06	--	4E-07	--	5E-06					
			4,4'-DDT	9E-05	--	8E-06	--	9E-05					
			alpha-BHC	2E-06	--	8E-07	--	3E-06					
			alpha-Chlordane	2E-06	--	3E-07	--	2E-06					
			beta-BHC	6E-07	--	2E-07	--	8E-07					
			delta-BHC	--	--	--	--	--					
			Dieldrin	2E-05	--	7E-06	--	3E-05					
			gamma-BHC (Lindane)	6E-07	--	2E-07	--	8E-07					
			gamma-Chlordane	2E-06	--	3E-07	--	2E-06					
			Heptachlor	1E-06	--	5E-07	--	2E-06					
			Heptachlor Epoxide	2E-06	--	7E-07	--	3E-06					
			Arsenic	3E-06	--	3E-06	--	3E-05					
			Chemical Total	2E-04	--	2E-05	--	2E-04					
		Exposure Point Total						2E-04					
	Exposure Medium Total							2E-04					
	Air	PSC 47	Benzo(a)pyrene Equivalents	--	2E-10	--	--	2E-10					
			4,4'-DDD	--	--	--	--	--					
			4,4'-DDE	--	--	--	--	--					
			4,4'-DDT	--	6E-09	--	--	6E-09					
			alpha-BHC	--	2E-10	--	--	2E-10					
			alpha-Chlordane	--	2E-10	--	--	2E-10					
			beta-BHC	--	5E-11	--	--	5E-11					
			delta-BHC	--	--	--	--	--					
			Dieldrin	--	2E-09	--	--	2E-09					
			gamma-BHC (Lindane)	--	4E-11	--	--	4E-11					
			gamma-Chlordane	--	1E-10	--	--	1E-10					
			Heptachlor	--	1E-10	--	--	1E-10					
			Heptachlor Epoxide	--	2E-10	--	--	2E-10					
			Arsenic	--	2E-08	--	--	2E-08					
			Chemical Total	--	3E-08	--	--	3E-08					
		Exposure Point Total						3E-08					
	Exposure Medium Total							3E-08					
Medium Total								2E-04					

TABLE S.8.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Lifelong (Child and Adult)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Externa (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	1,2,4-Trichlorobenzene	--	--	--	--	--					
			1,2-Dibromo-3-Chloropropane	3E-06	--	3E-07	--	3E-06					
			1,4-Dichlorobenzene	2E-07	--	7E-08	--	3E-07					
			Benzene	1E-06	--	1E-07	--	1E-06					
			Chlorobenzene	--	--	--	--	--					
			Chloroform	--	--	--	--	--					
			cis-1,2-Dichloroethene	--	--	--	--	--					
			Ethylbenzene	--	--	--	--	--					
			Isopropylbenzene	--	--	--	--	--					
			Tetrachloroethene	6E-06	--	2E-06	--	8E-06					
			Total Xylenes	--	--	--	--	--					
			trans-1,2-Dichloroethene	--	--	--	--	--					
			Trichloroethene	2E-07	--	2E-08	--	2E-07					
			Vinyl Chloride	2E-05	--	4E-07	--	2E-05					
			1,1'- Biphenyl	--	--	--	--	--					
			2,4,5-Trichlorophenol	--	--	--	--	--					
			2,4-Dichlorophenol	--	--	--	--	--					
			2-Methylnaphthalene	--	--	--	--	--					
			Naphthalene	--	--	--	--	--					
			Pentachlorophenol	2E-06	--	2E-05	--	2E-05					
			4,4'-DDD	6E-06	--	2E-05	--	3E-05					
			4,4'-DDE	8E-08	--	2E-07	--	3E-07					
			4,4'-DDT	9E-08	--	5E-07	--	6E-07					
			Aldrin	1E-04	--	5E-06	--	1E-04					
			alpha-BHC	6E-06	--	2E-05	--	8E-05					
			alpha-Chlordane	7E-07	--	8E-07	--	1E-06					
			beta-BHC	9E-06	--	4E-06	--	1E-05					
			delta-BHC	--	--	--	--	--					

TABLE 9.8.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Lifelong (Child and Adult)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	Dieldrin	7E-06	--	3E-06	--	1E-05					
			Endrin Ketone	--	--	--	--	--					
			gamma-BHC (Lindane)	2E-05	--	3E-06	--	2E-05					
			gamma-Chlordane	3E-07	--	3E-07	--	6E-07					
			Heptachlor	9E-07	--	2E-07	--	1E-06					
			Heptachlor Epoxide	4E-06	--	1E-06	--	5E-06					
			Arsenic	1E-02	--	2E-05	--	1E-02					
			Chemical Total	1E-02	--	1E-04	--	1E-02					
		Exposure Point Total						1E-02					
	Exposure Medium Total							1E-02					
	Groundwater	PSC 47	1,2,4-Trichlorobenzene	--	--	--	--	--					
			1,2-Dibromo-3-Chloropropane	--	3E-06	--	--	3E-06					
			1,4-Dichlorobenzene	--	2E-07	--	--	2E-07					
			Benzene	--	1E-06	--	--	1E-06					
			Chlorobenzene	--	--	--	--	--					
			Chloroform	--	--	--	--	--					
			cis-1,2-Dichloroethene	--	--	--	--	--					
			Ethylbenzene	--	--	--	--	--					
			Isopropylbenzene	--	--	--	--	--					
			Tetrachloroethene	--	6E-06	--	--	6E-06					
			Total Xylenes	--	--	--	--	--					
			trans-1,2-Dichloroethene	--	--	--	--	--					
			Trichloroethene	--	2E-07	--	--	2E-07					
			Vinyl Chloride	--	2E-05	--	--	2E-05					
			1,1'- Biphenyl	--	--	--	--	--					
			2,4,5-Trichlorophenol	--	--	--	--	--					
			2,4-Dichlorophenol	--	--	--	--	--					
			2-Methylnaphthalene	--	--	--	--	--					
			Naphthalene	--	--	--	--	--					
			Pentachlorophenol	--	--	--	--	--					
			4,4'-DDD	--	--	--	--	--					
			4,4'-DDE	--	--	--	--	--					
			4,4'-DDT	--	--	--	--	--					
			Aldrin	--	--	--	--	--					
			alpha-BHC	--	--	--	--	--					

TABLE 9.8.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURES
NAVAL AIR STATION JACKSONVILLE, JACKSONVILLE, FLORIDA

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Lifelong (Child and Adult)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	PSC 47	alpha-Chlordane	--	--	--	--	--					
			beta-BHC	--	--	--	--	--					
			delta-BHC	--	--	--	--	--					
			Dieldrin	--	--	--	--	--					
			Endrin Ketone	--	--	--	--	--					
			gamma-BHC (Lindane)	--	--	--	--	--					
			gamma-Chlordane	--	--	--	--	--					
			Heptachlor	--	--	--	--	--					
			Heptachlor Epoxide	--	--	--	--	--					
			Arsenic	--	--	--	--	--					
			Chemical Total	--	3E-05	--	--	3E-05					
		Exposure Point Total						3E-05					
	Exposure Medium Total							3E-05					
Medium Total								1E-02					
Receptor Total							Receptor Risk Total	1E-02					

Note:
Inhalation exposures are assumed to be equal to the exposures from ingestion of groundwater.

APPENDIX K.3

Vapor Intrusion Modeling Outputs

DATA ENTRY SHEET

GW-SCREEN Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION (enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
309002	3.72E-01	Aldrin

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.32E-02	4.86E-06	1.70E-04	25	15,000	603.01	839.37	2.45E+06	1.70E-02	4.9E-03	0.0E+00

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation L_T (cm)	Vadcse zone soil air-filled porosity, θ_a^v (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	21,115	1.18E-04	4.87E-03	1.79E-04	3.71E-04	2.14E-04	2.51E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	1.81E+00	0.10	1.47E+00	3.71E-04	4.00E+02	7.71E+42	6.82E-05	1.24E-04	4.9E-03	NA

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.70E+01	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
2.5E-07	NA

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET

GW-SCREEN Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION (enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
319846	5.14E-01	alpha-HCH (alpha-BHC)

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.42E-02	7.34E-06	1.06E-05	25	15,000	596.55	839.36	1.23E+03	2.00E+00	1.8E-03	0.0E+00

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	20,883	7.39E-06	3.05E-04	1.79E-04	1.09E-03	5.15E-03	2.25E-03

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	1.57E-01	0.10	1.47E+00	1.09E-03	4.00E+02	3.64E+14	8.40E-05	1.32E-05	1.8E-03	NA

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	2.00E+03	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
9.7E-09	NA

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET

GW-SCREEN Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION (enter "X" in 'YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
71432	1.27E+00	Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
8.80E-02	9.80E-06	5.54E-03	25	7,342	353.24	562.16	5.89E+01	1.79E+03	7.8E-06	3.0E-02

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7.998	4.83E-03	1.99E-01	1.79E-04	2.27E-03	1.57E-05	2.39E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	2.53E+02	0.10	1.47E+00	2.27E-03	4.00E+02	9.92E+06	2.27E-05	5.73E-03	7.8E-06	3.0E-02

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.79E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.8E-08	1.8E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET

GW-SCREEN Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION (enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
75252	1.41E-01	Bromoform

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.49E-02	1.03E-05	5.88E-04	25	9,479	422.35	696.00	8.71E+01	3.10E+03	1.1E-06	0.0E+00

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	10,764	4.89E-04	2.02E-02	1.79E-04	4.00E-04	1.10E-04	1.47E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^I)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	2.84E+00	0.10	1.47E+00	4.00E-04	4.00E+02	5.70E+39	5.93E-05	1.69E-04	1.1E-06	NA

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	3.10E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.6E-11	NA

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET

GW-SCREEN
Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
156592	7.98E+01	cis-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.36E-02	1.13E-05	4.07E-03	25	7,192	333.65	544.00	3.55E+01	3.50E+03	0.0E+00	0.0E+00

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation L_T (cm)	Vadose zone soil air-filled porosity, θ_a^v (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,612	3.57E-03	1.47E-01	1.79E-04	1.90E-03	2.07E-05	3.16E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	1.18E+04	0.10	1.47E+00	1.90E-03	4.00E+02	2.29E+08	2.76E-05	3.24E-01	NA	NA

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	3.50E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	NA

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET

GW-SCREEN Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION (enter "X" in 'YES' box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
58899	7.32E-01	gamma-HCH (Lindane)

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)		ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC	OR		SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.42E-02	7.34E-06	1.40E-05	25	15,000	596.55	839.36	1.07E+03	7.30E+00	0.0E+00	0.0E+00

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^v (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	20,883	9.76E-06	4.03E-04	1.79E-04	9.16E-04	3.90E-03	1.83E-03

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	2.95E-01	0.10	1.47E+00	9.16E-04	4.00E+02	2.30E+17	8.34E-05	2.46E-05	NA	NA

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	7.30E+03	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	NA

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET

GW-SCREEN Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION (enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
98828	8.52E-01	Isopropylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadcse zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
6.50E-02	7.10E-06	1.16E+00	25	10,335	425.56	631.10	4.89E+02	6.13E+01	0.0E+00	4.0E-01

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	12,475	9.34E-01	3.86E+01	1.79E-04	1.68E-03	3.83E-06	5.86E-06

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC mg/m^3
46	15	3.29E+04	0.10	1.47E+00	1.68E-03	4.00E+02	3.01E+09	6.92E-06	2.27E-01	NA	4.0E-01

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	6.13E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	5.4E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET

GW-SCREEN
Version 3.0: 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in 'YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
91203	8.94E+00	Naphthalene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
5.90E-02	7.50E-06	4.82E-04	25	10,373	491.14	748.40	2.00E+03	3.10E+01	0.0E+00	3.0E-03

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^v (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	12,789	3.87E-04	1.60E-02	1.79E-04	1.54E-03	1.04E-04	1.54E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	1.43E+02	0.10	1.47E+00	1.54E-03	4.00E+02	2.22E+10	6.01E-05	8.59E-03	NA	3.0E-03

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	3.10E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.7E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET

GW-SCREEN Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION (enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
79016	9.93E-01	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	1.66E+02	1.47E+03	2.0E-06	6.0E-01

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,407	8.89E-03	3.67E-01	1.79E-04	2.04E-03	9.91E-06	1.52E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	3.65E+02	0.10	1.47E+00	2.04E-03	4.00E+02	6.25E+07	1.59E-05	5.79E-03	2.0E-06	6.0E-01

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.8E-09	9.3E-06

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET

GW-SCREEN Version 3.0; 04/03

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION (enter "X" in "YES" box and initial groundwater conc. below)

YES X

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
75014	6.21E-01	Vinyl chloride (chloroethene)

MORE

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	61	SC	22	

MORE

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
SC			SC	1.63	0.385	0.197

MORE

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.06E-01	1.23E-05	2.69E-02	25	5,250	259.25	432.00	1.86E+01	8.80E+03	8.8E-06	1.0E-01

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
46	0.188	0.299	1.78E-09	0.837	1.49E-09	30.00	0.385	0.030	0.355	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_v (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	4,864	2.48E-02	1.02E+00	1.79E-04	2.74E-03	8.75E-06	1.34E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
46	15	6.35E+02	0.10	1.47E+00	2.74E-03	4.00E+02	6.48E+05	1.43E-05	9.11E-03	8.8E-06	1.0E-01

END

RESULTS SHEET

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	8.80E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
3.3E-08	8.7E-05

MESSAGE SUMMARY BELOW:

END

APPENDIX L

RISK ASSESSMENT METHODS

APPENDIX M
FOOD CHAIN MODELING

Food chain modeling was conducted as part of COPC refinement. The objective of the food chain modeling was to investigate potential risks to representative receptors from screening-level COPCs that are known to bioaccumulate or biomagnify (USEPA, 2000a). Toxicity reference values (TRVs), which are contaminant doses associated with adverse effects on growth, survival, and reproduction, were obtained for comparison to doses that the receptors may receive in the environment. TRVs were preferentially selected that represent a threshold for sublethal effects, such as impairment of reproduction or growth. Since toxicity data for the specific receptors chosen herein were not available, toxicity data from laboratory species were extrapolated to receptor species. The TRVs were obtained from wildlife toxicity data that were summarized by Sample et al. (1996). If only a no-observed-adverse-effect level (NOAEL) was available, the value was multiplied by 10 to derive an estimated lowest-observed-adverse-effect level (LOAEL). If only a LOAEL was available, the value was divided by 10 to derive an estimated NOAEL. TRVs used in this ecological risk assessment and their sources are presented in Table M-1.

Food chain modeling was limited to COPCs that are known to bioaccumulate or biomagnify (USEPA, 2000a). USEPA Region IV considers chemicals in this category to consist of those so designated in USEPA's (2000b) *Appendix to Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment, Status and Needs, Chemical-Specific Summary Tables*, with the exception of PAHs. USEPA Region IV does not consider PAHs to bioaccumulate unless they are present in percent levels in soil. COPCs at PSC 47 that are known to bioaccumulate or biomagnify consist of pesticides. The remaining COPCs are not known to bioaccumulate or biomagnify and were not included in the food chain model.

Risk via the food chain was evaluated using two scenarios. The first scenario used maximum detected pesticide concentrations and conservative assumptions for body weight, food consumption, and soil ingestion. The second scenario used average pesticide concentrations, and average values for body weight, food consumption, and soil ingestion.

REPRESENTATIVE RECEPTORS

Representative ecological receptors used in the food chain model for PSC 47 consisted of the short-tailed shrew (*Blarina brevicauda*) and American robin (*Turdus migratorius*), both of which are found at NAS Jacksonville. Information regarding these representative receptors is presented below and in Table M-2, and is taken from a literature review performed by USEPA (1993). Table M-3 presents the exposure parameters that were used in the food chain modeling, and was derived from Table M-2.

Short-tailed shrew (*Blarina brevicauda*)

Shrews inhabit a wide variety of habitats and are common in areas with abundant vegetative cover. They need cool, moist habitats because of their high metabolic and water-loss rates. The short-tailed shrew is primarily carnivorous, eating insects such as earthworms, slugs, and snails.

The adult body weight for the short-tailed shrew in various habitats ranged from 0.015 to 0.01921 kg with an average of 0.0161 kg. Wet-weight food ingestion rates were 0.49 and 0.62 g/g-day. The food ingestion rates in kg/day were calculated as shown in Table M-2. The food ingestion rates were then multiplied by 0.16, because earthworms consist of approximately 16 percent solids and 84 percent moisture (Sample et al., 1997), to convert the ingestion rate from a wet-weight value to a dry-weight value. The incidental soil ingestion rate was calculated by multiplying the ingestion rate by the percentage of soil that is incidentally ingested (assumed 3 percent for conservative food chain model and 1.5 percent for the average food chain model) from USEPA (2003). The 90th percentile value is 3 percent and 1.5 percent is the 50th percentile value from USEPA (2003).

American Robin (*Turdus migratorius*)

Habitat for the American robins consists of parks, lawns, moist forests, swamps, open woodlands, and orchards. Robins forage on the ground in open areas, along habitat edges, or the edges of streams. They also may forage above ground in shrubs and within the lower branches of trees. In the months preceding and during the breeding season, robins feed primarily on invertebrates.

The adult body weight for the American robin in New York woodlands and forests and in Pennsylvania ranged from 0.0773 to 0.0862 kg with an average of 0.0804 kg. The only listed food ingestion rates were for robins in Kansas (1.52 g/g-day) and California (0.89 g/g-day), with an average of 1.205 g/g-day. Studies calculating ingestion rates for the robin included in the USEPA (1993) review are based on a diet comprised of berries. Based on these studies, the food ingestion rates in kg/day were calculated as shown in the attached table. The food ingestion rates were then multiplied by 0.23, which is the portion of solids in fruit (Sample et al., 1997) to convert the ingestion rate from a wet-weight value to a dry-weight value. However, because the robin is being used in the ecological risk assessment to represent insectivorous/vermivorous birds, it is assumed that the 100 percent of the robin's diet is invertebrates, and the ingestion rate for the robin was calculated using field metabolism scaling as presented in Table M-2 following (Nagy et al., 1999). The Nagy-derived values were used in the food chain model for PSC 47.

The incidental soil ingestion rate was calculated by multiplying the ingestion rate by the percentage of soil that is incidentally ingested (assumed 3 percent for the conservative food chain model and 1.5 percent for the average food chain model) from USEPA (2003). The 3 percent and 1.5 percent values are based on

the shrew since it is assumed that both the shrew and robin are consuming 100 percent soil invertebrates, and no incidental soil ingestion rate was available for the robin.

Exposure Estimate and Risk Calculation

The following equation presents the food chain model that was used for the shrew and robin:

$$CDI = \frac{[(Cf * If) + (Cs * Is)]}{BW}$$

where:

CDI	=	Chronic daily intake (mg/kg-day)
Cf	=	Contaminant concentration in food (earthworm) (mg/kg)
If	=	Ingestion rate of food (kg/day)
Cs	=	Contaminant concentration in surface soil (mg/kg)
Is	=	Rate of incidental surface soil ingestion (kg/day)
BW	=	Body weight (kg)

The chemical concentrations in earthworms were calculated using the following equation:

$$Ce = BAF_e * Cs$$

Where:

Ce = Chemical concentration in earthworm

BAF_e = Soil-to-invertebrate bioaccumulation factor (unitless)

The bioaccumulation factors are presented in Table M-4.

The risk characterization is the final phase of a risk assessment that compares the exposure to the ecological effects. It is at this phase that the likelihood of adverse effects occurring as a result of exposure to a stressor. A Hazard Quotient (HQ) approach was used to characterize the risk to terrestrial receptors. This approach characterizes the potential effects by comparing exposure concentration with the effects data. The HQ for the terrestrial wildlife model is calculated as follows:

$$HQ = \frac{CDI}{TRV}$$

Where:

HQ	=	Hazard Quotient, (unitless)
CDI	=	Chronic daily intake dose, (mg/kg-day)
TRV	=	Toxicity Reference Value, (mg/kg-day)

An HQ of less than 1.0 is considered to indicate that potential risks to the representative ecological receptors are low. An HQ of greater than 1.0 at this stage in the risk assessment process indicates that potential risks to ecological receptors may occur.

Calculation spreadsheets for the representative receptors are presented as Tables M-5 through M-8 and an example calculation is presented following Table M-8.

REFERENCES for APPENDIX M

Beyer, W.N. and D.C. Gish. 1980. Persistence in Earthworms and Potential Hazards to Birds of soil Applied DDT, Dieldrin, and Heptachlor. J. Appl. Ecol. 17:295-307. Cited in Beyer, W.N. 1990. Evaluating Soil Contamination. USFWS Biological Report 90(2).

Beyer, W.N. and A.J. Krynitsky, 1989. Long-Term Persistence of Dieldrin, DDT, and Heptachlor Epoxide in Earthworms, Ambio. 18:271-273. Cited in Beyer, W.N. 1990. Evaluating Soil Contamination. USFWS Biological Report 90(2).

Davis, B.N.K. 1971. Laboratory Studies on the Uptake of Dieldrin and DDT by Earthworms. Soil Biol. Biochem. 3:221-233. Cited in Beyer, W.N. 1990. Evaluating Soil Contamination. USFWS Biological Report 90(2).

Gish, C.D., 1970. Organochlorine Insecticide Residues in Soils and Soil Invertebrates from Agricultural Lands. Pestic. Monit. J. 3:241-252. Cited in Beyer, W.N. 1990. Evaluating Soil Contamination. USFWS Biological Report 90(2).

Jeffries, D.J., and B.N.K. Davis. 1968. Dynamics of Dieldrin in Soil, Earthworms, and Song Thrushes. J. Wildlife. Manage. 32:441-456. Cited in Beyer, W.N. 1990. Evaluating Soil Contamination. USFWS Biological Report 90(2).

Nagy, K.A., I.A. Girard, and T.K. Brown. 1999. Energetics of free-ranging mammals, reptiles, and birds. Annual Reviews of Nutrition, 19:247-277.

Sample, B.E., M.S. Alpin, R.A. Efroymson, G. W. Suter II, and C.J.E. Welsh. 1997. Methods and Tools for Estimation of the Exposure of Terrestrial Wildlife to Contaminants. ORNL/TM-13391. Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

Sample, B.E., D.M. Opresko, and G.W. Suter II, 1996. Toxicological Benchmarks for Wildlife, 1996 Revision. Risk Assessment Program, Health Sciences Research Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

USEPA (U.S. Environmental Protection Agency). 2003. Guidance for Developing Ecological Soil Screening Levels. OSWER Directive 92857-55. Office of Solid Waste and Emergency Response, Washington, D.C. August.

USEPA (U.S. Environmental Protection Agency), 2000a. Amended Guidance on Ecological Risk Assessment at Military Bases: Process Considerations, Timing of Activities, and Inclusion of Stakeholders. Memorandum from Ted. W. Simon, Region 4 U.S. EPA Office of Technical Services, Atlanta, Georgia, June 23.

USEPA, 2000b. Appendix to Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment, Status and Needs, Chemical-Specific Summary Tables. EPA-823-R-00-002, February.

USEPA, 1993. Wildlife Exposure Factors Handbook: Volumes I and II. EPA/600/R-93/187. EPA Office of Research and Development, Washington, D.C.

Venter, J.M., and A.J. Reinecke. 1985. Dieldrin and Growth and Development of the Earthworm Eisenia Fetida (Oligochaeta). Bull. Environ, Contam. Toxicol. 35:652-659. Cited in Beyer, W.N. 1990. Evaluating Soil Contamination. USFWS Biological Report 90(2).

Wheatley, G.A., and J.A. Hardman. 1968. Organochlorine Insecticide Residues in Earthworms from Arable Soils. J. Sci. Food. Agric. 19:219-225. Cited in Beyer, W.N. 1990. Evaluating Soil Contamination. USFWS Biological Report 90(2).

EXAMPLE CALCULATION OF HAZARD QUOTIENT FOR THE AMERICAN ROBIN USING THE MAXIMUM SURFACE SOIL CONCENTRATION OF ENDRIN CONSERVATIVE SCENARIO

The predicted dose for representative receptors = $\frac{[(Cf * If) + (Cs * Is)]}{BW}$

Cf = Contaminant concentration (mg/kg) in food (soil invertebrates)
If = Ingestion rate of food (kg/day)
Cs = Contaminant concentration in surface soil (mg/kg)
Is = Incidental surface soil ingestion (kg/day)
BW = Body weight (kg)

Concentrations of pesticide compounds in food items of the robin (Cf) were derived from soil data by multiplying the soil concentration by a soil-to-invertebrate BAF.

BAF for endrin = 3.6 (Table M-4)
Cs = 1.21 mg/kg (Table 8-1)
Using these values, Cf = 1.21 mg/kg × 3.6 = 4.356 mg/kg.

If = 0.01247 kg/day (Conservative scenario, Table M-3)
Is = 0.0003741 kg/day (Conservative scenario, Table M-3)
BW = 0.0773 (Conservative scenario, Table M-3)
Using the above values,
dose = [(4.356 mg/kg × 0.01247 kg/day) + (1.21 mg/kg × 0.0003741 kg/day)] ÷ 0.0773 kg
= (0.054319 mg/day + 0.0004527 mg/day) ÷ 0.0773 kg = 0.70856 mg/kg/day

The avian NOAEL for endrin is 0.01 mg/kg/day (Table M-1).
Thus, the NOAEL-based HQ = 0.70856 mg/kg/day ÷ 0.01 mg/kg/day = 70.856 ≈ 70.9 (as shown in Table 8-2).

TABLE M-1

TOXICITY REFERENCE VALUES (TRVs)
PSC 47 - PESTICIDE AREA
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Chemical	Concentration (mg/kg-day)	Endpoint	Effect	Study Duration	Species	Primary Reference	Source of Reference
Aldrin	0.2	NOAEL	reproductive	3 generations (>1 year)	rat	Treon and Cleveland, 1955	Sample et.al., 1996
Aldrin	1	LOAEL	reproductive	3 generations (>1 year)	rat	Treon and Cleveland, 1955	Sample et.al., 1996
BHC (mixed isomers)[1]	0.14	LOAEL	reproductive	331 days	mink	Bleavins et al., 1984	Sample et.al., 1996
BHC (mixed isomers)[1,2]	0.56	NOAEL	reproductive	90 days	Japanese quail	Vos et al., 1971	Sample et.al., 1996
BHC (mixed isomers)[1,2]	2.25	LOAEL	reproductive	90 days	Japanese quail	Vos et al., 1971	Sample et.al., 1996
beta-BHC	4	NOAEL	systemic	13 weeks	rat	Van Velsen et al., 1986	Sample et.al., 1996
beta-BHC	20	LOAEL	systemic	13 weeks	rat	Van Velsen et al., 1986	Sample et.al., 1996
Chlordane[3]	2.14	NOAEL	mortality	84 days	red-winged blackbird	Stickel et al., 1983	Sample et.al., 1996
Chlordane[3]	10.7	LOAEL	mortality	84 days	red-winged blackbird	Stickel et al., 1983	Sample et.al., 1996
Chlordane[3]	4.58	NOAEL	reproduction	6 generations (>1 year)	mouse	WHO, 1984	Sample et.al., 1996
Chlordane[3]	9.16	LOAEL	reproduction	6 generations (>1 year)	mouse	WHO, 1984	Sample et.al., 1996
4,4'-DDT[4]	0.8	NOAEL	reproductive	2 years	rat	Fitzhugh, 1948	Sample et.al., 1996
4,4'-DDT[4]	4	LOAEL	reproductive	2 years	rat	Fitzhugh, 1948	Sample et.al., 1996
4,4'-DDT[4]	0.028	LOAEL	reproduction	5 years	brown pelican	Anderson et al., 1975	Sample et.al., 1996
Dieldrin	0.077	NOAEL	reproduction	2 years	barn owl	Mendenhall et al., 1983	Sample et.al., 1996
Dieldrin	0.2	LOAEL	reproduction	3 generations (>1 year)	rat	Treon and Cleveland, 1995	Sample et.al., 1996
Endrin[5]	0.92	LOAEL	reproduction	120 days	mouse	Good and Ware, 1969	Sample et.al., 1996
Endrin[5]	0.1	LOAEL	reproduction	>83 days	screech owl	Fleming et al., 1982	Sample et.al., 1996
Endrin[5]	0.01	NOAEL	reproduction	>83 days	screech owl	Fleming et al., 1982	Sample et.al., 1996
Heptachlor[6]	1	LOAEL	reproduction	181 days	mink	Crum et al., 1993	Sample et.al., 1996

1 BHC (mixed isomers) TRVs used for delta-BHC.
2 BHC (mixed isomers) TRVs from quail study used as avian TRVs for beta-BHC, since avian TRVs were not available for beta-BHC.
3 Chlordane TRVs used for alpha- and gamma-chlordane.
4 4,4'-DDT TRVs used for 4,4'-DDE and 4,4'-DDD.
5 Endrin TRVs used for endrin aldehyde and endrin ketone.
6 Heptachlor TRVs used for heptachlor epoxide.

Note: If only a NOAEL was available, the value was multiplied by 10 to derive an estimated LOAEL. If only a LOAEL was available, the value was divided by 10 to derive an estimated NOAEL.

TABLE M-2
DERIVATION OF EXPOSURE FACTORS FOR FOOD CHAIN MODEL
PSC 47 PESTICIDE AREA
NAVAL AAIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Data from EPA (1993) unless otherwise noted				Derivation of Factors for Modeling		
Species/Factor	**Age/Sex/ Cond./Season**	**Value**	**Study Average**	**Calculation of Values**		**Notes**
American Robin						
Body Weight (g)	A B	77.3	77.3	Minimum Value	0.0773 kg	
				Maximum Value	0.0862 kg	
	A M nonbreeding	86.2		Overall Average	0.0804 kg	
	A F nonbreeding	83.6	84.9			
	A M breeding	77.4				
	A F breeding	80.6	79			
Food Ingestion Rate (g/g-day)	B B free-living	0.89		Food ingestion rates were calculated from Nagy et al., (1999) for insectivores as follows:		
				Conservative scenario:	0.01247 kg/day	Used maximum body weight in below equation
	- B free-living	1.52				
				Average scenario:	0.01188 kg/day	Used average body weight in below equation
	Overall Average		1.21			
The above data were from robins that were consuming only fruit. Since the robin is being used to represent birds at PSC 47 that consume soil invertebrates rather than fruit, food ingestion rates were based on metabolic scaling using Nagy et al (1999) equation for avian insectivores.				Food ingestion rates (dry weight) were calculated from Nagy et al., (1999) for insectivores as follows: $FI = (9.7 \times BW(g)^{0.705})/18kJ/g/1000$		
Soil Ingestion: Data not available for this species.				The soil ingestion rate for the robin will be assumed to be the same as the shrew (3% of diet).		
Short-Tailed Shrew						
Body Weight (g)	A B	15	15	Minimum Value	0.0150 kg	
				Maximum Value	0.01921 kg	
	M summer	19.21	17.27	Overall Average	0.01613 kg	
	F summer	17.4				
	M fall	16.87				
	M fall	15.58				
Food Ingestion Rate (g/g-day)	A B	0.49		Conservative scenario:	0.0016 kg/day	Maximum ingestion rate x Average Body weight x 0.16[(1)]
	A B	0.62		Average scenario:	0.00143 kg/day	Average ingestion rate x Average Body weight x 0.16[(1)]
	Overall Average		0.555			[(1)] 0.16 = 16 percent solids in earthworms used to convert to a dry weight ingestion rate
Soil Ingestion Rate = 3% of diet (90th percentile of data from USEPA [2003]).						

Notes:
A = Adult
F = Female, M = Male, B = Both
BW = Body Weight

TABLE M-3

EXPOSURE PARAMETERS FOR THE TERRESTRIAL WILDLIFE FOOD CHAIN MODEL
PSC 47 PESTICIDE AREA
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

Species	Exposure Inputs	Conservative Scenario		Average Scenario		Source
		Values	Units	Values	Units	
Short-Tailed Shrew	Body Weight = BW	0.015	kg	0.01613	kg	USEPA, 1993
	Food Ingestion Rate = If	0.0016	kg/day	0.00143	kg/day	USEPA, 1993
	Soil Ingestion Rate = Is	0.000048	kg/day	0.0000429	kg/day	3% of diet (USEPA, 2003)
American Robin	Body Weight = BW	0.0773	kg	0.0804	kg	USEPA, 1993
	Food Ingestion Rate = If	0.01247	kg/day	0.01188	kg/day	USEPA, 1993
	Soil Ingestion Rate = Is	0.0003741	kg/day	0.0003564	kg/day	See Note 1

Note 1: Soil ingestion data not available for robin; shrew value used.

TABLE M-4

SOIL-TO-EARTHWORM BIOACUMULATION FACTORS
PSC 47 PESTICIDE AREA
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

Parameter	Study Values: Worm Concentration Dry Weight	Study Values: Worm Concentration Wet Weight	Study Values: Soil Conc. (dry weight)	Study Values: Dry Weight BAF	Study Values: Wet Weight BAF	Calculated Values: Dry Weight[1] BAF	Reference	Comments
DDT[2]	NA	NA	NA	5	NA	5	1	soil type unknown (11-year field study)
	0.5	NA	1	0.5	NA	0.5	2	compost (lab)
	6.9	NA	4	1.7	NA	1.7	2	compost (lab)
	37	NA	16	2.3	NA	2.3	2	compost (lab)
	159	NA	64	2.5	NA	2.5	2	compost (lab)
	NA	NA	NA	9	NA	9.0	3	from data collected in 67 agricultural fields
	NA	NA	NA	NA	1.2-4.9	7.5-31	4	agricultural soil (0.94 ppm DDT in soil)
Average dry weight BAF from field studies[3]						***13.0***[4]		
Dieldrin	NA	NA	NA	8	NA	8	1	soil type unknown (11-year field study)
	NA	NA	NA	2.4	NA	2.4	2	compost (lab) (17 ppm dieldrin in compost)
	NA	NA	NA	5.6	NA	5.6	2	compost (lab) (17 ppm dieldrin in compost)
	NA	18.4	25	NA	0.74	4.6	5	compost (20-day lab study)
	NA	24.4	25	NA	0.98	6.1	5	compost (20-day lab study)
	NA	4.6	10	NA	0.46	2.9	6	90-day lab study
	NA	9.7	30	NA	0.32	2.0	6	90-day lab study
	NA	12.4	50	NA	0.25	1.6	6	90-day lab study
	NA	13.9	100	NA	0.14	0.87	6	90-day lab study
	NA	NA	NA	NA	0.97-4	6.16-25	4	agricultural soil (1.36 ppm total aldrin and dieldrin in soil)
Average dry weight BAF from field studies[3]						***6.64***[4]		
gamma-BHC[2]	NA	NA	NA	5	1.5-4.2	5[4]	4	agricultural soil (0.004 ppm gamma-BHC in soil)
Heptachlor	NA	NA	NA	10	NA	10[4]	4	soil type unknown (11-year field study)
Aldrin	NA	NA	NA	3.3	NA	3.3[4]	3	from data collected in 7 agricultural fields
Chlordane[2]	NA	NA	NA	5.0	NA	5.0[4]	3	from data collected in 7 agricultural fields
Endrin[2]	NA	NA	NA	3.6	NA	3.6[4]	3	from data collected in 26 agricultural fields
Heptachlor epoxide	NA	NA	NA	3.0	NA	3.0[4]	3	from data collected in 9 agricultural fields

Notes:

BAF - bioaccumulation factor = worm concentration/soil concentration

NA - Not applicable or not available

1 - The calculated dry weight BAF was either obtained directly from the study or was calculated by dividing the wet weight BAF by 0.16. Earthworms are assumed to consist of 16 percent solids (Sample et al., 1997).

2 - In the food chain modeling, DDT BAF was used for DDD and DDE, gamma-BHC BAF was used for beta- and delta-BHC, chlordane BAF was used for alpha- and gamma-chlordane, and endrin BAF was used for endrin aldehyde and endrin ketone.

3 - The compost studies were not used in calculating the average BAF because properties of the compost (organic carbon, etc) will be considerably different than soils at PSC 47. Data from compost studies are presented for informational purposes only.

4 - This value was used as the soil-to-invertebrate BAF in the ecological risk assessment for PSC 47.

References

1 - Beyer and Gish, 1980 and Beyer and Krynitsky, 1989

2 - Davis, 1971

3 - Gish, 1970

4 - Wheatly and Hardman, 1968

5 - Jeffries and Davis, 1968

6 - Venter and Reinecke, 1985

ROBIN

Dose=(If*Ce+Is*Cs)/BW

Body Weight = (BW) 0.0773 kg
Food Ingestion Rate = (If) 0.01247 kg/day
Soil Ingestion Rate = (Is) 0.0003741 kg/day
Cs = Contaminant concentration in soil
Ce = Contaminant conc. in earthworm (=soil conc.* BF)
BF = Soil to invertebrate biotransfer factor

TABLE M-5
PSC 47
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION
AMERICAN ROBIN - CONSERVATIVE INPUTS
NAS JACKSONVILLE, JACKSONVILLE, FLORIDA

Parameter	Max Soil Concentration mg/kg	Biotransfer Factor (soil to inv.)	Earthworm Concentration (mg/kg)	Dose (mg/kg/day)	NOAEL (mg/kg/day)	LOAEL (mg/kg/day)	NOAEL HQ	LOAEL HQ
Pesticides								
4,4'-DDD	2.5000	13.00	32.5000	5.2550	0.0028	0.0280	1876.78	187.68
4,4'-DDE	13.0000	13.00	169.0000	27.3259	0.0028	0.0280	9759.26	975.93
4,4'-DDT	180.0000	13.00	2340.0000	378.3588	0.0028	0.0280	135128.16	13512.82
ALDRIN	0.0139	3.30	0.0459	0.0075	NV	NV	#VALUE!	#VALUE!
ALPHA-CHLORDANE	14.0000	5.00	70.0000	11.3601	2.1400	10.7000	5.31	1.06
BETA-BHC	0.0127	5.00	0.0635	0.0103	0.5600	2.2500	0.02	0.00
DELTA-BHC	0.0168	5.00	0.0840	0.0136	0.5600	2.2500	0.02	0.01
DIELDRIN	3.4000	6.64	22.5760	3.6584	0.0770	0.7700	47.51	4.75
ENDRIN	1.2100	3.60	4.3560	0.7086	0.0100	0.1000	70.86	7.09
ENDRIN ALDEHYDE	0.0604	3.60	0.2174	0.0354	0.0100	0.1000	3.54	0.35
ENDRIN KETONE	0.1279	3.60	0.4604	0.0749	0.0100	0.1000	7.49	0.75
GAMMA-CHLORDANE	9.7000	5.00	48.5000	7.8709	2.1400	10.7000	3.68	0.74
HEPTACHLOR	0.4300	10.00	4.3000	0.6958	NV	NV	#VALUE!	#VALUE!
HEPTACHLOR EPOXIDE	0.0960	3.00	0.2880	0.0469	NV	NV	#VALUE!	#VALUE!

ROBIN

Dose=(If*Ce+Is*Cs)/BW

Body Weight = (BW)	0.0804 kg
Food Ingestion Rate = (If)	0.01188 kg/day
Soil Ingestion Rate = (Is)	0.0003564 kg/day

Cs = Contaminant concentration in soil

Ce = Contaminant conc. in earthworm (=soil conc.* BF)

BF = Soil to invertebrate biotransfer factor

TABLE M-6
PSC 47
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION
AMERICAN ROBIN - AVERAGE INPUTS
NAS JACKSONVILLE, JACKSONVILLE, FLORIDA

Parameter	Avg Soil Concentration mg/kg	Biotransfer Factor (soil to inv.)	Earthworm Concentration (mg/kg)	Dose (mg/kg/day)	NOAEL (mg/kg/day)	LOAEL (mg/kg/day)	NOAEL HQn	LOAEL HQl
Pesticides								
4,4'-DDD	0.395	13.00	5.130	7.60E-01	0.0028	0.0280	271.3	27.1
4,4'-DDE	1.174	13.00	15.267	2.26E+00	0.0028	0.0280	807.5	80.8
4,4'-DDT	7.188	13.00	93.449	1.38E+01	0.0028	0.0280	4942.9	494.3
ALDRIN	0.137	3.30	0.451	6.72E-02	NV	NV	#VALUE!	#VALUE!
ALPHA-CHLORDANE	0.598	5.00	2.992	4.45E-01	2.1400	10.7000	0.2	0.042
BETA-BHC	0.136	5.00	0.682	1.01E-01	0.5600	2.2500	0.2	0.045
DELTA-BHC	0.137	5.00	0.683	1.02E-01	0.5600	2.2500	0.2	0.045
DIELDRIN	0.229	6.64	1.520	2.26E-01	0.0770	0.7700	2.9	0.3
ENDRIN	0.300	3.60	1.081	1.61E-01	0.0100	0.1000	16.1	1.6
ENDRIN ALDEHYDE	0.264	3.60	0.950	1.42E-01	0.0100	0.1000	14.2	1.4
ENDRIN KETONE	0.262	3.60	0.942	1.40E-01	0.0100	0.1000	14.0	1.4
GAMMA-CHLORDANE	0.508	5.00	2.542	3.78E-01	2.1400	10.7000	0.2	0.035
HEPTACHLOR	0.134	10.00	1.344	1.99E-01	NV	NV	#VALUE!	#VALUE!
HEPTACHLOR EPOXIDE	0.136	3.00	0.409	6.10E-02	NV	NV	#VALUE!	#VALUE!

SHREW

Dose=(If*Ce+Is*Cs)/BW

Body Weight = (BW) 0.0150 kg
Food Ingestion Rate = (If) 0.001600 kg/day
Soil Ingestion Rate = (Is) 0.000048 kg/day
Cs = Contaminant concentration in soil
Ce = Contaminant conc. in earthworm (=soil conc.* BF)
BF = Soil to invertebrate biotransfer factor

TABLE M-7
PSC 47
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION
SHORT-TAILED SHREW - CONSERVATIVE INPUTS
NAS JACKSONVILLE, JACKSONVILLE, FLORIDA

Parameter	Max Soil Concentration mg/kg	Biotransfer Factor (soil to inv.)	Earthworm Concentration (mg/kg)	Dose (mg/kg/day)	NOAEL (mg/kg/day)	LOAEL (mg/kg/day)	NOAEL HQ	LOAEL HQ
Pesticides								
4,4'-DDD	2.5000	13.00	32.500	3.47467	0.8000	4.0000	4.3	0.9
4,4'-DDE	13.0000	13.00	169.000	18.06827	0.8000	4.0000	22.6	4.5
4,4'-DDT	180.0000	13.00	2340.000	250.17600	0.8000	4.0000	312.7	62.5
ALDRIN	0.0139	3.30	0.046	0.00494	0.2000	1.0000	0.0247	0.005
ALPHA-CHLORDANE	14.0000	5.00	70.000	7.51147	4.5800	9.1600	1.6	0.8
BETA-BHC	0.0127	5.00	0.064	0.00681	4.0000	20.0000	0.0017	0.0003
DELTA-BHC	0.0168	5.00	0.084	0.00901	0.0140	0.1400	0.6	0.1
DIELDRIN	3.4000	6.64	22.576	2.41899	0.0200	0.2000	120.9	12.1
ENDRIN	1.2100	3.60	4.356	0.46851	0.0920	0.9200	5.1	0.5
ENDRIN ALDEHYDE	0.0604	3.60	0.217	0.02339	0.0920	0.9200	0.3	0.03
ENDRIN KETONE	0.1279	3.60	0.460	0.04952	0.0920	0.9200	0.5	0.1
GAMMA-CHLORDANE	9.7000	5.00	48.500	5.20437	4.5800	9.1600	1.1	0.6
HEPTACHLOR	0.4300	10.00	4.300	0.46004	0.1000	1.0000	4.6	0.5
HEPTACHLOR EPOXIDE	0.0960	3.00	0.288	0.03103	0.1000	1.0000	0.3	0.03

SHREW

Dose=(If*Ce+Is*Cs)/BW

Body Weight = (BW)	0.01613 kg
Food Ingestion Rate = (If)	0.00143 kg/day
Soil Ingestion Rate = (Is)	0.0000429 kg/day

Cs = Contaminant concentration in soil
Ce = Contaminant conc. in earthworm (=soil conc.* BF)
BF = Soil to invertebrate biotransfer factor

TABLE M-8
PSC 51 - GOLF COURSE TEES
TERRESTRIAL WILDLIFE MODEL ECOLOGICAL EFFECTS QUOTIENT CALCULATION
SHORT-TAILED SHREW - AVERAGE INPUTS
NAS CECIL FIELD, JACKSONVILLE, FLORIDA

Parameter	Avg Soil Concentration mg/kg	Biotransfer Factor (soil to inv.)	Earthworm Concentration (mg/kg)	Dose (mg/kg/day)	NOAEL (mg/kg/day)	LOAEL (mg/kg/day)	NOAEL HQn	LOAEL HQl
Pesticides								
4,4'-DDD	0.395	13.00	5.130	0.45585	0.8000	4.0000	0.6	0.1
4,4'-DDE	1.174	13.00	15.267	1.35658	0.8000	4.0000	1.7	0.3
4,4'-DDT	7.188	13.00	93.449	8.30385	0.8000	4.0000	10.4	2.1
ALDRIN	0.137	3.30	0.451	0.04031	0.2000	1.0000	0.2	0.04
ALPHA-CHLORDANE	0.598	5.00	2.992	0.26687	4.5800	9.1600	0.1	0.03
BETA-BHC	0.136	5.00	0.682	0.06087	4.0000	20.0000	0.02	0.003
DELTA-BHC	0.137	5.00	0.683	0.06092	0.0140	0.1400	4.4	0.4
DIELDRIN	0.229	6.64	1.520	0.13539	0.0200	0.2000	6.8	0.7
ENDRIN	0.300	3.60	1.081	0.09660	0.0920	0.9200	1.1	0.1
ENDRIN ALDEHYDE	0.264	3.60	0.950	0.08496	0.0920	0.9200	0.9	0.1
ENDRIN KETONE	0.262	3.60	0.942	0.08420	0.0920	0.9200	0.9	0.1
GAMMA-CHLORDANE	0.508	5.00	2.542	0.22671	4.5800	9.1600	0.05	0.02
HEPTACHLOR	0.134	10.00	1.344	0.11954	0.1000	1.0000	1.2	0.1
HEPTACHLOR EPOXIDE	0.136	3.00	0.409	0.03662	0.1000	1.0000	0.4	0.04

APPENDIX M

CALCULATIONS AND COST ESTIMATES

1.0 ASSUMPTIONS

The following assumptions are made based upon results of field investigations:

- As illustrated on attached Figure 9-5, there are two groundwater contaminant plumes at PSC 47 including a Northern Plume with elevated concentrations of VOCs, SVOCs, and pesticides and a Southern Plume with elevated concentrations of VOCs, SVOCs, pesticides and arsenic.

- The Northern Plume includes monitoring wells 536-MW03S, MW11S, MW12S, MW13S, MW13D, and MW25S. This plume is approximately 500 feet long by 100 to 200 feet wide and extends along a west-northwest to east-southeast axis, overlapping the greater part of Building 536.

- The Southern Plume includes monitoring wells MW01S, MW02S, MW03S, MW04S, MW05S, MW06D, MW14S, MW17S, and MW17D. This plume is approximately 400 feet long by 200 feet wide bisecting Building 937 along a north-south axis.

- Within the Southern Plume an area located within and immediately south of Building 937 has been identified as containing the highest detections of arsenic (up to 23 mg/L) and has been designated as the Arsenic Hot Spot. The Arsenic Hot Spot includes wells MW01S, MW02S, MW03S, MW04S, MW05S, and MW06D and is approximately 10,800 ft^2 in size (0.247 acres & 117 feet in diameter).

- The thickness of contaminated groundwater is estimated at approximately 20 ft.

2.0 NORTHERN PLUME SURFACE AREA, THICKNESS, AND VOLUME

2.1. Northern Plume Surface Area

As shown on attached Figure 9-5 the surface area of the Northern Plume is estimated at approximately 64,600 ft^2.

2.2 Northern Plume Thickness

As stated in the assumptions the thickness of contaminated groundwater is estimated at approximately 20 ft. Groundwater surface elevation is approximately 5 ft below ground surface (bgs).

2.3 Northern Plume Volume

Groundwater in the Northern Plume area occurs in overburden with a typical porosity of 0.3. Therefore, the estimated volume of contaminated groundwater in the Northern Plume can be computed as follows:

64,600 ft^2 x 20 ft x 0.3 = 387,600 ft^3 or 2,899,000 gallons

3.0 NORTHERN PLUME COCS QUANTITIES COMPUTATIONS

The quantities of COCs within the Northern Plume groundwater can be computed based upon the volume of contaminated groundwater and the average concentrations of these COCs in that area. Average concentrations are assumed to be the mathematical average of the historical concentrations detected in samples collected from monitoring wells located within the Northern Plume.

Average concentrations (in µg/L) of COCs in the Northern Plume groundwater are computed in the table below. Analytical results shown on this table are those for samples collected at the indicated date that corresponds to the latest sampling.

Site-Specific COC	536-MW03	MW11S	MW12S	MW13S	MW13D	MW25S	Average
VOCs							
Benzene	2	2.5					1.42
Isopropylbenzene		9				2.5	2.45
Trichloroethene		4.5					3.25
SVOCs							
1,1-Biphenyl		8 J				5 J	2.50
2-Methylnaphthalene		103					40.50
Naphthalene		194				30	46.67
Pesticides							
Aldrin		0.11		0.011 J			0.021
alpha-BHC	4.2	9.3	1.1	2.7		3.4	3.451
beta-BHC		1.2	0.7	0.32		1.8	0.677
delta-BHC	4.6	8.3		2.3		3.6	3.833
gamma-BHC		15		3.3		4.4	3.883
4,4'-DDD	48			0.69	0.31		8.217
4,4'-DDE	0.92 J						0.237
4,4'-DDT				0.49			0.165
Dieldrin		0.033 J	0.15	0.036 J			0.046

NOTES
Blank spaces denote that detected concentration did not exceed the GCTL/MCL. Concentration is conservatively assumed to be equal to the GCTL/MCL for the calculation of the average.
J Estimated value

Quantities (in pounds) of COCs in the Northern Plume groundwater can be calculated according to the following formula:

$$\text{Quantity} = (2{,}899{,}000 \text{ gallons}) \times (8.34 \text{ lb/gal}) \times (\text{average } \mu\text{g/L concentration}) \times (10^{-9})$$

Accordingly, estimated quantities of COCs in the Northern Plume groundwater are as follows:

Site-Specific COC	**Quantity** (pounds)
Benzene	0.034
Isopropylbenzene	0.059
Trichloroethene	0.079
Subtotal VOCs	**0.172**
1,1-Biphenyl	0.060
2-Methylnaphthalene	0.979
Naphthalene	1.128
Subtotal SVOCs	**2.067**
Aldrin	0.0005
alpha-BHC	0.0834
beta-BHC	0.0164
delta-BHC	0.0927
gamma-BHC	0.0939
4,4'-DDD	0.1987
4,4'-DDE	0.0057
4,4'-DDT	0.0040
Dieldrin	0.0011
Subtotal Pesticides	**0.4964**
Total COCs	**2.7354**

4.0 SOUTHERN PLUME SURFACE AREA, THICKNESS, AND VOLUME

4.1. Southern Plume Surface Area

As shown on attached Figure 9-5 the surface area of the Southern Plume is estimated at approximately 69,100 ft^2.

4.2 Southern Plume Thickness

As stated in the assumptions the thickness of contaminated groundwater is estimated at approximately 20 ft. Groundwater surface elevation is approximately 5 ft bgs.

4.3 Southern Plume Volume

Groundwater in the Southern Plume area occurs in overburden with a typical porosity of 0.3. Therefore, the estimated volume of contaminated groundwater in the Southern Plume can be computed as follows:

69,100 ft^2 x 20 ft x 0.3 = 414,600 ft^3 or 3,101,000 gallons

5.0 SOUTHERN PLUME COCS QUANTITIES COMPUTATIONS

The quantities of COCs within the Southern Plume groundwater can be computed based upon the volume of contaminated groundwater and the average concentrations of these COCs in that area. Average concentrations are assumed to be the mathematical average of the historical concentrations detected in samples collected from monitoring wells located within the Southern Plume.

Average concentrations (in µg/L) of COCs in the Southern Plume groundwater are computed in the table below. Analytical results shown on this table are those for samples collected at the indicated date that corresponds to the latest sampling.

Site-Specific COC	MW01S	MW02S	MW03S	MW04S	MW05S	MW06D
VOCs						
Benzene		4.4	3.3	3.2	14.6	
1,2-Dibromo-3-Chloropropane		2.7				
cis-1,2-Dichloroethene		291	564	586	936	
Ethylbenzene					135	
Isopropylbenzene		1.6	1	1.1	3.6	
Tetrachloroethene		3.8	3.9	4		
Trichloroethene		3.1	7.4	7.7		
Vinyl Chloride		5.1	1.9	1.6	5.5	
Xylenes (total)		89.5	22.7	25.4	914	
SVOCs						
2,4-Dichlorophenol			529	87		
Naphthalene					21	
Pentachlorophenol			11	12		
2,4,5-Trichlorophenol			2,720			

Pesticides						
Aldrin		3.5	2.6	8.2	3.8	
alpha-BHC			0.64	0.45		
beta-BHC		0.097	3	3.9		
delta-BHC					4	
gamma-BHC			1.1	0.66		
4,4'-DDD			13	8.2		
4,4'-DDE					0.13	
Dieldrin			0.32	0.19		
Endrin Ketone		4.7				
Metals						
Arsenic (total)	41	8,400	23,000	8,220		40.3
Arsenic (dissolved)	26	8,400	17,500	8,220		

Site-Specific COC	MW14S	MW17S	MW17D	Average
VOCs				
Benzene			8.4	4.2
1,2-Dibromo-3-Chloropropane				0.5
cis-1,2-Dichloroethene			328	332
Ethylbenzene				42
Isopropylbenzene		3.8	4.6	2.0
Tetrachloroethene				3.3
Trichloroethene				4.0
Vinyl Chloride				2.1
Xylenes (total)			41.5	130.3
SVOCs				
2,4-Dichlorophenol				68.6
Naphthalene				14.8
Pentachlorophenol				3.3
2,4,5-Trichlorophenol				303
Pesticides				
Aldrin		0.01		2.0
alpha-BHC				0.13
beta-BHC			0.089	0.79
delta-BHC				2.3
gamma-BHC				0.35
4,4'-DDD		25		5.2
4,4'-DDE				0.1
Dieldrin		0.036		0.07
Endrin Ketone				2.3
Heptachlor Epoxide	0.62			0.25
Metals				
Arsenic (total)				4,416
Arsenic (dissolved)				3,799

NOTES

Blank spaces denote that detected concentration did not exceed the GCTL/MCL. Concentration is conservatively assumed to be equal to the GCTL/MCL for the calculation of the average.

J Estimated value

Quantities (in pounds) of COCs in the Southern Plume groundwater can be calculated according to the following formula:

$$\text{Quantity} = (3{,}101{,}000 \text{ gallons}) \times (8.34 \text{ lb/gal}) \times (\text{average } \mu g/L \text{ concentration}) \times (10^{-9})$$

Accordingly, estimated quantities of COCs in the Southern Plume groundwater are as follows:

Site-Specific COC	Quantity (pounds)
Benzene	0.11
1,2-Dibromo-3-Chloropropane	0.01
cis-1,2-Dichloroethene	8.59
Ethylbenzene	1.08
Isopropylbenzene	0.05
Tetrachloroethene	0.09
Trichloroethene	0.10
Vinyl Chloride	0.05
Xylenes (total)	3.37
Subtotal VOCs	**13.45**
2,4-Dichlorophenol	1.77
Naphthalene	0.38
Pentachlorophenol	0.09
2,4,5-Trichlorophenol	7.84
Subtotal SVOCs	**10.08**
Aldrin	0.052
alpha-BHC	0.003
beta-BHC	0.020
delta-BHC	0.059
gamma-BHC	0.009
4,4'-DDD	0.134
4,4'-DDE	0.003
Dieldrin	0.002
Endrin Ketone	0.059
Heptachlor Epoxide	0.006
Subtotal Pesticides	**0.347**
Arsenic (total)	114.3
Arsenic (dissolved)	98.1
Subtotal Metals	**114.3**
Total COCs	**138.18**

7.0 SOUTHERN PLUME ARSENIC HOT SPOT SURFACE AREA, THICKNESS, AND VOLUME

7.1. Southern Plume Arsenic Hot Spot Surface Area

As shown on attached Figure 9-5 the surface area of the Southern Plume Arsenic Hot Spot is estimated at approximately 10,800 ft^2.

7.2 Southern Plume Arsenic Hot Spot Thickness

As stated in the assumptions the thickness of contaminated groundwater is estimated at approximately 20 ft. Groundwater surface elevation is approximately 5 ft bgs.

7.3 Southern Plume Arsenic Hot Spot Volume

Groundwater in the Southern Plume Arsenic Hot Spot area occurs in overburden with a typical porosity of 0.3. Therefore, the estimated volume of contaminated groundwater in the Southern Plume Arsenic Hot Spot can be computed as follows:

10,800 ft^2 x 20 ft x 0.3 = 64,800 ft^3 or 484,700 gallons

8.0 SOUTHERN PLUME ARSENIC HOT SPOT COCS QUANTITIES COMPUTATIONS

The quantities of COCs within the Southern Plume Arsenic Hot Spot groundwater can be computed based upon the volume of contaminated groundwater and the average concentrations of these COCs in that area. Average concentrations are assumed to be the mathematical average of the historical concentrations detected in samples collected from monitoring wells located within the Southern Plume Arsenic Hot Spot.

Average concentrations (in µg/L) of COCs in the Southern Plume Arsenic Hot Spot groundwater are computed in the table below. Analytical results shown on this table are those for samples collected at the indicated date that corresponds to the latest sampling.

Site-Specific COC	MW01S	MW02S	MW03S	MW04S	MW05S	MW06D	Average
VOCs							
Benzene		4.4	3.3	3.2	14.6		4.6
1,2-Dibromo-3-Chloropropane		2.7					0.6
cis-1,2-Dichloroethene		291	564	586	936		419.5
Ethylbenzene					135		47.5
Isopropylbenzene		1.6	1	1.1	3.6		1.5
Tetrachloroethene		3.8	3.9	4			3.4
Trichloroethene		3.1	7.4	7.7			4.5
Vinyl Chloride		5.1	1.9	1.6	5.5		2.7
Xylenes (total)		89.5	22.7	25.4	914		182
SVOCs							
2,4-Dichlorophenol			529	87			102.9
Naphthalene					21		15.2
Pentachlorophenol			11	12			4.5
2,4,5-Trichlorophenol			2,720				454.2
Pesticides							
Aldrin		3.5	2.6	8.2	3.8		3.02
alpha-BHC			0.64	0.45			0.19
beta-BHC		0.097	3	3.9			1.18
delta-BHC					4		2.42
gamma-BHC			1.1	0.66			0.43
4,4'-DDD			13	8.2			3.60
4,4'-DDE					0.13		0.10
Dieldrin			0.32	0.19			0.10
Endrin Ketone		4.7					2.45

Metals							
Arsenic (total)	41	8,400	23,000	8,220		40.3	6,618
Arsenic (dissolved)	26	8,400	17,500	8,220		40.3	5,699

NOTE:

Blank spaces denote that detected concentration did not exceed the GCTL/MCL. Concentration is conservatively assumed to be equal to the GCTL/MCL for the calculation of the average.

Quantities (in pounds) of COCs in the Southern Plume Arsenic Hot Spot groundwater can be calculated according to the following formula:

$$\text{Quantity} = (484{,}700 \text{ gallons}) \times (8.34 \text{ lb/gal}) \times (\text{average } \mu\text{g/L concentration}) \times (10^{-9})$$

Accordingly, estimated quantities of COCs in the Southern Plume Arsenic Hot Spot groundwater are as follows:

COCs	**Quantity** (pounds)
Benzene	0.018
1,2-Dibromo-3-Chloropropane	0.002
cis-1,2-Dichloroethene	1.696
Ethylbenzene	0.192
Isopropylbenzene	0.006
Tetrachloroethene	0.014
Trichloroethene	0.018
Vinyl Chloride	0.011
Xylenes (total)	0.736
Subtotal VOCs	**2.693**
2,4-Dichlorophenol	0.415
Naphthalene	0.062
Pentachlorophenol	0.018
2,4,5-Trichlorophenol	1.836
Subtotal SVOCs	**2.331**
Aldrin	0.012
alpha-BHC	0.001
beta-BHC	0.004
delta-BHC	0.010
gamma-BHC	0.001
4,4'-DDD	0.015
4,4'-DDE	0.0004
Dieldrin	0.0004
Endrin Ketone	0.010
Subtotal Pesticides	**0.054**
Arsenic (total)	26.7
Arsenic (dissolved)	23.0
Subtotal Metals	**26.7**
Total COCs	**31.73**

NAVAL AIR STATION, JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-2: Monitored National Attenuation, and LUCs
Capital Cost

5/23/2007 8:18 AM

Item	Quantity	Unit	Unit Cost Subcontract	Material	Labor	Equipment	Extended Cost Subcontract	Material	Labor	Equipment	Subtotal
1 PROJECT PLANNING & DOCUMENTS											
1.1 Prepare LUC RD Documents	300	hr			$35.00		$0	$0	$10,500	$0	$10,500
Subtotal							$0	$0	$10,500	$0	$10,500
Local Area Adjustments							100.0%	113.5%	87.3%	87.3%	
							$0	$0	$9,167	$0	$9,167
Overhead on Labor Cost @ 30%									$2,750		$2,750
G & A on Labor Cost @ 10%									$917		$917
G & A on Material Cost @ 10%								$0			$0
G & A on Equipment Cost @ 10%										$0	$0
G & A on Subcontract Cost @ 10%							$0				$0
Tax on Materials and Equipment Cost @ 6%								$0		$0	$0
Total Direct Cost							$0	$0	$12,833	$0	$12,833
Indirects on Total Direct Cost @ 0%											$0
Profit on Total Direct Cost @ 10%											$1,283
Subtotal											$14,116
Health & Safety Monitoring @ 0%											$0
Total Field Cost											$14,116
Contingency on Total Field Costs @ 10%											$1,412
Engineering on Total Field Cost @ 0%											$0
TOTAL CAPITAL COST											**$15,528**

NAVAL AIR STATION, JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-2: Monitored National Attenuation, and LUCs
Annual Cost

5/23/2007 8:18 AM

Item	Item Cost year 1	Item Cost years 2 & 3	Item Cost years 4 & 5	Item Cost year 6 to 30	Item Cost every 5 years	Notes
Site Inspection: Visit	$1,860	$1,860	$1,860	$1,860		One-day visit to verify LUC RD
Site Inspection: Report	$800	$800	$800	$800		
Sampling	$59,720	$29,860	$14,930	$14,930		Labor and supplies to collect samples from wells using a crew of two.
Analysis/Water	$56,684	$28,342	$14,171	$14,171		Analyze groundwater samples from 20 wells for VOCs, SVOCs, pesticides & arsenic in years 1 through 30. Collect samples 4 times a year in year 1, twice a year in years 2 & 3, and once a year for years 4 through 30.
Analysis/Water	$46,200	$23,100	$11,550			Analyze groundwater samples from 14 wells for natural attenuation parameters in years 1 through 5. Collect samples 4 times a year in year 1, twice a year in years 2 & 3, and once a year for years 4 & 5.
Report	$6,000	$3,000	$1,500	$1,500		Document sampling events and results
Site Review					$17,000	Five Year Site Reviews
Subtotal	$171,264	$86,962	$44,811	$33,261	$17,000	
Contingency @ 10%	$17,126	$8,696	$4,481	$3,326	$1,700	
TOTAL	**$188,390**	**$95,658**	**$49,292**	**$36,587**	**$18,700**	

NAVAL AIR STATION, JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-2: Monitored National Attenuation, and LUCs
Present Worth Analysis

Year	Capital Cost	Annual Cost	Total Year Cost	Annual Discount Rate at 7%	Present Worth
0	$15,528		$15,528	1.000	$15,528
1		$188,390	$188,390	0.935	$176,145
2		$95,658	$95,658	0.873	$83,510
3		$95,658	$95,658	0.816	$78,057
4		$49,292	$49,292	0.763	$37,610
5		$67,992	$67,992	0.713	$48,478
6		$36,587	$36,587	0.666	$24,367
7		$36,587	$36,587	0.623	$22,794
8		$36,587	$36,587	0.582	$21,294
9		$36,587	$36,587	0.544	$19,903
10		$55,287	$55,287	0.508	$28,086
11		$36,587	$36,587	0.475	$17,379
12		$36,587	$36,587	0.444	$16,245
13		$36,587	$36,587	0.415	$15,184
14		$36,587	$36,587	0.388	$14,196
15		$55,287	$55,287	0.362	$20,014
16		$36,587	$36,587	0.339	$12,403
17		$36,587	$36,587	0.317	$11,598
18		$36,587	$36,587	0.296	$10,830
19		$36,587	$36,587	0.277	$10,135
20		$55,287	$55,287	0.258	$14,264
21		$36,587	$36,587	0.242	$8,854
22		$36,587	$36,587	0.226	$8,269
23		$36,587	$36,587	0.211	$7,720
24		$36,587	$36,587	0.197	$7,208
25		$55,287	$55,287	0.184	$10,173
26		$36,587	$36,587	0.172	$6,293
27		$36,587	$36,587	0.161	$5,891
28		$36,587	$36,587	0.15	$5,488
29		$36,587	$36,587	0.141	$5,159
30		$55,287	$55,287	0.131	$7,243
				TOTAL PRESENT WORTH	**$770,314**

Tetra Tech NUS		STANDARD CALCULATION SHEET	
CLIENT: SouthDiv	FILE No: 112GN3966.0000.HY0110100	BY: JLG	PAGE: 1 OF 1
SUBJECT: PSC 47 RI/FS, NAS Jacksonville Alternative GW-3A: Northern Plume In-Situ Enhanced Bioremediation		CHECKED BY:	DATE: 04/21/07

1.0 DESIGN ASSUMPTIONS

The following design assumptions are made based on the results of a site-specific bench-scale treatability study (TtNUS, 2007) and on typical design parameters for similar in-situ enhanced bioremediation projects:

- As demonstrated by a site specific bench-scale treatability study (TtNUS, 2007), in-situ bioremediation of the organic COCs of the Northern Plume, and particularly that of the pesticides, can be effectively enhanced by the addition of an emulsified vegetable oil type electron donor.
- The emulsified vegetable oil will be injected will be performed with the use of multiple direct push technology (DPT) injection wells.
- The average radius of influence (ROI) of each DPT injection well is approximately 10 ft.
- Only one chemical injection event will be required.
- In-situ chemical oxidation and precipitation will be completed within approximately one year.

2.0 DPT INJECTION SYSTEM

ROI of each DPT injection well: $(10\ ft)^2 \times \pi = 314\ ft^2$

Approximate surface area of Northern Plume (see Appendix A. 1):
340 ft x 190 ft = 64,600 ft^2

Number of DPT injection wells: 64,600 $ft^2 \div 314\ ft^2$/injection well = 206, say 230 wells

DPT injection wells will be installed to a depth of 25 ft below ground surface (bgs) and arranged as shown on attached figure.

3.0 EMULSIFIED VEGETABLE OIL INJECTION

Typical rate of emulsified oil injection is approximately 10 lbs per active foot of depth of the DPT injection well

Emulsified oil injected in each DPT well:
10 lbs/ ft x 20 ft = 200 lbs emulsified oil per DPT well, or approximately 27 gallons per well (@ 7.5 lbs/gal)

Emulsified oil is typically diluted 10-to-1 with water for injection

Volume injected in each DPT well: 27 gal x 10 = 270 gallons per DPT well

Total emulsified oil use for the Northern Plume:
200 lbs/DPT well x 230 DPT wells = 46,000 lbs vegetable oil

REFERENCES

TtNUS (Tetra Tech NUS, Inc.), 2007: Draft Bench Scale Treatability Study for Potential Source of Contamination 47, Naval Air Station Jacksonville, Jacksonville, Florida. Prepared for Naval Facilities Engineering Command Southeast, North Charleston, South Carolina. February

NAVAL AIR STATION, JACKSONVILLE 5/23/2007 8:19 AM
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-3A: Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored National Attenuation, and LUCs
Capital Cost

Item	Quantity	Unit	Unit Cost Subcontract	Unit Cost Material	Unit Cost Labor	Unit Cost Equipment	Extended Cost Subcontract	Extended Cost Material	Extended Cost Labor	Extended Cost Equipment	Subtotal
1 PROJECT PLANNING & DOCUMENTS											
1.1 Prepare LUC RD Documents	300	hr			$35.00		$0	$0	$10,500	$0	$10,500
1.2 Prepare Documents & Plans including Permits	300	hr			$35.00		$0	$0	$10,500	$0	$10,500
2 MOBILIZATION/DEMOBILIZATION & SITE SUPPORT											
2.1 Office Trailer	3	mo				$375.00	$0	$0	$0	$1,125	$1,125
2.2 Field Office Support	3	mo		$150.00			$0	$450	$0	$0	$450
2.3 Storage Trailer (1)	3	mo				$101.00	$0	$0	$0	$303	$303
2.4 Utility Connection/Disconnection (phone/electric)	1	ls	$1,500.00				$1,500	$0	$0	$0	$1,500
2.5 Site Utilities	3	mo	$150.00				$450	$0	$0	$0	$450
2.6 Underground Utility Clearances	1	ls	$3,500.00				$3,500	$0	$0	$0	$3,500
2.7 Construction Survey	5	day	$2,000.00				$10,000	$0	$0	$0	$10,000
2.8 DPT Mobilization/Demobilization	1	ea	$2,000.00				$2,000	$0	$0	$0	$2,000
2.9 Field Construction Mgt. (2 person)	60	day		$330.00	$600.00		$0	$19,800	$36,000	$0	$55,800
3 DECONTAMINATION											
3.1 Decontamination Services	3	mo		$1,100.00	$2,025.00	$1,400.00	$0	$3,300	$6,075	$4,200	$13,575
3.2 Temporary Equipment Decon Pad	1	ls		$1,500.00	$2,000.00	$300.00	$0	$1,500	$2,000	$300	$3,800
3.3 Decon Water	3,000	gal		$0.20			$0	$600	$0	$0	$600
3.4 Decon Water Storage Tank, 6,000 gallon	3	mo				$704.00	$0	$0	$0	$2,112	$2,112
3.5 Clean Water Storage Tank, 4,000 gallon	3	mo				$633.00	$0	$0	$0	$1,899	$1,899
3.6 Disposal of Decon Waste (liquid & solid)	3	mo	$950.00				$2,850	$0	$0	$0	$2,850
4 IN-SITU TREATMENT											
4.1 Pilot-Scale Test (assume cost @ 15% full-scale system)							$24,150	$28,863	$0	$0	$53,013
4.2 DPT Rig (Injections)	46	day	$3,000.00				$138,000	$0	$0	$0	$138,000
4.3 Injection Point Supplies (Injections)	5,750	vlf	$4.00				$23,000	$0	$0	$0	$23,000
4.4 EOS 598 B-42 Emulsified Oil	133	drum		$1,260.00			$0	$167,580	$0	$0	$167,580
4.5 Dechlorinated Water	62,100	gal		$0.40			$0	$24,840	$0	$0	$24,840
5 SITE RESTORATION											
5.1 Top Dress Soil	100	cy	$30.00				$3,000	$0	$0	$0	$3,000
5.2 Site Restoration, seed, fertilization, mulch	35	msf	$75.00				$2,625	$0	$0	$0	$2,625
5.3 Core & Repair Pavement, 2" dia holes	115	ea		$15.00	$65.00	$10.00	$0	$1,725	$7,475	$1,150	$10,350
Subtotal							$211,075	$248,658	$72,550	$11,089	$543,372
Local Area Adjustments							100.0%	113.5%	87.3%	87.3%	
							$211,075	$282,227	$63,336	$9,681	$566,319
Overhead on Labor Cost @ 30%									$19,001		$19,001
G & A on Labor Cost @ 10%									$6,334		$6,334
G & A on Material Cost @ 10%								$28,223			$28,223
G & A on Equipment Cost @ 10%										$968	$968
G & A on Subcontract Cost @ 10%							$21,108				$21,108
Tax on Materials and Equipment Cost @ 6%								$16,934		$581	$17,514
Total Direct Cost							$232,183	$327,383	$88,671	$11,230	$659,466

Item	Quantity	Unit	Unit Cost Subcontract	Unit Cost Material	Unit Cost Labor	Unit Cost Equipment	Extended Cost Subcontract	Extended Cost Material	Extended Cost Labor	Extended Cost Equipment	Subtotal
Indirects on Total Direct Cost @ 35%											$230,813
Profit on Total Direct Cost @ 10%											$65,947
Subtotal											$956,225
Health & Safety Monitoring @ 2%											$19,125
Total Field Cost											$975,350
Contingency on Total Field Costs @ 20%											$195,070
Engineering on Total Field Cost @ 5%											$48,767
TOTAL CAPITAL COST											**$1,219,187**

NAVAL AIR STATION, JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-3A: Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored National Attenuation, and LUCs
Annual Cost

Item	Item Cost year 1	Item Cost year 2	Item Cost year 3	Item Cost year 4	Item Cost year 5	Item Cost year 6	Item Cost year 7	Item Cost year 8	Item Cost years 9 to 30	Item Cost every 5 years
Site Inspection: Visit	$1,860	$1,860	$1,860	$1,860	$1,860	$1,860	$1,860	$1,860	$1,860	
Site Inspection: Report	$800	$800	$800	$800	$800	$800	$800	$800	$800	
Sampling	$59,720	$29,860	$29,860	$59,720	$29,860	$29,860	$14,930	$14,930	$14,930	
Analysis/Water	$56,684	$28,342	$28,342	$14,171	$14,171	$14,171	$14,171	$14,171	$14,171	
Analysis/Water	$27,720	$13,860	$13,860	$25,410	$16,170	$9,240	$4,620	$4,620		
Report	$6,000	$3,000	$3,000	$6,000	$3,000	$3,000	$1,500	$1,500	$1,500	
Site Review										$17,000
Subtotal	$152,784	$77,722	$77,722	$107,961	$65,861	$58,931	$37,881	$37,881	$33,261	$17,000
Contingency @ 10%	$15,278	$7,772	$7,772	$10,796	$6,586	$5,893	$3,788	$3,788	$3,326	$1,700
TOTAL	**$168,062**	**$85,494**	**$85,494**	**$118,757**	**$72,447**	**$64,824**	**$41,669**	**$41,669**	**$36,587**	**$18,700**

Notes
One-day visit to verify LUC RD
Labor and supplies to collect samples from wells using a crew of two.
Analyze groundwater samples from 21 wells for VOCs, SVOCs, pesticides & arsenic in years 1 through 30. Collect samples 4 times a year in year 1, twice a year in years 2 & 3, and once a year for years 4 through 30.
Analyze groundwater samples from 15 wells for natural attenuation parameters. For 9 wells collect samples 4 times a year in year 1, twice a year in years 2 & 3, and once a year for years 4 & 5. For 6 wells collect samples 4 times a year in year 4, twice a year in years 5 & 6, and once a year for years 7 & 8.
Document sampling events and results
Five Year Site Reviews

NAVAL AIR STATION, JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-3A: Northern Plume In-Situ Treatment (Enhanced Bioremediation), Monitored National Attenuation, and LUCs
Present Worth Analysis

Year	Capital Cost	Annual Cost	Total Year Cost	Annual Discount Rate at 7%	Present Worth
0	$1,219,187		$1,219,187	1.000	$1,219,187
1		$168,062	$168,062	0.935	$157,138
2		$85,494	$85,494	0.873	$74,636
3		$85,494	$85,494	0.816	$69,763
4		$118,757	$118,757	0.763	$90,612
5		$91,147	$91,147	0.713	$64,988
6		$64,824	$64,824	0.666	$43,173
7		$41,669	$41,669	0.623	$25,960
8		$41,669	$41,669	0.582	$24,251
9		$36,587	$36,587	0.544	$19,903
10		$55,287	$55,287	0.508	$28,086
11		$36,587	$36,587	0.475	$17,379
12		$36,587	$36,587	0.444	$16,245
13		$36,587	$36,587	0.415	$15,184
14		$36,587	$36,587	0.388	$14,196
15		$55,287	$55,287	0.362	$20,014
16		$36,587	$36,587	0.339	$12,403
17		$36,587	$36,587	0.317	$11,598
18		$36,587	$36,587	0.296	$10,830
19		$36,587	$36,587	0.277	$10,135
20		$55,287	$55,287	0.258	$14,264
21		$36,587	$36,587	0.242	$8,854
22		$36,587	$36,587	0.226	$8,269
23		$36,587	$36,587	0.211	$7,720
24		$36,587	$36,587	0.197	$7,208
25		$55,287	$55,287	0.184	$10,173
26		$36,587	$36,587	0.172	$6,293
27		$36,587	$36,587	0.161	$5,891
28		$36,587	$36,587	0.15	$5,488
29		$36,587	$36,587	0.141	$5,159
30		$55,287	$55,287	0.131	$7,243
				TOTAL PRESENT WORTH	**$2,032,241**

1.0 DESIGN ASSUMPTIONS

The following design assumptions are made based upon information for other similar in-situ chemical treatment projects:

- The arsenic of the Southern Plume Arsenic Hot Spot can be effectively oxidized and immobilized through the combined subsurface injection of a ferric iron salt such as ferric chloride ($Fe\ Cl_3$) and an oxygen release compound (ORC) such as magnesium peroxide (MgO_2).
- Chemical injection will be performed with the use of multiple direct push technology (DPT) injection wells.
- The average radius of influence (ROI) of each DPT injection well is approximately 8 ft.
- Only one chemical injection event will be required.
- In-situ chemical oxidation and precipitation will be completed within approximately one year.

2.0 DPT INJECTION SYSTEM

ROI of each DPT injection well: $(8\ ft)^2 \times \pi = 201\ ft^2$

Approximate surface area of Arsenic Hot Spot is 10,800 ft^2 (see Appendix --)

Number of DPT injection wells: 10,800 $ft^2 \div 201\ ft^2$/injection well = 53.7, say 55 wells

DPT injection wells will be installed to a depth of 25 ft below ground surface (bgs) and arranged as shown on attached figure.

3.0 IRON SALT INJECTION

Arsenic co-precipitation requires approximately 1 mg/L ferric iron per 50 µg/L of arsenic.

Based on average soluble arsenic concentration detected in plume (see Appendix), required ferric iron concentration:
1 mg/L x (5,699 µg/L ÷ 50 µg/L) = 113.98, say 115 mg/L

Because current analytical data show that approximately 20 mg/L ferric iron is already present, it is assumed that the ferric iron concentration of the arsenic hot spot will have to be increased by 95 mg/L through subsurface injection.

Estimated volume of arsenic hot spot: 10,800 ft^2 x 20 ft x 0.3 = 64,800 ft^3 or 484,700 gal

Required ferric iron quantity: 484,700 gal x 95 mg/L x 8.34 lbs/gal x 10^{-6} = 384 pounds
Required ferric chloride quantity: 384 pounds x (162.5 ÷ 56) = 1,114, say 1,150 pounds of $FeCl_3$
Double this quantity to counterbalance inefficiencies in the injection process
Ferric chloride is typically available commercially as a 40% (wt) solution with a specific gravity of 11.7 lbs/gal
Required quantity of commercial ferric solution: 1,150 lbs x 2 ÷ (0.4 x 11.7 lbs/gal) = 491, say 500 gal 40% $FeCL_3$ solution

Assume that the commercial 40% $FeCl_3$ will be diluted 100 to 1 for injection:

Volume injected per DPT well: 500 gal x 100 ÷ 55 wells = 909 gal/well

2.0 ORC INJECTION

Rate of ORC injection per DPT well: 10 lbs/ft x 20 ft = 200 lbs per DPT well

Total ORC use for the arsenic hot spot: 200 lbs/DPT well x 55 DPT wells = 11,000 lbs ORC.

NAVAL AIR STATION, JACKSONVILLE 5/23/2007 8:19 AM
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-3B: Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored National Attenuation, and LUCs
Capital Cost

Item	Quantity	Unit	Unit Cost Subcontract	Unit Cost Material	Unit Cost Labor	Unit Cost Equipment	Extended Cost Subcontract	Extended Cost Material	Extended Cost Labor	Extended Cost Equipment	Subtotal
1 PROJECT PLANNING & DOCUMENTS											
1.1 Prepare LUC RD Documents	300	hr			$35.00		$0	$0	$10,500	$0	$10,500
1.2 Prepare Documents & Plans including Permits	300	hr			$35.00		$0	$0	$10,500	$0	$10,500
2 MOBILIZATION/DEMOBILIZATION & SITE SUPPORT											
2.1 Office Trailer	1.5	mo				$375.00	$0	$0	$0	$563	$563
2.2 Field Office Support	1.5	mo		$150.00			$0	$225	$0	$0	$225
2.3 Storage Trailer (1)	1.5	mo				$101.00	$0	$0	$0	$152	$152
2.4 Utility Connection/Disconnection (phone/electric)	1	ls	$1,500.00				$1,500	$0	$0	$0	$1,500
2.5 Site Utilities	1.5	mo	$150.00				$225	$0	$0	$0	$225
2.6 Underground Utility Clearances	1	ls	$3,500.00				$3,500	$0	$0	$0	$3,500
2.7 Construction Survey	5	day	$2,000.00				$10,000	$0	$0	$0	$10,000
2.8 DPT Mobilization/Demobilization	1	ea	$2,000.00				$2,000	$0	$0	$0	$2,000
2.9 Field Construction Mgt. (2 person)	31	day		$330.00	$600.00		$0	$10,230	$18,600	$0	$28,830
3 DECONTAMINATION											
3.1 Decontamination Services	1.5	mo		$1,100.00	$2,025.00	$1,400.00	$0	$1,650	$3,038	$2,100	$6,788
3.2 Temporary Equipment Decon Pad	1	ls		$1,500.00	$2,000.00	$300.00	$0	$1,500	$2,000	$300	$3,800
3.3 Decon Water	1,500	gal		$0.20			$0	$300	$0	$0	$300
3.4 Decon Water Storage Tank, 6,000 gallon	1.5	mo				$704.00	$0	$0	$0	$1,056	$1,056
3.5 Clean Water Storage Tank, 4,000 gallon	1.5	mo				$633.00	$0	$0	$0	$950	$950
3.6 Disposal of Decon Waste (liquid & solid)	1.5	mo	$950.00				$1,425	$0	$0	$0	$1,425
4 IN-SITU TREATMENT											
4.1 Bench-Scale Treatability Study	1	ls	$10,000.00				$10,000	$0	$0	$0	$10,000
4.2 Pilot-Scale Test (assume cost @ 15% full-scale system							$7,785	$18,810	$0	$0	$26,595
4.3 DPT Rig (Injections)	14	day	$3,000.00				$42,000	$0	$0	$0	$42,000
4.4 Injection Point Supplies (Injections)	2,475	vlf	$4.00				$9,900	$0	$0	$0	$9,900
4.5 Ferric Chloride	10	ls		$440.00			$0	$4,400	$0	$0	$4,400
4.6 Dechlorinated Water	55,000	gal		$0.40			$0	$22,000	$0	$0	$22,000
4.7 ORC	11,000	gal		$9.00			$0	$99,000	$0	$0	$99,000
5 SITE RESTORATION											
5.1 Top Dress Soil	50	cy	$30.00				$1,500	$0	$0	$0	$1,500
5.2 Site Restoration, seed, fertilization, mulch	20	msf	$75.00				$1,500	$0	$0	$0	$1,500
5.3 Core & Repair Pavement, 2" dia holes	50	ea		$15.00	$65.00	$10.00	$0	$750	$3,250	$500	$4,500
Subtotal							$91,335	$158,865	$47,888	$5,620	$303,707
Local Area Adjustments							100.0%	113.5%	87.3%	87.3%	
							$91,335	$180,312	$41,806	$4,906	$318,358
Overhead on Labor Cost @ 30%									$12,542		$12,542
G & A on Labor Cost @ 10%									$4,181		$4,181
G & A on Material Cost @ 10%								$18,031			$18,031
G & A on Equipment Cost @ 10%										$491	$491
G & A on Subcontract Cost @ 10%							$9,134				$9,134
Tax on Materials and Equipment Cost @ 6%								$10,819		$294	$11,113
Total Direct Cost							$100,469	$209,162	$58,528	$5,691	$373,849

Item	Quantity	Unit	Unit Cost Subcontract	Unit Cost Material	Unit Cost Labor	Unit Cost Equipment	Extended Cost Subcontract	Extended Cost Material	Extended Cost Labor	Extended Cost Equipment	Subtotal
Indirects on Total Direct Cost @ 35%											$130,847
Profit on Total Direct Cost @ 10%											$37,385
Subtotal											$542,081
Health & Safety Monitoring @ 2%											$10,842
Total Field Cost											$552,923
Contingency on Total Field Costs @ 20%											$110,585
Engineering on Total Field Cost @ 5%											$27,646
TOTAL CAPITAL COST											**$691,153**

NAVAL AIR STATION, JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-3B: Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored National Attenuation, and LUCs
Annual Cost

Item	Item Cost year 1	Item Cost year 2	Item Cost year 3	Item Cost year 4	Item Cost year 5	Item Cost year 6	Item Cost years 7 to 30	Item Cost every 5 years	Notes
Site Inspection: Visit	$1,860	$1,860	$1,860	$1,860	$1,860	$1,860	$1,860		One-day visit to verify LUC RD
Site Inspection: Report	$800	$800	$800	$800	$800	$800	$800		
Sampling	$59,720	$59,720	$29,860	$29,860	$29,860	$14,930	$14,930		Labor and supplies to collect samples from wells using a crew of two.
Analysis/Water	$56,684	$28,342	$28,342	$14,171	$14,171	$14,171	$14,171		Analyze groundwater samples from 21 wells for VOCs, SVOCs, pesticides & arsenic in years 1 through 30. Collect samples 4 times a year in year 1, twice a year in years 2 & 3, and once a year for years 4 through 30.
Analysis/Water	$18,480	$27,720	$18,480	$13,860	$9,240	$4,620			Analyze groundwater samples from 15 wells for natural attenuation parameters. For 6 wells collect samples 4 times a year in year 1, twice a year in years 2 & 3, and once a year for years 4 & 5. For 9 wells collect samples 4 times a year in year 2, twice a year in years 3 & 4, and once a year for years 5 & 6.
Report	$6,000	$6,000	$3,000	$3,000	$3,000	$3,000	$1,500		Document sampling events and results
Site Review								$17,000	Five Year Site Reviews
Subtotal	$143,544	$124,442	$82,342	$63,551	$58,931	$39,381	$33,261	$17,000	
Contingency @ 10%	$14,354	$12,444	$8,234	$6,355	$5,893	$3,938	$3,326	$1,700	
TOTAL	**$157,898**	**$136,886**	**$90,576**	**$69,906**	**$64,824**	**$43,319**	**$36,587**	**$18,700**	

NAVAL AIR STATION, JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative GW-3B: Southern Plume In-Situ Treatment (Chemical Oxidation & Precipitation), Monitored National Attenuation, and LUCs
Present Worth Analysis

Year	Capital Cost	Annual Cost	Total Year Cost	Annual Discount Rate at 7%	Present Worth
0	$691,153		$691,153	1.000	$691,153
1		$157,898	$157,898	0.935	$147,635
2		$136,886	$136,886	0.873	$119,502
3		$90,576	$90,576	0.816	$73,910
4		$69,906	$69,906	0.763	$53,338
5		$83,524	$83,524	0.713	$59,553
6		$43,319	$43,319	0.666	$28,851
7		$36,587	$36,587	0.623	$22,794
8		$36,587	$36,587	0.582	$21,294
9		$36,587	$36,587	0.544	$19,903
10		$55,287	$55,287	0.508	$28,086
11		$36,587	$36,587	0.475	$17,379
12		$36,587	$36,587	0.444	$16,245
13		$36,587	$36,587	0.415	$15,184
14		$36,587	$36,587	0.388	$14,196
15		$55,287	$55,287	0.362	$20,014
16		$36,587	$36,587	0.339	$12,403
17		$36,587	$36,587	0.317	$11,598
18		$36,587	$36,587	0.296	$10,830
19		$36,587	$36,587	0.277	$10,135
20		$55,287	$55,287	0.258	$14,264
21		$36,587	$36,587	0.242	$8,854
22		$36,587	$36,587	0.226	$8,269
23		$36,587	$36,587	0.211	$7,720
24		$36,587	$36,587	0.197	$7,208
25		$55,287	$55,287	0.184	$10,173
26		$36,587	$36,587	0.172	$6,293
27		$36,587	$36,587	0.161	$5,891
28		$36,587	$36,587	0.15	$5,488
29		$36,587	$36,587	0.141	$5,159
30		$55,287	$55,287	0.131	$7,243
				TOTAL PRESENT WORTH	**$1,480,561**

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR ARSENIC, PESTICIDE, AND VOC GROUNDWATER TAG LAYOUT 4/26/07 SP

JAX47-MW11S [04/04/02]
VOLATILES (UG/L)
BENZENE 4 J
ISOPROPYLBENZENE 5
TRICHLOROETHENE 23
PESTICIDES/PCBS (UG/L)
ALPHA-BHC 4.8
BETA-BHC 1.7
DELTA-BHC 4.2
GAMMA-BHC (LINDANE) 8.4
INORGANICS (UG/L)
IRON 679
JAX47-MW11S [12/01/06]
VOLATILES (UG/L)
BENZENE 2.5
ISOPROPYLBENZENE 9
TRICHLOROETHENE 4.5
SEMIVOLATILES (UG/L)
1,1-BIPHENYL 8 J
2-METHYLNAPHTHALENE 103
NAPHTHALENE 194
PESTICIDES/PCBS (UG/L)
ALDRIN 0.11 J
ALPHA-BHC 9.3
BETA-BHC 1.2
DELTA-BHC 8.3
DIELDRIN 0.033 J
GAMMA-BHC (LINDANE) 15

JAX47-MW27S [01/20/03]
PESTICIDES/PCBS (UG/L)
BETA-BHC 0.064
JAX47-MW27S [11/30/06]
PESTICIDES/PCBS (UG/L)
ALPHA-BHC 0.21
BETA-BHC 0.16
DIELDRIN 0.004 J
GAMMA-BHC (LINDANE) 0.33

JAX47-MW13D [04/04/02]
PESTICIDES/PCBS (UG/L)
4,4'-DDD 1.9
4,4'-DDT 0.17
ALPHA-BHC 0.057
INORGANICS (UG/L)
ALUMINUM 15600
IRON 3910
JAX47-MW13D [12/01/06]
PESTICIDES/PCBS (UG/L)
4,4'-DDD 0.31

JAX47-MW13S [04/04/02]
SEMIVOLATILES (UG/L)
2-METHYLNAPHTHALENE 31
PESTICIDES/PCBS (UG/L)
4,4'-DDD 3.1
4,4'-DDT 1.5
ALPHA-BHC 14
BETA-BHC 1.2
DELTA-BHC 10
GAMMA-BHC (LINDANE) 22
INORGANICS (UG/L)
ALUMINUM 929
IRON 1400
JAX47-MW13S [07/25/05]
PESTICIDES/PCBS (UG/L)
4,4'-DDD 3.4
4,4'-DDT 1.7
ALPHA-BHC 1.2
BETA-BHC 0.38 I
DIELDRIN 0.32 I
GAMMA-BHC (LINDANE) 1.1
JAX47-MW13S [12/01/06]
PESTICIDES/PCBS (UG/L)
4,4'-DDD 0.69
4,4'-DDT 0.49
ALDRIN 0.011 J
ALPHA-BHC 2.7
BETA-BHC 0.32
DELTA-BHC 2.3
DIELDRIN 0.036 J
GAMMA-BHC (LINDANE) 3.3

JAX47-MW29S [03/09/07]
PESTICIDES/PCBS (UG/L)
DIELDRIN 0.004 J

JAX47-MW25S [11/07/02]
VOLATILES (UG/L)
BENZENE 2 J
ISOPROPYLBENZENE 7
TRICHLOROETHENE 4 J
PESTICIDES/PCBS (UG/L)
ALPHA-BHC 5.9
BETA-BHC 2.8
DELTA-BHC 5.6
GAMMA-BHC (LINDANE) 10
JAX47-MW25S [12/08/06]
VOLATILES (UG/L)
ISOPROPYLBENZENE 2.5
SEMIVOLATILES (UG/L)
1,1-BIPHENYL 5 J
NAPHTHALENE 30
PESTICIDES/PCBS (UG/L)
ALPHA-BHC 3.4
BETA-BHC 1.8 J
DELTA-BHC 3.6
GAMMA-BHC (LINDANE) 4.4

JAX47-MW11D [04/04/02]
INORGANICS (UG/L)
IRON 325
MANGANESE 128

JAX47-MW12S [04/10/02]
PESTICIDES/PCBS (UG/L)
BETA-BHC 1.3
DIELDRIN 0.023 J
INORGANICS (UG/L)
MANGANESE 53.7
JAX47-MW12S [12/08/06]
PESTICIDES/PCBS (UG/L)
ALPHA-BHC 1.1 J
BETA-BHC 0.7 J
DIELDRIN 0.15 J

JAX47-MW14S [12/08/06]
PESTICIDES/PCBS (UG/L)
DIELDRIN 0.003 J
HEPTACHLOR EPOXIDE 0.62 J

JAX47-MW30S [03/09/07]
PESTICIDES/PCBS (UG/L)
DIELDRIN 0.009 J

JAX47-MW15S [04/08/02]
INORGANICS (UG/L)
IRON 469

JAX47-MW15D [04/08/02]
INORGANICS (UG/L)
IRON 569
MANGANESE 65.3

JAX47-937-MW02S [04/09/02]
VOLATILES (UG/L)
CHLOROMETHANE 3 J
TETRACHLOROETHENE 11
TRICHLOROETHENE 4 J
INORGANICS (UG/L)
IRON 10500
MANGANESE 196
JAX47-937-MW02S [02/27/04]
INORGANICS (UG/L)
ARSENIC 8960
JAX47-937-MW02S [11/30/06]
VOLATILES (UG/L)
1,2-DIBROMO-3-CHLOROPROPANE 2.7
BENZENE 4.4
CIS-1,2-DICHLOROETHENE 228 J
ISOPROPYLBENZENE 1.6
TETRACHLOROETHENE 3.8
TOTAL XYLENES 89.5
TRICHLOROETHENE 3.1
VINYL CHLORIDE 5.1
SEMIVOLATILES (UG/L)
2,4,5-TRICHLOROPHENOL 104
2,4-DICHLOROPHENOL 6 J
PESTICIDES/PCBS (UG/L)
ALDRIN 3.5 J
BETA-BHC 0.097 J
INORGANICS (UG/L)
ARSENIC 8400
JAX47-937-MW02S [04/03/07]
INORGANICS (UG/L)
ARSENIC 6640

JAX47-937-MW03S [04/11/02]
VOLATILES (UG/L)
TRICHLOROETHENE 6
PESTICIDES/PCBS (UG/L)
4,4'-DDD 20
4,4'-DDE 0.15 J
4,4'-DDT 5.7
ALPHA-BHC 2.4
BETA-BHC 1.2
DELTA-BHC 3.6
DIELDRIN 0.83 J
GAMMA-BHC (LINDANE) 6.1
HERBICIDES (UG/L)
2,4,5-T 10000 J
2,4-D 1000 J
INORGANICS (UG/L)
IRON 6790
MANGANESE 96.5
JAX47-937-MW03S [03/26/04]
INORGANICS (UG/L)
ARSENIC 7930
JAX47-937-MW03S [07/25/05]
PESTICIDES/PCBS (UG/L)
4,4'-DDD 34.5
ALPHA-BHC 5.3
BETA-BHC 3.6
DELTA-BHC 7.1
DIELDRIN 1.8 I
GAMMA-BHC (LINDANE) 12.6
JAX47-937-MW03S [11/29/06]
VOLATILES (UG/L)
BENZENE 3.3
CIS-1,2-DICHLOROETHENE 564
ISOPROPYLBENZENE 1 J
TETRACHLOROETHENE 3.9 J
TOTAL XYLENES 22.7
TRICHLOROETHENE 7.4
VINYL CHLORIDE 1.9
SEMIVOLATILES (UG/L)
2,4,5-TRICHLOROPHENOL 2720
2,4-DICHLOROPHENOL 529
PENTACHLOROPHENOL 11
PESTICIDES/PCBS (UG/L)
4,4'-DDD 13 J
ALDRIN 2.6 J
ALPHA-BHC 0.64 J
BETA-BHC 1.1 J
DIELDRIN 0.32 J
GAMMA-BHC (LINDANE) 1.1 J
INORGANICS (UG/L)
ARSENIC 23000
JAX47-937-MW03S [04/03/07]
INORGANICS (UG/L)
ARSENIC 6240

JAX47-MW10S
NO EXCEEDANCES

JAX47-MW26S
NO EXCEEDANCES

JAX47-MW28S [12/08/06]
PESTICIDES/PCBS (UG/L)
DIELDRIN 0.003 J

JAX47-MW16S [04/05/02]
INORGANICS (UG/L)
IRON 1360

JAX47-MW16D [04/05/02]
INORGANICS (UG/L)
IRON 6700
MANGANESE 256

JAX47-MW31D
NO EXCEEDANCES

JAX47-MW24D
NO EXCEEDANCES

JAX47-MW23S
NO EXCEEDANCES

JAX47-MW22D
NO EXCEEDANCES

JAX47-MW21S
NO EXCEEDANCES

JAX47-937-MW06D [04/11/02]
VOLATILES (UG/L)
CHLOROMETHANE 3 J
INORGANICS (UG/L)
ARSENIC 16.4
IRON 15500
JAX47-937-MW06D [11/30/06]
INORGANICS (UG/L)
ARSENIC 40.3

JAX47-MW17S [04/04/02]
VOLATILES (UG/L)
ETHYLBENZENE 44
ISOPROPYLBENZENE 10
TETRACHLOROETHENE 21
TOTAL XYLENES 750
PESTICIDES/PCBS (UG/L)
4,4'-DDD 6.5
4,4'-DDT 1.1
ALPHA-CHLORDANE 4
HEPTACHLOR 0.60
INORGANICS (UG/L)
IRON 25800
JAX47-MW17S [12/05/06]
VOLATILES (UG/L)
ISOPROPYLBENZENE 3.8
PESTICIDES/PCBS (UG/L)
4,4'-DDD 25 J
ALDRIN 0.01 J
DIELDRIN 0.036 J

JAX47-MW17D [04/04/02]
VOLATILES (UG/L)
BENZENE 11
CIS-1,2-DICHLOROETHENE 400
ISOPROPYLBENZENE 3 J
TOTAL XYLENES 54
VINYL CHLORIDE 2 J
PESTICIDES/PCBS (UG/L)
4,4'-DDD 0.26
INORGANICS (UG/L)
IRON 6000
MANGANESE 168
JAX47-MW17D [12/05/06]
VOLATILES (UG/L)
BENZENE 8.4
CIS-1,2-DICHLOROETHENE 328
ISOPROPYLBENZENE 4.6
TOTAL XYLENES 41.5
PESTICIDES/PCBS (UG/L)
BETA-BHC 0.089

JAX47-MW19S [04/12/02]
INORGANICS (UG/L)
IRON 395

JAX47-MW14D [04/10/02]
INORGANICS (UG/L)
IRON 840
MANGANESE 277

JAX47-937-MW01S [04/11/02]
VOLATILES (UG/L)
ISOPROPYLBENZENE 2 J
TETRACHLOROETHENE 7
TOTAL XYLENES 220
SEMIVOLATILES (UG/L)
NAPHTHALENE 25
INORGANICS (UG/L)
ARSENIC 746
IRON 31000
JAX47-937-MW01S [02/27/04]
INORGANICS (UG/L)
ARSENIC 387
JAX47-937-MW01S [11/29/06]
PESTICIDES/PCBS (UG/L)
DIELDRIN 0.003 J
INORGANICS (UG/L)
ARSENIC 41

JAX47-536-MW03 [04/09/02]
VOLATILES (UG/L)
BENZENE 2 J
PESTICIDES/PCBS (UG/L)
4,4'-DDD 48
4,4'-DDE 0.92 J
ALPHA-BHC 4.2
DELTA-BHC 4.6
INORGANICS (UG/L)
IRON 33000

USGS-DSMW46 [04/09/02]
INORGANICS (UG/L)
IRON 1980

USGS-SSMW45 [04/09/02]
INORGANICS (UG/L)
ALUMINUM 2530
IRON 31200

JAX47-MW20S [04/09/02]
INORGANICS (UG/L)
IRON 4460
MANGANESE 82.1
JAX47-MW20S [11/30/06]
PESTICIDES/PCBS (UG/L)
DIELDRIN 0.047 J

JAX47-MW18S [04/05/02]
INORGANICS (UG/L)
IRON 7080

JAX47-MW18D [04/05/02]
INORGANICS (UG/L)
IRON 8210
MANGANESE 307
JAX47-MW18D [11/30/06]
INORGANICS (UG/L)
ARSENIC 10.2

JAX47-937-MW04S [04/11/02]
VOLATILES (UG/L)
BENZENE 9
CHLOROMETHANE 3 J
CIS-1,2-DICHLOROETHENE 150
ETHYLBENZENE 200 J
ISOPROPYLBENZENE 6
TETRACHLOROETHENE 24
TOLUENE 180
TOTAL XYLENES 6200
TRICHLOROETHENE 4 J
INORGANICS (UG/L)
IRON 38400
MANGANESE 465
JAX47-937-MW04S [12/01/06]
VOLATILES (UG/L)
BENZENE 3.2
CIS-1,2-DICHLOROETHENE 586
ISOPROPYLBENZENE 1.1
TETRACHLOROETHENE 4 J
TOTAL XYLENES 25.4
TRICHLOROETHENE 7.7
VINYL CHLORIDE 1.6
SEMIVOLATILES (UG/L)
2,4-DICHLOROPHENOL 87
PENTACHLOROPHENOL 12 J
PESTICIDES/PCBS (UG/L)
4,4'-DDD 8.2
ALDRIN 2.6 J
ALPHA-BHC 0.45
BETA-BHC 3.9 J
DIELDRIN 0.19 J
GAMMA-BHC (LINDANE) 0.66
INORGANICS (UG/L)
ARSENIC 5880

JAX47-937-MW05S [04/09/02]
PESTICIDES/PCBS (UG/L)
4,4'-DDD 0.13
INORGANICS (UG/L)
IRON 11000
MANGANESE 214
JAX47-937-MW05S [11/29/06]
VOLATILES (UG/L)
BENZENE 14.6
CIS-1,2-DICHLOROETHENE 936
ETHYLBENZENE 135
ISOPROPYLBENZENE 3.6 J
TOTAL XYLENES 914
VINYL CHLORIDE 5.5
SEMIVOLATILES (UG/L)
NAPHTHALENE 21
PESTICIDES/PCBS (UG/L)
4,4'-DDE 0.13 J
ALDRIN 3.8 J
DELTA-BHC 4 J
DIELDRIN 0.018 J
INORGANICS (UG/L)
ARSENIC 2310
JAX47-937-MW05S [04/03/07]
INORGANICS (UG/L)
ARSENIC 2100

523
536
937
Child Street

N

160 0 160 Feet

LEGEND

- Groundwater Sample Location Greater than FDEP GCTLs
- Groundwater Sample Location Less than FDEP GCTLs
- Road
- Sidewalk
- Fence
- Surface Water
- PSC Boundary
- Building/Structure
- Vegetation

DRAWN BY: S. PAXTON	DATE: 4/26/07
CHECKED BY: J. GLORIEUX	DATE: 4/26/07
COST/SCHEDULE-AREA	
SCALE: AS NOTED	

NAVFAC

GCTL EXCEEDANCES IN GROUNDWATER

PSC 47

NAS JACKSONVILLE

JACKSONVILLE, FLORIDA

CONTRACT NUMBER: CTO 0047

APPROVED BY: — DATE: —

APPROVED BY: — DATE: —

DRAWING NO.: —

REV: 0

1.0 ASSUMPTIONS

Contaminated soil computations are based on the following assumptions:

- Contaminated soil are defined as soil with concentrations of chemicals of concern (COCs) that are greater than either of the Florida Department of Environmental Protection (FDEP's) Soil Cleanup Target Levels (SCTLs) for direct residential exposure (thereafter referred to as residential SCTLs), or SCTLs for direct industrial exposure (thereafter referred to as industrial SCTLs), or SCTLs for leachability to groundwater (thereafter referred to as leachability SCTLs).

- The soil Preliminary Remedial Goals (PRGs) for this FS are defined as either the residential or leachability SCTLs, whichever are the lower.

- The industrial SCTLs are also considered as the direct exposure criteria instead of the residential SCTLs and together with the leachability SCTLs for the development of active remedial actions that address existing unacceptable human health risks under the current industrial site use.

- The industrial SCTLs are also used by themselves as disposal criteria to determine which portion of any excavated soil would be identified as RCRA-hazardous.

- Contaminated soils are divided by depth into surface soil and subsurface soil. The depth of surface soil contamination is assumed to extend to 2 feet below ground surface (bgs). The depth of subsurface soil contamination is assumed to extend from 2 feet bgs to the groundwater table, which at PSC 47 occurs at approximately 5 feet bgs.

- The bulk density of excavated PSC 47 soil is assumed to be 1.5 tons per cubic yard (yd^3).

2.0 COMPUTATIONS OF SOIL EXCEEDING PRGs

2.1. Surface Soil

As shown on attached Figure 9-1, 3 areas of surface soil were identified as containing soil with concentrations of COCs greater than the PRGs. The surface areas, depth, and volume of these areas can be computed as follows:

.

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)	Bulk Weight (tons)
1	88,424	2	176,848 / 6,550	9,825
2	3,271	2	6,542 / 242	363
3	717	2	1,434 / 53	79
Total	**92,412**	**2**	**184,824 / 6,845**	**10,267**

2.2 Subsurface Soil

As shown on attached Figure 9-2, 4 areas of subsurface soil were identified as containing soil with concentrations of COCs greater than the PRGs. The surface areas, depth, and volume of these areas can be computed as follows:

.

Area	Surface Area	Depth	Volume	Bulk Weight

	(ft^2)	(ft)	(ft^3/yd^3)	(tons)
1	36,354	3	109,062 / 4,039	6,058
2	7,178	3	21,534 / 798	1,197
3	17,124	3	51,372 / 1,903	2,854
4	5,742	3	17,226 / 638	957
Total	**66,398**	**3**	**199,194 / 7,378**	**11,066**

2.3 Totals

The estimated total volume of soil exceeding PRGs is:
6,845 + 7,378 = 14,223, say 14,250 yd^3
The estimated total weight of soil exceeding PRGs is:
10,267 + 11,066 = 21,333, say 21,350 tons

3.0 COMPUTATIONS OF SOIL EXCEEDING INDUSTRIAL AND/OR LEACHABILITY SCTLs

3.1. Surface Soil

As shown on attached Figure 9-3, 5 areas of surface soil were identified as containing soil with concentrations of COCs greater than their industrial and/or leachability SCTLs. The surface areas, depth, and volume of these areas can be computed as follows:

.

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)	Bulk Weight (tons)
1	1,117	2	2,234 / 83	124
2	2,167	2	4,334 / 160	240
3	24,812	2	49,624 / 1,838	2,757
4	40,771	2	81,542 / 3,020	4,530
5	382	2	764 / 28	42
Total	**69,249**	**2**	**138,498 / 5,129**	**7,693**

3.2 Subsurface Soil

As shown on attached Figure 9-4, 5 areas of subsurface soil were identified as containing soil with concentrations of COCs greater than their industrial and/or leachability SCTLs. The surface areas, depth, and volume of these areas can be computed as follows:

.

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)	Bulk Weight (tons)
1	24,500	3	73,500 / 2,722	4,083
2	9,698	3	29,094 / 1,078	1,617
3	11,879	3	35,637 / 1,320	1,980
4	5,001	3	15,003 / 556	834
5	951	3	2,853 / 106	150
Total	**52,029**	**3**	**156,087 / 5,782**	**8,664**

3.3 Totals

The estimated total volume of soil exceeding industrial and/or leachability SCTLs is:
5,129 + 5,782 = 10,911, say 10,900 yd^3
The estimated total weight of soil exceeding industrial and/or leachability SCTLs is:
7,693 + 8,664 = 16,357, say 16,350 tons

4.0 COMPUTATIONS OF SOIL EXCEEDING INDUSTRIAL SCTLs (RCRA-HAZARDOUS)

4.1. Surface Soil

As shown on attached Figure 10-1X, 3 areas of surface soil were identified as containing soil with concentrations of COCs greater than the industrial SCTLs. The surface areas, depth, and volume of these areas can be computed as follows:

.

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)	Bulk Weight (tons)
1	12,839	2	25,678 / 951	1,426
2	32,261	2	64,522 / 2,390	3,585
3	382	2	764 / 28	42
Total	**45,482**	**2**	**90,964 / 3,369**	**5,053**

4.2 Subsurface Soil

As shown on attached Figure 10-4X, 5 areas of subsurface soil were identified as containing soil with concentrations of COCs greater than the industrial SCTLs. The surface areas, depth, and volume of these areas can be computed as follows:

.

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)	Bulk Weight (tons)
1	9,698	3	29,094 / 1,078	1,617
2	15,963	3	47,889 / 1,774	2,661
3	4,139	3	12,417 / 460	690
4	812	3	2,436 / 90	135
5	951	3	2,853 / 106	159
Total	**31,562**	**3**	**94,689 / 3,508**	**5,262**

4.3 Totals

The estimated total volume of soil exceeding industrial SCTLs is:
3,369 + 3,508 = 6,877, say 6,900 yd^3
The estimated total weight of soil exceeding industrial SCTLs is:
5,053 + 5,262 = 10,315, say 10,300 tons

1.0 REMEDIAL APPROACH

- Areas of the site with concentrations of soil COCs greater than the industrial and/or leachability SCTLs will be capped with a 2-foot thick impervious cover system to allow industrial exposure and to prevent leaching of soil COCs to groundwater.
- To maintain the current topography of the site and to allow unimpeded access to existing buildings, surface preparation of the areas to be capped will require excavation to a depth equal to the thickness of the cap.
- Because the planned thickness of the cap is 2 feet, pre-excavation will result in the removal of all surface soil exceeding industrial and/or leachability SCTLs, leaving only subsurface soil with concentrations of COCs greater than industrial and/pr leachability SCTLs to be capped.
- The areas to be capped will be covered with a 2-foot thick layer of compacted soil with a permeability of 10^{-6} centimeters per second (cm/sec).
- The pre-excavated areas that do not require capping will be backfilled with clean fill.
- The capped and backfilled areas will be re-vegetated or re-paved to match original surface conditions.

2.0 VOLUMES COMPUTATIONS

2.1. Site Preparation Excavation

As shown on attached Figure 11-1, 3 areas of surface soil will need to be excavated as part of site preparation. The surface areas, depth, and volume of these areas can be computed as follows:

.

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)
1	83,600	2	167,200 / 6,193
2	951	2	1,902 / 70
3	382	2	764 / 28
Total	**85,133**	**2**	**169,866 / 6,291**

2.2 Soil Capping

As shown on attached Figure 11-2, 5 areas of subsurface soil were identified as containing soil with concentrations of COCs greater than industrial and/or leachability SCTLs and need to be capped. The surfaces of areas to be capped and volumes of capping material can be computed as follows:

.

Area	Surface to be Capped (ft^2)	Cap Thickness (ft)	Volume of Cap Material (ft^3/yd^3)
1	24,500	2	49,000 / 1,815
2	9,698	2	19,396 / 718
3	11,879	2	23,758 / 880
4	5,001	2	10,002 / 370
5	951	2	1,902 / 70
Total	**52,029**	**2**	**104,058 / 3,853**

2.3 Total Excavation and Disposal Volumes

Estimated total volume of soil to be excavated is:
6,291, say 6,300yd^3

Estimated total volume of uncontaminated excavated soil:
6,300 yd^3 – 5,150yd^3 (from Appendix) = 1,150 yd^3 or 1,725 tons

Estimated total volume of RCRA non-hazardous excavated soil (from Appendix):
5,150 yd^3 – 3,350 yd^3 = 1,800 yd^3 or 2,700 tons

Estimated total volume of RCRA hazardous excavated soil (from Appendix):
3,350 yd^3 or 5,025 tons

2.4 Backfilling and Site Restoration

The estimated total volume of required clean backfill is:
6,291 - 3,853 = 2,438, say 2,450 yd^3
Imported clean backfill required:
2,450 – 1,150 = 1,300 yd^3
As per Figure 11-1, surface to be re-paved is 20,068 ft^2
Therefore, surface to be re-vegetated is:
85,133 – 20,068 = 65,065 ft^2
Volume of required top soil @ 6-inch thickness:
65,065 x 0.5 = 32,532 ft^3, or 1,205 yd^3

NAS JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative S-2: Capping to Allow Industrial Exposure and Prevent Leaching, LUCs, and Monitoring
Capital Cost

5/23/2007 8:20 AM

Item	Quantity	Unit	Unit Cost				Extended Cost				Subtotal
			Subcontract	Material	Labor	Equipment	Subcontract	Material	Labor	Equipment	
1 PROJECT PLANNING											
1.1 Prepare Construction/Work Plans	300	hr			$35.00		$0	$0	$10,500	$0	$10,500
2 INITIAL CHARACTERIZATION											
2.1 Field Construction Mgt. (1 person)	5	day		$190.00	$355.00		$0	$950	$1,775	$0	$2,725
2.2 Sample Collection (2 persons for 5 days)	1	ls			$6,000.00	$1,930.00	$0	$0	$6,000	$1,930	$7,930
2.3 Soil Sampling (SVOCs, pesticides, arsenic)	40	ea	$543.00	$10.00			$21,720	$400	$0	$0	$22,120
3 MOBILIZATION, DEMOBILIZATION AND FIELD SUPPORT											
3.1 Office Trailer	3	mo				$375.00	$0	$0	$0	$1,125	$1,125
3.2 Field Office Support	3	mo		$150.00			$0	$450	$0	$0	$450
3.3 Storage Trailer (1)	3	mo				$101.00	$0	$0	$0	$303	$303
3.4 Utility Connection/Disconnection (phone/electric)	1	ls	$1,500.00				$1,500	$0	$0	$0	$1,500
3.5 Site Utilities	3	mo	$150.00				$450	$0	$0	$0	$450
3.6 Underground Utility Clearances	1	ls	$9,000.00				$9,000	$0	$0	$0	$9,000
3.7 Construction Survey Support	15	day	$935.00				$14,025	$0	$0	$0	$14,025
3.8 Equipment Mobilization/Demobilization	6	ea			$158.00	$384.00	$0	$0	$948	$2,304	$3,252
3.9 Site Superintendent	70	day			$355.00		$0	$0	$24,850	$0	$24,850
3.10 Site Health & Safety and QA/QC	70	day			$325.00		$0	$0	$22,750	$0	$22,750
3.11 Materials Storage Pad, 50' by 120'	1	ls	$3,876.00	$11,153.00	$15,382.00	$3,827.00	$3,876	$11,153	$15,382	$3,827	$34,238
4 DECONTAMINATION											
4.1 Decontamination Services	2	mo		$1,100.00	$2,025.00	$1,400.00	$0	$2,200	$4,050	$2,800	$9,050
4.2 Equipment Decon Pad	1	ls		$3,500.00	$3,000.00	$425.00	$0	$3,500	$3,000	$425	$6,925
4.3 Decon Water	2,000	gal		$0.20			$0	$400	$0	$0	$400
4.4 Decon Water Storage Tank, 6,000 gallon	2	mo				$704.00	$0	$0	$0	$1,408	$1,408
4.5 Clean Water Storage Tank, 4,000 gallon	2	mo				$633.00	$0	$0	$0	$1,266	$1,266
4.6 Disposal of Decon Waste (liquid & solid)	2	mo	$950.00				$1,900	$0	$0	$0	$1,900
5 EXCAVATION AND DISPOSAL											
5.1 Excavator, 2 cy	30	day			$318.40	$994.60	$0	$0	$9,552	$29,838	$39,390
5.2 Front End Loader, 3 to 4.5 cy	30	day			$318.40	$488.00	$0	$0	$9,552	$14,640	$24,192
5.3 Site Labor, (3 laborers)	30	day			$690.00		$0	$0	$20,700	$0	$20,700
5.4 Characterization/Offsite Disposal Soil Testing	52	ea	$543.00	$10.00			$28,236	$520	$0	$0	$28,756
5.5 Off Site Disposal, Non-Hazardous	4,150	ton	$30.00				$124,500	$0	$0	$0	$124,500
5.6 Off Site Disposal, Hazardous	1,000	ton	$250.00				$250,000	$0	$0	$0	$250,000
6 SITE RESTORATION											
6.1 Select Fill	2,450	cy		$12.00			$0	$29,400	$0	$0	$29,400
6.2 Low Perm Soil	3,852	cy		$23.50			$0	$90,522	$0	$0	$90,522
6.3 Topsoil (loam)	1,206	cy		$24.93			$0	$30,066	$0	$0	$30,066
6.4 Asphalt, 2" thick	20,100	sf	$0.81				$16,281		$0	$0	$16,281
6.5 Seeding Disturbed Areas	70	msf	$71.00				$4,970	$0	$0	$0	$4,970
6.6 Site Labor, (3 laborers)	20	day			$690.00		$0	$0	$13,800	$0	$13,800
6.7 Front End Loader, 3 to 4.5 cy	20	day			$318.40	$488.00	$0	$0	$6,368	$9,760	$16,128
6.8 Dozer, 140 hp	20	day			$318.40	$611.40	$0	$0	$6,368	$12,228	$18,596
6.9 Compactor, 125 h.p.	20	day			$318.40	$565.60	$0	$0	$6,368	$11,312	$17,680
7 POST CONSTRUCTION COST											
7.1 Contractor Completion Report	150	hr			$35.00		$0	$0	$5,250	$0	$5,250
7.2 Remedial Action Closeout Report	200	hr			$35.00		$0	$0	$7,000	$0	$7,000
7.3 Prepare LUC Document	150	hr			$35.00		$0	$0	$5,250	$0	$5,250
7.4 LUC Survey Support	1	day	$935.00				$935	$0	$0	$0	$935
Subtotal							$477,393	$169,561	$179,463	$93,166	$919,583

NAS JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative S-2: Capping to Allow Industrial Exposure and Prevent Leaching, LUCs, and Monitoring
Capital Cost

Item	Quantity	Unit	Unit Cost Subcontract	Material	Labor	Equipment	Extended Cost Subcontract	Material	Labor	Equipment	Subtotal
Local Area Adjustments							100.0%	113.5%	87.3%	87.3%	
Subtotal							$477,393	$192,451	$156,671	$81,334	$907,849
Overhead on Labor Cost @ 30%									$47,001		$47,001
G & A on Labor Cost @ 10%									$15,667		$15,667
G & A on Material Cost @ 10%								$19,245			$19,245
G & A on Equipment Cost @ 10%										$8,133	$8,133
G & A on Subcontract Cost @ 10%							$47,739				$47,739
Tax on Materials and Equipment Cost @ 6%								$11,547		$4,880	$16,427
Total Direct Cost							$525,132	$223,243	$219,340	$94,347	$1,062,063
Indirects on Total Direct Cost @ 25%	(excluding transportation and disposal cost)										$171,416
Profit on Total Direct Cost @ 10%											$106,206
Subtotal											$1,339,685
Health & Safety Monitoring @ 2%											$26,794
Total Field Cost											$1,366,478
Contingency on Total Field Costs @ 20%											$273,296
Engineering on Total Field Cost @ 5%											$68,324
TOTAL CAPITAL COST											**$1,708,098**

NAS JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative S-2: Capping to Allow Industrial Exposure and Prevent Leaching, LUCs, and Monitoring
Annual Cost

Item	Item Cost year 1	Item Cost years 2 & 3	Item Cost years 4 to 30	Item Cost every 5 years	Notes
Site Inspection: Visit	$1,860	$1,860	$1,860		One-day visit to verify LUC RD
Site Inspection: Report	$800	$800	$800		Report LUC RD
Cap Inspection	$1,860	$1,860	$1,860		Yearly inspection of cap
Cap Report	$800	$800	$800		Yearly Inspection report
Cap Repair	$6,350	$6,350		$6,350	Cap repair years 1, 2, 3, 5, 10,15, 20, 25, 30
Sampling	$34,920	$17,460	$8,730		Labor and supplies to collect samples from wells and soil using a crew of two
Analysis/Water	$3,276	$1,638	$819		Analyze groundwater samples from 5 wells for pesticides in years 1 through 30. Collect samples 4 times a year in year 1, twice a year in years 2 & 3, and once a year for years 4 through 30.
Analysis/Soil	$3,041	$3,041	$3,041		Analyze soil samples from 6 locations for SVOCs, pesticides, and arsenic in years 1 through 30. Collect samples once a year for years 1 through 30.
Report	$6,000	$3,000	$1,500		Document sampling & results
Site Review				$17,000	Site Reviews
Subtotal	$58,907	$36,809	$19,410	$23,350	
Contingency @ 10%	$5,891	$3,681	$1,941	$2,335	
TOTAL	$64,798	$40,490	$21,351	$25,685	

NAS JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative S-2: Capping to Allow Industrial Exposure and Prevent Leaching, LUCs, and Monitoring
Present Worth Analysis

Year	Capital Cost	Annual Cost	Total Year Cost	Annual Discount Rate at 7%	Present Worth
0	$1,708,098		$1,708,098	1.000	$1,708,098
1		$64,798	$64,798	0.935	$60,586
2		$40,490	$40,490	0.873	$35,348
3		$40,490	$40,490	0.816	$33,040
4		$21,351	$21,351	0.763	$16,291
5		$47,036	$47,036	0.713	$33,537
6		$21,351	$21,351	0.666	$14,220
7		$21,351	$21,351	0.623	$13,302
8		$21,351	$21,351	0.582	$12,426
9		$21,351	$21,351	0.544	$11,615
10		$47,036	$47,036	0.508	$23,894
11		$21,351	$21,351	0.475	$10,142
12		$21,351	$21,351	0.444	$9,480
13		$21,351	$21,351	0.415	$8,861
14		$21,351	$21,351	0.388	$8,284
15		$47,036	$47,036	0.362	$17,027
16		$21,351	$21,351	0.339	$7,238
17		$21,351	$21,351	0.317	$6,768
18		$21,351	$21,351	0.296	$6,320
19		$21,351	$21,351	0.277	$5,914
20		$47,036	$47,036	0.258	$12,135
21		$21,351	$21,351	0.242	$5,167
22		$21,351	$21,351	0.226	$4,825
23		$21,351	$21,351	0.211	$4,505
24		$21,351	$21,351	0.197	$4,206
25		$47,036	$47,036	0.184	$8,655
26		$21,351	$21,351	0.172	$3,672
27		$21,351	$21,351	0.161	$3,438
28		$21,351	$21,351	0.15	$3,203
29		$21,351	$21,351	0.141	$3,010
30		$47,036	$47,036	0.131	$6,162
				TOTAL PRESENT WORTH	**$2,101,368**

1.0 REMEDIAL APPROACH

- Areas of the site with concentrations of soil COCs greater than the industrial SCTLs will be excavated and disposed off-site to allow industrial exposure.
- Areas of the site with concentrations of soil COCs greater than the leachability SCTLs will be capped with a 2-foot thick impervious cover system to prevent leaching of soil COCs to groundwater.
- To maintain the current topography of the site and to allow unimpeded access to existing buildings, surface preparation of the areas to be capped will require excavation to a depth equal to the thickness of the cap.
- Because the planned thickness of the cap is 2 feet, pre-excavation will result in the removal of all surface soil exceeding industrial and/or leachability SCTLs, leaving only subsurface soil with concentrations of COCs greater than industrial to be further excavated and subsurface soil with concentrations of COCs greater than leachability SCTLs to be capped.
- The areas to be capped will be covered with a 2-foot thick layer of compacted soil with a permeability of 10^{-6} centimeters per second (cm/sec).
- The excavated areas that do not require capping will be backfilled with clean fill.
- The capped and backfilled areas will be re-vegetated or re-paved to match original surface conditions.

2.0 VOLUMES COMPUTATIONS

2.1. Site Preparation Excavation

As shown on attached Figure 11-1, 3 areas of surface soil will need to be excavated as part of site preparation. The surface areas, depth, and volume of these areas can be computed as follows:

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)
1	83,800	2	167,200 / 6,193
2	951	2	1,902 / 70
3	382	2	764 / 28
Total	**85,133**	**2**	**169,866 / 6,291**

.

2.2 Subsurface Soil Excavation

As shown on attached Figure 11-3, 5 areas of subsurface soil exceeding industrial SCTLs will need to be excavated. The surface areas, depth, and volume of these areas can be computed as follows:

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)
1	9,698	3	29,094 / 1,078

2	15,963	3	47,889 / 1,774
3	4,139	3	12,417 / 460
4	812	3	2,436 / 90
5	951	3	2,853 / 106
Total	**31,562**	**3**	**94,689 / 3,508**

2.3 Soil Capping

As shown on attached Figure 11-3, 4 areas of subsurface soil that exceed leachability SCTLs and were not excavated will need to be capped. The surfaces of areas to be capped and volumes of capping material can be computed as follows:

.

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)
1	7,708	2	15,416 / 571
2	829	2	1,658 / 61
3	5,001	2	10,002 / 370
4	6,927	2	13,854 / 513
Total	**20,464**	**2**	**40,140 / 1,515**

2.4 Total Excavation and Disposal Volumes

Estimated total volume of soil to be excavated is:
6,291 + 3,508 = 9,799, say 9,800yd^3

Estimated total volume of uncontaminated excavated soil (same as Alternative S-2):
6,300 yd^3 – 5,150yd^3 (from Appendix) = 1,150 yd^3 or 1,725 tons

Estimated total volume of RCRA non-hazardous excavated soil (from Appendix):
9,800 yd^3 – (6,900 + 1,150) yd^3 = 1,750 yd^3 or 2,625 tons

Estimated total volume of RCRA hazardous excavated soil (from Appendix):
6,900 yd^3 or 10,350 tons

2.5 Backfilling and Site Restoration

The estimated total volume of required clean backfill is:
9,800 yd^3 excavated - (1,150 yd^3 non-cont + 1,500 yd^3 cap) = 7,150 yd^3 or 10,725 tons
As per Figure 11-1, surface to be re-paved is 20,068 ft^2
Therefore, surface to be re-vegetated is:
85,133 – 20,068 = 65,065 ft^2
Volume of required top soil @ 6-inch thickness:
65,065 x 0.5 = 32,532 ft^3, or 1,205 yd^3

NAS JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative S-3: Excavation & Off-Site Disposal to Allow Industrial Exposure, Capping to Prevent Leaching, LUCs, and Monitoring
Annual Cost

Item	Item Cost year 1	Item Cost years 2 & 3	Item Cost years 4 to 30	Item Cost every 5 years	Notes
Site Inspection: Visit	$1,860	$1,860	$1,860		One-day visit to verify LUC RD
Site Inspection: Report	$800	$800	$800		Report LUC RD
Cap Inspection	$1,860	$1,860	$1,860		Yearly inspection of cap
Cap Report	$800	$800	$800		Yearly Inspection report
Cap Repair	$6,350	$6,350		$6,350	Cap repair years 1, 2, 3, 5, 10,15, 20, 25, 30
Sampling	$18,120	$9,060	$4,530		Labor and supplies to collect samples from wells using a crew of two
Analysis/Water	$3,276	$1,638	$819		Analyze groundwater samples from 5 wells for pesticides in years 1 through 30. Collect samples 4 times a year in year 1, twice a year in years 2 & 3, and once a year for years 4 through 30.
Report	$6,000	$3,000	$1,500		Document sampling & results
Site Review				$17,000	Site Reviews
Subtotal	$39,066	$25,368	$12,169	$23,350	
Contingency @ 10%	$3,907	$2,537	$1,217	$2,335	
TOTAL	$42,973	$27,905	$13,386	$25,685	

NAS JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative S-3: Excavation & Off-Site Disposal to Allow Industrial Exposure, Capping to Prevent Leaching, LUCs, and Monitoring
Present Worth Analysis

Year	Capital Cost	Annual Cost	Total Year Cost	Annual Discount Rate at 7%	Present Worth
0	$2,597,778		$2,597,778	1.000	$2,597,778
1		$42,973	$42,973	0.935	$40,179
2		$27,905	$27,905	0.873	$24,361
3		$27,905	$27,905	0.816	$22,770
4		$13,386	$13,386	0.763	$10,213
5		$39,071	$39,071	0.713	$27,858
6		$13,386	$13,386	0.666	$8,915
7		$13,386	$13,386	0.623	$8,339
8		$13,386	$13,386	0.582	$7,791
9		$13,386	$13,386	0.544	$7,282
10		$39,071	$39,071	0.508	$19,848
11		$13,386	$13,386	0.475	$6,358
12		$13,386	$13,386	0.444	$5,943
13		$13,386	$13,386	0.415	$5,555
14		$13,386	$13,386	0.388	$5,194
15		$39,071	$39,071	0.362	$14,144
16		$13,386	$13,386	0.339	$4,538
17		$13,386	$13,386	0.317	$4,243
18		$13,386	$13,386	0.296	$3,962
19		$13,386	$13,386	0.277	$3,708
20		$39,071	$39,071	0.258	$10,080
21		$13,386	$13,386	0.242	$3,239
22		$13,386	$13,386	0.226	$3,025
23		$13,386	$13,386	0.211	$2,824
24		$13,386	$13,386	0.197	$2,637
25		$39,071	$39,071	0.184	$7,189
26		$13,386	$13,386	0.172	$2,302
27		$13,386	$13,386	0.161	$2,155
28		$13,386	$13,386	0.15	$2,008
29		$13,386	$13,386	0.141	$1,887
30		$39,071	$39,071	0.131	$5,118
		11350			
		1625		**TOTAL PRESENT WORTH**	**$2,871,446**

1.0 REMEDIAL APPROACH

- Areas of the site with concentrations of soil COCs greater than the residential and/or leachability SCTLs will be excavated and disposed off-site to allow residential exposure and to prevent leaching of soil COCs to groundwater.

- The excavated areas will be backfilled with clean fill. and re-vegetated or re-paved to match original surface conditions.

2.0 VOLUMES COMPUTATIONS

2.1. Surface Soil Excavation

As shown on attached Figure 11-4, 3 areas of surface soil were identified as containing soil with concentrations of COCs greater than the PRGs. The surface areas, depth, and volume of these areas can be computed as follows:

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)
1	103,364	2	206,728 / 7,657
2	6,375	2	12,750 / 472
3	717	2	1,434 / 53
Total	**110,456**	**2**	**220,912 / 8,182**

2.2 Subsurface Soil Excavation

As shown on attached Figure 11-5, 4 areas of subsurface soil were identified as containing soil with concentrations of COCs greater than the PRGs. The surface areas, depth, and volume of these areas can be computed as follows:

Area	Surface Area (ft^2)	Depth (ft)	Volume (ft^3/yd^3)
1	36,354	3	109,062 / 4,039
2	7,178	3	21,534 / 798
3	17,124	3	51,372 / 1,903
4	5,742	3	17,226 / 638
Total	**66,398**	**3**	**199,194 / 7,378**

2.3 Total Excavation and Disposal Volumes

Estimated total volume of soil to be excavated is:
8,182 + 7,378 = 15,560, say 15,550 yd^3

Estimated total volume of uncontaminated excavated soil:
15,550 yd^3 – 14,250 yd^3 (from Appendix) = 1,300 yd^3 or 1,950 tons

Estimated total volume of RCRA non-hazardous excavated soil (from Appendix):
14,250 yd^3 – 6,900 yd^3 = 7,350 yd^3 or 11,025 tons

Estimated total volume of RCRA hazardous excavated soil (from Appendix):
6,900 yd^3 or 10,350 tons

2.4 Backfilling and Site Restoration

The estimated total volume of required clean backfill is:
15,550 – 1,300 = 14,250 yd^3
As per Figure 11-4, surface to be re-paved is 26,784 ft^2
Therefore, surface to be re-vegetated is:
109,822 – 26,784 = 83,038 ft^2
Volume of required top soil @ 6-inch thickness:
83,038 x 0.5 = 41,519 ft^3, or 1,538 yd^3

NAS JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative S-4: Excavation & Off-Site Disposal to Allow Residential Exposure and Prevent Leaching
Capital Cost

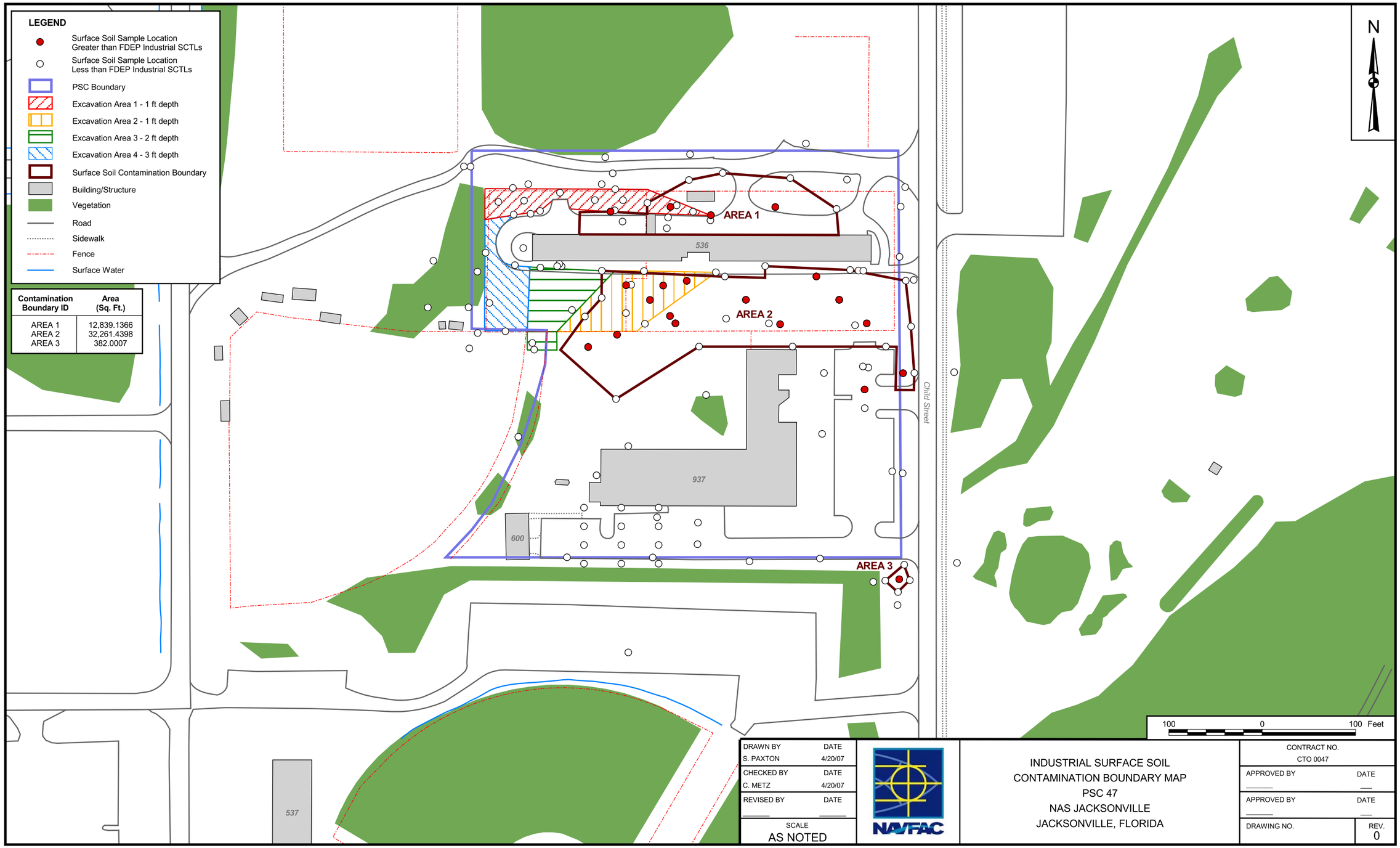
5/23/2007 11:47 AM

Item	Quantity	Unit	Unit Cost				Extended Cost				
			Subcontract	Material	Labor	Equipment	Subcontract	Material	Labor	Equipment	Subtotal
1 PROJECT PLANNING											
1.1 Prepare Construction/Work Plans	300	hr			$35.00		$0	$0	$10,500	$0	$10,500
2 INITIAL CHARACTERIZATION											
2.1 Field Construction Mgt. (1 person)	5	day		$190.00	$355.00		$0	$950	$1,775	$0	$2,725
2.2 Sample Collection (2 persons for 5 days)	1	ls			$6,000.00	$1,930.00	$0	$0	$6,000	$1,930	$7,930
2.3 Soil Sampling (SVOCs, pesticides, arsenic)	40	ea	$543.00	$10.00			$21,720	$400	$0	$0	$22,120
3 MOBILIZATION, DEMOBILIZATION AND FIELD SUPPORT											
3.1 Office Trailer	6	mo				$375.00	$0	$0	$0	$2,250	$2,250
3.2 Field Office Support	6	mo		$150.00			$0	$900	$0	$0	$900
3.3 Storage Trailer (1)	6	mo				$101.00	$0	$0	$0	$606	$606
3.4 Utility Connection/Disconnection (phone/electric)	1	ls	$1,500.00				$1,500	$0	$0	$0	$1,500
3.5 Site Utilities	6	mo	$150.00				$900	$0	$0	$0	$900
3.6 Underground Utility Clearances	1	ls	$9,000.00				$9,000	$0	$0	$0	$9,000
3.7 Construction Survey Support	20	day	$935.00				$18,700	$0	$0	$0	$18,700
3.8 Equipment Mobilization/Demobilization	6	ea			$158.00	$384.00	$0	$0	$948	$2,304	$3,252
3.9 Site Superintendent	132	day			$355.00		$0	$0	$46,860	$0	$46,860
3.10 Site Health & Safety and QA/QC	132	day			$325.00		$0	$0	$42,900	$0	$42,900
3.11 Materials Storage Pad, 50' by 120'	1	ls	$3,876.00	$11,153.00	$15,382.00	$3,827.00	$3,876	$11,153	$15,382	$3,827	$34,238
4 DECONTAMINATION											
4.1 Decontamination Services	4	mo		$1,100.00	$2,025.00	$1,400.00	$0	$4,400	$8,100	$5,600	$18,100
4.2 Equipment Decon Pad	1	ls		$3,500.00	$3,000.00	$425.00	$0	$3,500	$3,000	$425	$6,925
4.3 Decon Water	4,000	gal		$0.20			$0	$800	$0	$0	$800
4.4 Decon Water Storage Tank, 6,000 gallon	4	mo				$704.00	$0	$0	$0	$2,816	$2,816
4.5 Clean Water Storage Tank, 4,000 gallon	4	mo				$633.00	$0	$0	$0	$2,532	$2,532
4.6 Disposal of Decon Waste (liquid & solid)	4	mo	$950.00				$3,800	$0	$0	$0	$3,800
5 EXCAVATION AND DISPOSAL											
5.1 Shore Building Foundation (600 lf by 8 feet deep)	4,800	sf	$8.30				$39,840	$0	$0	$0	$39,840
5.2 Excavator, 2 cy	78	day			$318.40	$994.60	$0	$0	$24,835	$77,579	$102,414
5.3 Front End Loader, 3 to 4.5 cy	78	day			$318.40	$488.00	$0	$0	$24,835	$38,064	$62,899
5.4 Site Labor, (3 laborers)	78	day			$690.00		$0	$0	$53,820	$0	$53,820
5.5 Characterization/Offsite Disposal Soil Testing	143	ea	$543.00	$10.00			$77,649	$1,430	$0	$0	$79,079
5.6 Off Site Disposal, Non-Hazardous	19,750	ton	$30.00				$592,500	$0	$0	$0	$592,500
5.7 Off Site Disposal, Hazardous	1,625	ton	$250.00				$406,250	$0	$0	$0	$406,250
6 SITE RESTORATION											
6.1 Select Fill	15,550	cy		$12.00			$0	$186,600	$0	$0	$186,600
6.2 Topsoil (loam)	1,537	cy		$24.93			$0	$38,317	$0	$0	$38,317
6.3 Asphalt, 2" thick	26,800	sf	$0.81				$21,708		$0	$0	$21,708
6.4 Seeding Disturbed Areas	85	msf	$71.00				$6,035	$0	$0	$0	$6,035
6.5 Site Labor, (3 laborers)	35	day			$690.00		$0	$0	$24,150	$0	$24,150
6.6 Front End Loader, 3 to 4.5 cy	35	day			$318.40	$488.00	$0	$0	$11,144	$17,080	$28,224
6.7 Dozer, 140 hp	35	day			$318.40	$611.40	$0	$0	$11,144	$21,399	$32,543
6.8 Compactor, 125 h.p.	35	day			$318.40	$565.60	$0	$0	$11,144	$19,796	$30,940
7 POST CONSTRUCTION COST											
7.1 Contractor Completion Report	150	hr			$35.00		$0	$0	$5,250	$0	$5,250
7.2 Remedial Action Closeout Report	200	hr			$35.00		$0	$0	$7,000	$0	$7,000
Subtotal							$1,203,478	$248,450	$308,787	$196,208	$1,956,924

NAS JACKSONVILLE
Jacksonville, Florida
PSC 47 RI/FS
Alternative S-4: Excavation & Off-Site Disposal to Allow Residential Exposure and Prevent Leaching
Capital Cost

Item	Quantity	Unit	Unit Cost Subcontract	Material	Labor	Equipment	Extended Cost Subcontract	Material	Labor	Equipment	Subtotal
Local Area Adjustments							100.0%	113.5%	87.3%	87.3%	
Subtotal							$1,203,478	$281,991	$269,571	$171,289	$1,926,330
Overhead on Labor Cost @ 30%									$80,871		$80,871
G & A on Labor Cost @ 10%									$26,957		$26,957
G & A on Material Cost @ 10%								$28,199			$28,199
G & A on Equipment Cost @ 10%										$17,129	$17,129
G & A on Subcontract Cost @ 10%							$120,348				$120,348
Tax on Materials and Equipment Cost @ 6%								$16,919		$10,277	$27,197
Total Direct Cost							$1,323,826	$327,110	$377,400	$198,696	$2,227,031
Indirects on Total Direct Cost @ 25%	(excluding transportation and disposal cost)										$306,120
Profit on Total Direct Cost @ 10%											$222,703
Subtotal											$2,755,855
Health & Safety Monitoring @ 2%											$55,117
Total Field Cost											$2,810,972
Contingency on Total Field Costs @ 20%											$562,194
Engineering on Total Field Cost @ 5%											$140,549
TOTAL CAPITAL COST											**$3,513,715**

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR INDUSTRIAL SURFACE SOIL CONTAMINATION BOUNDARY LAYOUT 4/20/07 SP



DRAWN BY	DATE
S. PAXTON	4/20/07
CHECKED BY	DATE
C. METZ	4/20/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

INDUSTRIAL SURFACE SOIL
CONTAMINATION BOUNDARY MAP
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

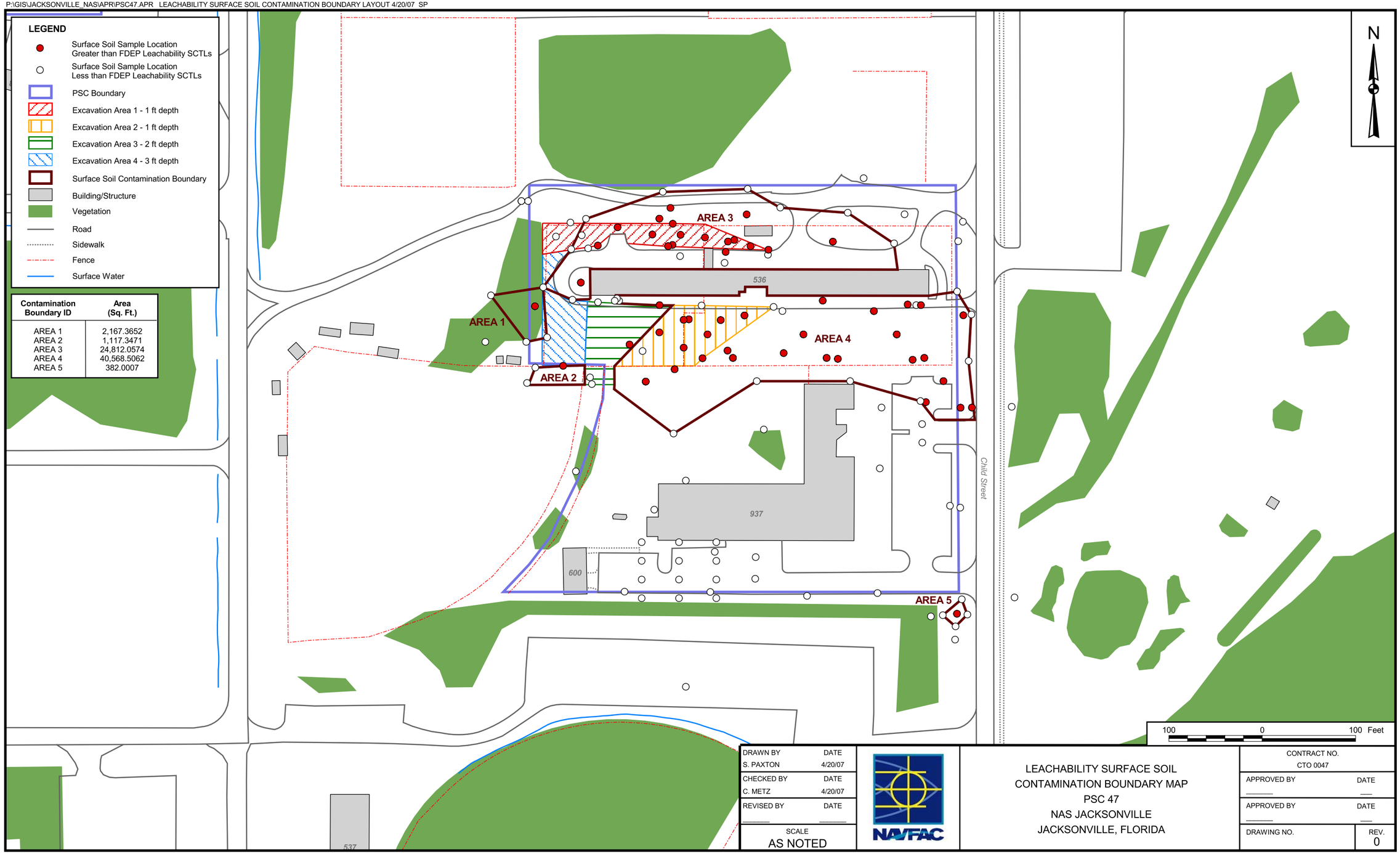
CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REV. 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR LEACHABILITY SURFACE SOIL CONTAMINATION BOUNDARY LAYOUT 4/20/07 SP

LEGEND

- Surface Soil Sample Location Greater than FDEP Leachability SCTLs
- Surface Soil Sample Location Less than FDEP Leachability SCTLs
- PSC Boundary
- Excavation Area 1 - 1 ft depth
- Excavation Area 2 - 1 ft depth
- Excavation Area 3 - 2 ft depth
- Excavation Area 4 - 3 ft depth
- Surface Soil Contamination Boundary
- Building/Structure
- Vegetation
- Road
- Sidewalk
- Fence
- Surface Water

Contamination Boundary ID	Area (Sq. Ft.)
AREA 1	2,167.3652
AREA 2	1,117.3471
AREA 3	24,812.0574
AREA 4	40,568.5062
AREA 5	382.0007



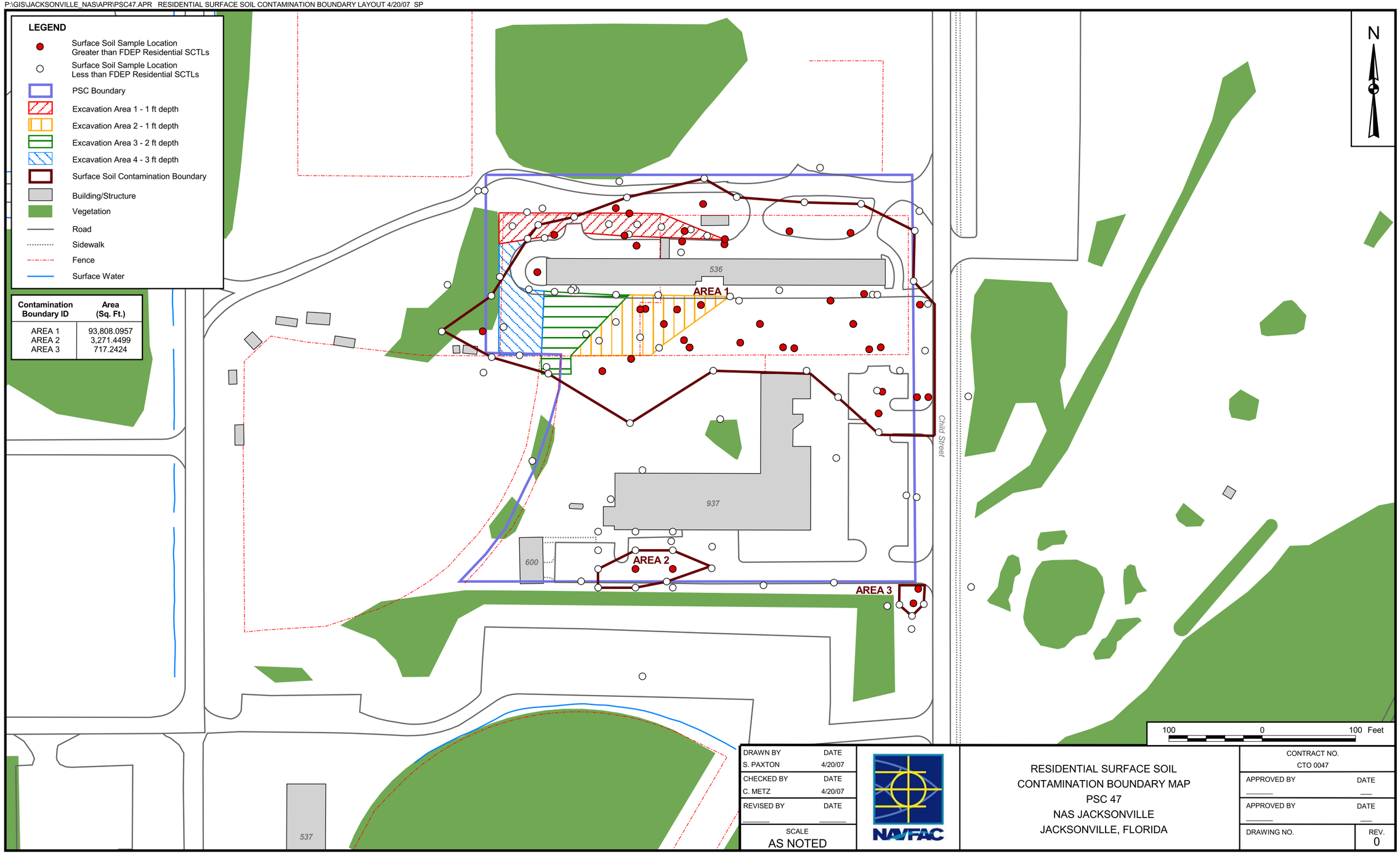
DRAWN BY	DATE
S. PAXTON	4/20/07
CHECKED BY	DATE
C. METZ	4/20/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

LEACHABILITY SURFACE SOIL
CONTAMINATION BOUNDARY MAP
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REV. 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR RESIDENTIAL SURFACE SOIL CONTAMINATION BOUNDARY LAYOUT 4/20/07 SP



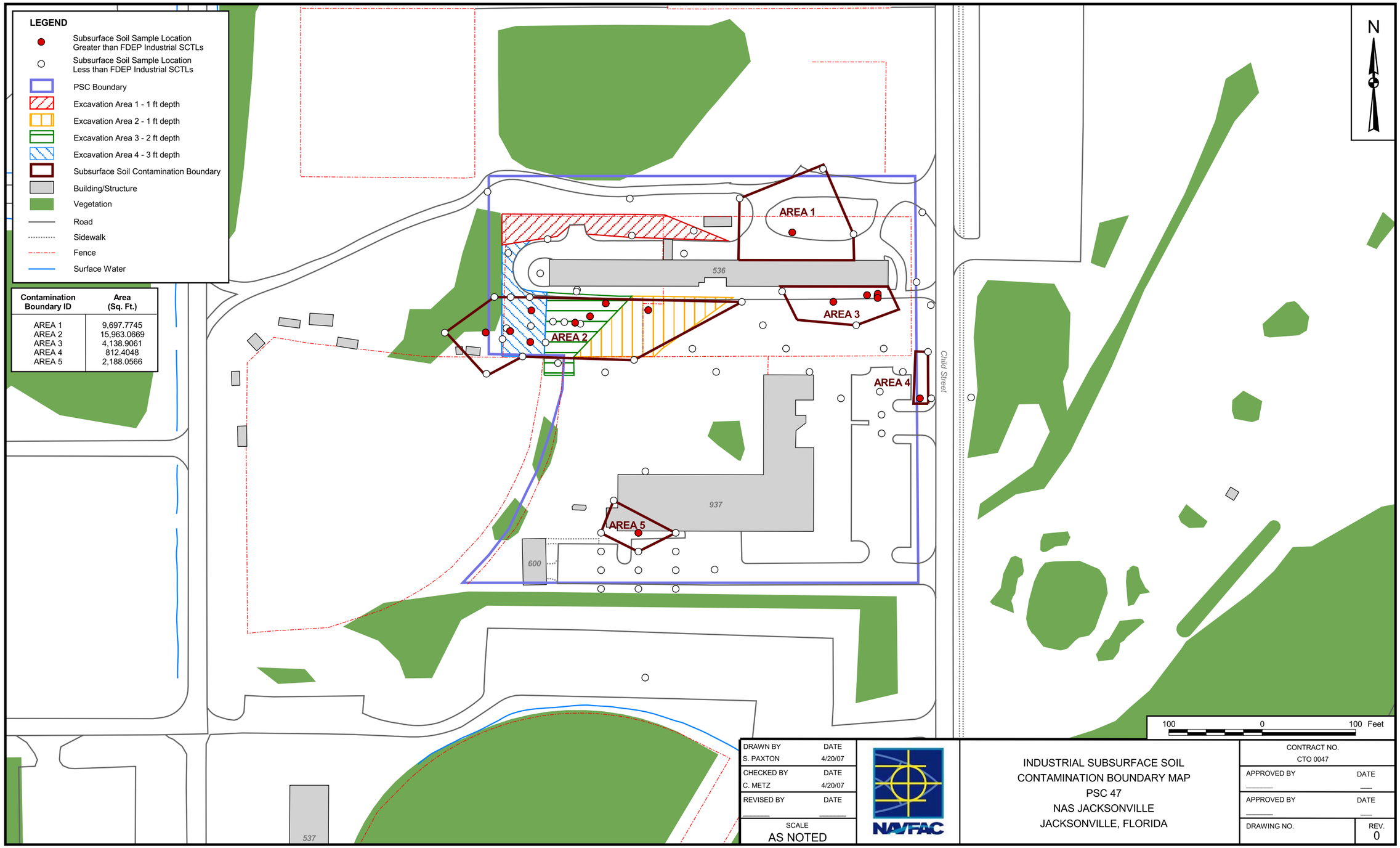
DRAWN BY	DATE
S. PAXTON	4/20/07
CHECKED BY	DATE
C. METZ	4/20/07
REVISED BY	DATE
SCALE	AS NOTED

NAVFAC

RESIDENTIAL SURFACE SOIL
CONTAMINATION BOUNDARY MAP
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	CTO 0047
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REV. 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR INDUSTRIAL SUBSURFACE SOIL CONTAMINATION BOUNDARY LAYOUT 4/20/07 SP



Contamination Boundary ID	Area (Sq. Ft.)
AREA 1	9,697.7745
AREA 2	15,963.0669
AREA 3	4,138.9061
AREA 4	812.4048
AREA 5	2,188.0566

DRAWN BY: S. PAXTON	DATE: 4/20/07
CHECKED BY: C. METZ	DATE: 4/20/07
REVISED BY:	DATE:
SCALE: AS NOTED	

NAVFAC

INDUSTRIAL SUBSURFACE SOIL CONTAMINATION BOUNDARY MAP
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. CTO 0047	
APPROVED BY:	DATE:
APPROVED BY:	DATE:
DRAWING NO.	REV. 0

P:\GIS\JACKSONVILLE_NAS\APR\PSC47.APR LEACHABILITY SUBSURFACE SOIL CONTAMINATION BOUNDARY LAYOUT 4/20/07 SP

LEGEND

- Subsurface Soil Sample Location Greater than FDEP Leachability SCTLs
- Subsurface Soil Sample Location Less than FDEP Leachability SCTLs
- PSC Boundary
- Excavation Area 1 - 1 ft depth
- Excavation Area 2 - 1 ft depth
- Excavation Area 3 - 2 ft depth
- Excavation Area 4 - 3 ft depth
- Subsurface Soil Contamination Boundary
- Building/Structure
- Vegetation
- Road
- Sidewalk
- Fence
- Surface Water

Contamination Boundary ID	Area (Sq. Ft.)
AREA 1	23,428.2670
AREA 2	5,001.2497
AREA 3	9,831.4003

AREA 1
AREA 2
AREA 3
536
937
600
537
Child Street
N
100 0 100 Feet

DRAWN BY S. PAXTON	DATE 4/20/07
CHECKED BY C. METZ	DATE 4/20/07
REVISED BY	DATE
SCALE AS NOTED	

NAVFAC

LEACHABILITY SUBSURFACE SOIL CONTAMINATION BOUNDARY MAP
PSC 47
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO. CTO 0047	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REV. 0